**General**

**Name**

ICom UHF Transceiver, Portable; IC-F40GS/IC-F40GT

**ID# 51**

**Model Number(s)**

IC-F40GS  IC-F40GT

**Technology**

Portable, conventional; trunking capable with optional accessory board

**Manufacturer**

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C–90029
Bellevue, Washington 98009–9029

POC: Mr. Ron Spencer
425–454–8155 (Tel)
425–454–1509 (Fax)

**Secure Communication Capability**

Yes, scrambling or rolling code

**Availability**

Available

**Frequency Range**

400 MHz to 430 MHz, 450 MHz to 490 MHz, 480 MHz to 512 MHz

**Number of Personnel Supported by System**

Unlimited

**Geographic Coverage**

50+ with repeater; 12 mi line of sight

**Current User(s)**

Not specified

**Source**

ICOM

**Operational Parameters**

**Number of Channels**

256 memory channels, 12 character names, up to 16 banks

**Transmitter Power Output Levels**

Hi: 5 W VHF and 4 W UHF

**Battery Options**

AA battery case, 1100 mAh NiCad, 1650 mAh NiMHD

**Battery Recharging Options**

DTC charger, rapid charger, 6–unit charger, and charger adapter

**Physical Parameters**

**Size**

2.4 in x 5.5 in x 1.7 in

**Weight**

24 oz

**Power Requirements**

7.2 V dc

**External Power**

Yes, ac and AD adapters
**Available Accessories**

- **Speaker-Microphones**: Cell-phone type speaker-microphone
- **Carrying Cases**: Yes
- **Battery Eliminators**: No
- **Vehicle Adapters**: Yes

**Logistical Parameters**

- **Programming**: Dealer/User (authorized technician) programmable
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Rugged construction, backlit keypad, 1550 NiMH battery standard, and one-piece aluminum die-cast chassis. Meets Mil-Std requirements and strict environmental standards.

**Environmental Conditions**

- **Unit Cost**: Greater than $500 but less than $1K per unit
- **Battery Cycle Life**: Not specified
- **Rapid Charge Battery Cycle Life**: Rapid desktop and multi-charger
- **Maintenance Cost**: Not specified
- **Interface Capability**: Data communications

**Special Requirements**

- **Operator Skills Required**: Minimal
- **Operator Training Requirements**: Minimal
- **Training Available**: Yes
- **Manuals Available**: Yes
- **Applicable Regulations**: Not specified
- **Support Equipment**: Chargers, battery pack, speaker-microphones, ac adapter for use with charger, speaker-microphone, case, keypad, SmarTrunk II™ and Logic Board

- **Warranty**: 2 yr
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- **Intrinsically Safe**: Pending
**General**

**Name**
Icom UHF Transceiver, Portable;
IC-F40LT Land Use;
IC-F40M/IC-F40LT Marine Version

**ID# 52**

**Model Number(s)**
IC-F40LT (Land Use)
IC-F40M/IC-F40LTM (Marine Version)

**Technology**
Portable, conventional; trunking capable with optional accessory board

**Manufacturer**
ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C–90029
Bellevue, Washington 98009–9029

POC: Mr. Ron Spencer
425–454–8155 (Tel)
425–454–1509 (Fax)

(Land) Yes, simple inversion or rolling code.
(Marine) Yes, with optional accessory. Voice scrambler units, nonrolling type and rolling type.

**Secure Communication Capability**

**Availability**
Available

**Frequency Range**
400 MHz to 430 MHz, 430 MHz to 470 MHz,
470 MHz to 520 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
10 mi

**Current User(s)**
Not specified

**Source**
ICOM

**Operational Parameters**

**Number of Channels**
Marine: up to 83; LMR: up to 16

**Transmitter Power Output Levels**
Hi: 5 W; low: 1 W

**Battery Options**
Batteries (6 AA)
NiCad, 7.2 V/1100 mAh
NiCad battery pack for Intrinsically safe operation,
NiMH, 7.2 V/1650 mAh

**Battery Recharging Options**
Desktop charger, and multi-charger

**Physical Parameters**

**Size**
2.4 in x 5.5 in x 1.7 in
### Weight
17.6 oz

### Power Requirements
7.2 V dc

### External Power
No

### Available Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Speaker-microphone provides convenient, lightweight operation while hanging the transceiver on a belt</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Yes</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>No</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>No</td>
</tr>
</tbody>
</table>

### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician) programmable</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Polycarbonate case over a one-piece die-cast aluminum frame and a durable screw-base antenna ensure reliability under demanding commercial operations. Meets Mil-Std requirements and strict environmental standards.</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$585</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Desktop charger for rapid charging a battery pack (charging time 2 h). Multi-charger for charging up to 6 batteries simultaneously (charging time 6 h).</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Minimal</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Minimal</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Chargers, battery pack, speaker-microphones, ac adapter for use with charger, speaker-microphone, belt clip, keypad, SmarTrunk II&lt;sup&gt;TM&lt;/sup&gt; and Logic Board</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>(Land) Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E. (Marine) Meets Mil Spec 810C and Mil Spec 810D.</td>
</tr>
</tbody>
</table>

### Intrinsically Safe
Yes
### General

**Name**

Modular Interconnect System, ACU-1000

**ID#** 53

---

### Model Number(s)

ACU-1000

### Technology

Interconnect

Conventional Modular Interface/Interconnect System

### Manufacturer

JPS Communications, Inc.

5720M Capital Blvd.

Raleigh, North Carolina 27616

919–790–1011 (Tel)

919–790–1456 (Fax)

e-mail: jps@jps.com

http://www.jps.com

### Secure Communication Capability

Yes

### Availability

Available

### Frequency Range

Each module is designed to connect to a specific communications medium (VHF/UHF radio, telephone or Satcom, HF radio, and local operator)

### Number of Personnel Supported by System

Multiple

### Geographic Coverage

Not specified

### Current User(s)

U.S. Army Corps of Engineers, and Federal Emergency Management Agency

### Source

JPS Communications

http://www.jps.com

---

### Operational Parameters

**Number of Channels**

Provides communications interoperability between HF, VHF low band, VHF high band, UHF, 800 MHz, trunking talk-groups and encrypted networks

**Transmitter Power Output Levels**

Not specified

**Battery Options**

Not specified

**Battery Recharging Options**

Built-in 1 A capacity battery charger

---

### Physical Parameters

**Size**

5.3 in x 19 in x 11 in

**Weight**

Not specified

**Power Requirements**

115 V ac to 230 V ac

+12 V, +24 V dc to 28 V dc, or external battery
**External Power**

External and internal

**Available Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Yes</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Yes</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not specified</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Yes</td>
</tr>
<tr>
<td>Repairs</td>
<td>Not specified</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>HAZMAT, EMS, fire, and law enforcement use</td>
</tr>
</tbody>
</table>
| Environmental Conditions   | Operating: -43.6 °F to 140 °F  
                              Storage: -40 °F to 185 °F, and up to 95% @ 131 °F |

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Yes</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Not specified</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Not specified</td>
</tr>
<tr>
<td>Training Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Not specified</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
| Mil Spec/Mil-Std Ratings   | Meets Mil Spec 810D, Method 516.3, Procedure VI and  
                              Mil Spec 810D, Method 514.3, and Category I |
| Intrinsically Safe         | Not specified|
### General

<table>
<thead>
<tr>
<th><strong>Name</strong></th>
<th>Transportable Radio Interconnect System, TRP-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID#</strong></td>
<td>54</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Model Number(s)</strong></th>
<th>TRP-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Interconnect, trunking/conventional Transportable Radio Interconnect System</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>JPS Communications, Inc.</td>
</tr>
<tr>
<td></td>
<td>5720M Capital Blvd.</td>
</tr>
<tr>
<td></td>
<td>Raleigh, North Carolina 27616</td>
</tr>
<tr>
<td></td>
<td>919–790–1011 (Tel)</td>
</tr>
<tr>
<td></td>
<td>919–790–1456 (Fax)</td>
</tr>
<tr>
<td></td>
<td>e-mail: <a href="mailto:jps@jps.com">jps@jps.com</a></td>
</tr>
<tr>
<td></td>
<td><a href="http://www.jps.com">http://www.jps.com</a></td>
</tr>
</tbody>
</table>

### Operational Parameters

<table>
<thead>
<tr>
<th><strong>Secure Communication Capability</strong></th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Availability</strong></td>
<td>Available</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Number of Personnel Supported by System</strong></td>
<td>Multiple</td>
</tr>
<tr>
<td><strong>Geographic Coverage</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Current User(s)</strong></td>
<td>U.S. Army Corps of Engineers, and Federal Emergency Management Agency</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>JPS Communications</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.jps.com">http://www.jps.com</a></td>
</tr>
</tbody>
</table>

| **Number of Channels**              | Provides communications interoperability between HF, VHF low band, VHF high band, UHF, 800 MHz, trunking talk-groups and encrypted networks |
| **Transmitter Power Output Levels** | Not specified |
| **Battery Options**                 | Not specified |
| **Battery Recharging Options**      | Not specified |

### Physical Parameters

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>No</td>
</tr>
</tbody>
</table>
**Available Accessories**
- Speaker-Microphones: Not applicable
- Carrying Cases: Yes
- Battery Eliminators: Not specified
- Vehicle Adapters: Not specified

**Logistical Parameters**
- Programming: Not specified
- Repairs: Not specified
- Decontamination: Not specified
- Durability/Ruggedness: HAZMAT, EMS, fire, and law enforcement use
- Environmental Conditions: Not specified
- Unit Cost: Not specified
- Battery Cycle Life: Not specified
- Rapid Charge Battery Cycle Life: Not specified
- Maintenance Cost: Not specified
- Interface Capability: Yes

**Special Requirements**
- Operator Skills Required: Not specified
- Operator Training Requirements: Not specified
- Training Available: Not specified
- Manuals Available: Not specified
- Applicable Regulations: Not specified
- Support Equipment: Available
- Warranty: Not specified
- Mil Spec/Mil-Std Ratings: Not specified
- Intrinsically Safe: Not specified
### General
- **Name**: Kenwood Synthesized FM Portable Radio; TK-260/G
- **ID#**: 55

### Model Number(s)
- TK-260/G

### Technology
- Portable, conventional; trunking capable with optional accessory board

### Manufacturer
- Kenwood Communications Corporation
  - P.O. Box 22745
  - East Dominguez St.
  - Long Beach, California 90801
  - POC: Barry Morris
  - 800−752−0986, ext. 8280 (Tel)

### Secure Communication Capability
- No

### Availability
- Available

### Frequency Range
- 150 MHz to 174 MHz

### Number of Personnel Supported by System
- Unlimited

### Geographic Coverage
- Not specified

### Current User(s)
- Not specified

### Source
- Kenwood

### Operational Parameters
- **Number of Channels**: 8 channels
- **Transmitter Power Output Levels**: Hi: 5 W; low: 1 W
- **Battery Options**: NiCad (7.2 V, 600 mAh)
  - NiCad (7.2 V, 1100 mAh)
- **Battery Recharging Options**: Regular rate charger, rapid charger, conditioning rapid battery charger, multi-charger adapter, regular rate and rapid rate vehicular charger adapter

### Physical Parameters
- **Size**: 2.3 in x 5.3 in x 1.3 in
- **Weight**: 14 oz with battery and antenna
- **Power Requirements**: 7.5 V dc
- **External Power**: No
### Available Accessories

**Speaker-Microphones**
- Speaker microphone, compact low-profile speaker microphone, earphone, headset, and lapel microphone with earphone

**Carrying Cases**
- Leather case, swivel case adapter, swivel belt loop, and water-resistant bag

**Battery Eliminators**
- Not specified

**Vehicle Adapters**
- No

### Logistical Parameters

**Programming**
- Dealer/User (authorized technician)

**Repairs**
- Dealer

**Decontamination**
- Not specified

**Durability/Ruggedness**
- Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

**Environmental Conditions**
- -22 °F to 140 °F

**Unit Cost**
- $380

**Battery Cycle Life**
- At least 4 h with 5/5/90 cycle

**Rapid Charge Battery Cycle Life**
- Rapid charger, conditioning rapid battery charger, and rapid rate vehicular charger

**Maintenance Cost**
- Not specified

**Interface Capability**
- Not specified

### Special Requirements

**Operator Skills Required**
- Average

**Operator Training Requirements**
- Average

**Training Available**
- Yes

**Manuals Available**
- Yes

**Applicable Regulations**
- Not specified

**Support Equipment**
- Battery, battery case, chargers, microphone, earphone, coil cord, antenna, belt hook, leather case, and water-resistant bag

**Warranty**
- 2 yr

**Mil Spec/Mil-Std Ratings**
- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**
- No
### General

- **Name**: Kenwood Synthesized FM Portable Radio; TK-270/G
- **ID#**: 56
- **Picture Not Available**

### Model Number(s)
- TK-270/G

### Technology
- Portable, conventional; trunking capable with accessory

### Manufacturer
- Kenwood Communications Corporation
  - P.O. Box 22745
  - East Dominguez St.
  - Long Beach, California 90801
- POC: Barry Morris
  - 800–752–0986, ext. 8280 (Tel)

### Secure Communication Capability
- No

### Availability
- Available

### Frequency Range
- 150 MHz to 174 MHz
- 136 MHz to 150 MHz

### Number of Personnel Supported by System
- Unlimited

### Geographic Coverage
- Not specified

### Current User(s)
- Not specified

### Source
- Kenwood

### Operational Parameters

#### Number of Channels
- 128 channels

#### Transmitter Power Output Levels
- Hi: 5 W; low: 1 W

#### Battery Options
- AA alkaline batteries
- NiCad (7.2 V, 600 mAh)
- NiCad (7.2 V, 1100 mAh)

#### Battery Recharging Options
- Six unit charger adapter, regular rate single unit desk charger, 220 V regular rate single unit desk charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate dc vehicular charger, and rapid rate dc vehicular charger

### Physical Parameters

#### Size
- 2.3 in x 5.3 in x 1.3 in

#### Weight
- 14 oz with battery and antenna

#### Power Requirements
- 7.5 V dc

#### External Power
- No
Available Accessories
- **Speaker-Microphones**: Microphone and speakers, heavy duty and light duty
- **Carrying Cases**: Heavy duty carrying case with bungi-cord, cordura nylon carrying case, water-resistant bag, and rubber protective case
- **Battery Eliminators**: Not specified
- **Vehicle Adapters**: No

Logistical Parameters
- **Programming**: Dealer/User (authorized technician)
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions
- **Unit Cost**: $465
- **Battery Cycle Life**: At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life
- **Rapid Charge Battery Cycle Life**: Rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost
- **Maintenance Cost**: Not specified

Interface Capability
- **Interface Capability**: Not specified

Special Requirements
- **Operator Skills Required**: Average
- **Operator Training Requirements**: Average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **Applicable Regulations**: Not specified
- **Support Equipment**: Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera

Warranty
- **Warranty**: 2 yr

Mil Spec/Mil-Std Ratings
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe
- **Intrinsically Safe**: No
**General**

Name

ID# 57

---

**Kenwood Synthesized FM Portable Radio; TK-360/G**

---

**Model Number(s)**

TK-360/G

**Technology**

Portable, conventional; trunking capable with accessory

**Manufacturer**

Kenwood Communications Corporation

P.O. Box 22745

East Dominguez St.

Long Beach, California 90801

POC: Barry Morris

800–752–0986, ext. 8280 (Tel)

---

**Secure Communication Capability**

No

**Availability**

Available

**Frequency Range**

450 MHz to 470 MHz

**Number of Personnel Supported by System**

Unlimited

**Geographic Coverage**

Not specified

**Current User(s)**

Not specified

**Source**

Kenwood

---

**Operational Parameters**

**Number of Channels**

8 channels

**Transmitter Power Output Levels**

Hi: 4 W; low: 1 W

**Battery Options**

NiCad (7.2 V, 600 mAh)

NiCad (7.2 V, 1100 mAh)

**Battery Recharging Options**

Regular rate charger, rapid charger, conditioning rapid battery charger, multi-charger adapter, regular rate and rapid rate vehicular charger adapter

---

**Physical Parameters**

**Size**

2.3 in x 5.3 in x 1.3 in

**Weight**

14.4 oz

**Power Requirements**

7.5 V dc

**External Power**

No
### Available Accessories
- **Speaker-Microphones**: Speaker microphone, compact low-profile speaker microphone, earphone, headset, and lapel microphone with earphone
- **Carrying Cases**: Leather case, swivel case adapter, swivel belt loop, and water-resistant bag
- **Battery Eliminators**: Not specified
- **Vehicle Adapters**: No

### Logistical Parameters
- **Programming**: Dealer/User (authorized technician)
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

#### Environmental Conditions
- Temperature: -22 °F to 140 °F

| **Unit Cost** | $430 |
| **Battery Cycle Life** | At least 4 h with 5/5/90 cycle |
| **Rapid Charge Battery Cycle Life** | Rapid charger, conditioning rapid battery charger, and rapid rate vehicular charger |
| **Maintenance Cost** | Not specified |
| **Interface Capability** | Not specified |

### Special Requirements
- **Operator Skills Required**: Average
- **Operator Training Requirements**: Average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **Applicable Regulations**: Not specified
- **Support Equipment**: Battery, battery case, chargers, microphone, earphone, coil cord, antenna, belt hook, leather case, and water-resistant bag

| **Warranty** | 2 yr |
| **Mil Spec/Mil-Std Ratings** | Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E |
| **Intrinsically Safe** | No |
### General

**Name**
Kenwood Synthesized FM Portable Radio; TK-370/G

**ID# 58**

### Model Number(s)

TK-370/G

### Technology
Portable, conventional; trunking capable with accessory

### Manufacturer
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

### Secure Communication Capability
No

### Availability
Available

### Frequency Range
- 450 MHz to 470 MHz
- 470 MHz to 490 MHz
- 490 MHz to 512 MHz
- 403 MHz to 430 MHz

### Number of Personnel Supported by System
Unlimited

### Geographic Coverage
Not specified

### Current User(s)
Not specified

### Source
Kenwood

### Operational Parameters

**Number of Channels**
128 channels

**Transmitter Power Output Levels**
- Hi: 4 W
- low: 1 W

**Battery Options**
- AA alkaline batteries
- NiCad (7.2 V, 600 mAh)
- NiCad (7.2 V, 1100 mAh)

**Battery Recharging Options**
- Six unit charger adapter, regular rate single unit desk charger, 220 V regular rate single unit desk charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate dc vehicular charger, and rapid rate dc vehicular charger

### Physical Parameters

**Size**
2.3 in x 5.3 in x 1.3 in

**Weight**
4 oz with battery and antenna
### Power Requirements
- **7.5 V dc**

### External Power
- **No**

### Available Accessories
- **Speaker-Microphones**
  - Microphone and speakers, heavy duty and light duty
- **Carrying Cases**
  - Heavy duty carrying case with bungi-cord, cordura nylon carrying case, water-resistant bag, and rubber protective case
- **Battery Eliminators**
  - Not specified
- **Vehicle Adapters**
  - No

### Logistical Parameters
- **Programming**
  - Dealer/User (authorized technician)
- **Repairs**
  - Dealer
- **Decontamination**
  - Not specified
- **Durability/Ruggedness**
  - Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

### Environmental Conditions
- **-22 °F to 140 °F**

### Unit Cost
- **$505**

### Battery Cycle Life
- **At least 4 h with 5/5/90 cycle**

### Rapid Charge Battery Cycle Life
- **Rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter**

### Maintenance Cost
- **Not specified**

### Interface Capability
- **Not specified**

### Special Requirements
- **Operator Skills Required**
  - Average
- **Operator Training Requirements**
  - Average
- **Training Available**
  - Yes
- **Manuals Available**
  - Yes
- **Applicable Regulations**
  - Not specified
- **Support Equipment**
  - Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera

### Warranty
- **2 yr**

### Mil Spec/Mil-Std Ratings
- **Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E**

### Intrinsically Safe
- **No**
Kenwood Compact Synthesized FM Mobile Radio; TK-760G

Model Number(s) TK-760G
Technology Mobile, conventional; trunking capable with optional accessory board
Manufacturer Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801
POC: Barry Morris
800–752–0986, ext. 8280 (Tel)
Secure Communication Capability No
Availability Available
Frequency Range 136 MHz to 162 MHz
148 MHz to 174 MHz
Number of Personnel Supported by System Unlimited
Geographic Coverage Not specified
Current User(s) Transportation
Source Kenwood
Operational Parameters
Number of Channels Maximum 128 channels
Transmitter Power Output Levels 25 W
Battery Options Not applicable
Battery Recharging Options Not applicable
Physical Parameters
Size 5.5 in x 1.6 in x 5.7 in
Weight 2.1 lb
Power Requirements 13.6 ± 15 % V dc
External Power Yes
Available Accessories
Speaker-Microphones Not applicable
<table>
<thead>
<tr>
<th>Carrying Cases</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
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</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Programming</th>
<th>Dealer/User (authorized technician)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Heavy-duty construction</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$489</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Mobile data ready data connection port allows voice and/or data communications using modems, MTD’s and digital messaging equipment</td>
</tr>
</tbody>
</table>

**Special Requirements**

| Operator Skills Required                        | Average                             |
| Operator Training Requirements                  | Average                             |
| Training Available                               | Yes                                 |
| Manuals Available                                | Yes                                 |
| Applicable Regulations                           | FCC ID: Type 1 and 2                |
|                                                  | FCC Compliance: Type 1 and 2        |

| Support Equipment                                | Switching unit, ignition sense cable, accessories connection cable, external speakers, mobile GPS, receiver, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply |

| Warranty                                         | 2 yr                                 |
| Mil Spec/Mil-Std Ratings                         | Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E |
| Intrinsically Safe                               | No                                  |
**General**

Name: Kenwood Compact Synthesized FM Mobile Radio; TK-860G
ID# 60

Picture Not Available

**Model Number(s)**

TK-860G

**Technology**

Mobile, conventional; trunking capable with optional accessory board

**Manufacturer**

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)
No

**Operational Parameters**

Secure Communication Capability: No
Availability: Available
Frequency Range: 450 MHz to 490 MHz
Number of Personnel Supported by System: Unlimited
Geographic Coverage: Not specified
Current User(s): Transportation
Source: Kenwood

Number of Channels: Maximum 128 channels
Transmitter Power Output Levels: 25 W
Battery Options: Not applicable
Battery Recharging Options: Not applicable

**Physical Parameters**

Size: 5.5 in x 1.6 in x 5.7 in
Weight: 2.1 lb
Power Requirements: 13.6 ± 15 % V dc
External Power: Yes

**Available Accessories**

Speaker-Microphones: Not applicable
Carrying Cases: Not applicable
Battery Eliminators: Not applicable
Vehicle Adapters: Not applicable
### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
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<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Heavy-duty construction</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
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<tr>
<td>Unit Cost</td>
<td>$519</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Mobile data ready data connection port allows voice and/or data communications using modems, MTD’s and digital messaging equipment</td>
</tr>
</tbody>
</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>FCC ID: Type 1 and 2</td>
</tr>
<tr>
<td></td>
<td>FCC Compliance: Type 1 and 2</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>GPS receiver, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
**General**

**Name**

Kenwood Compact Synthesized FM Mobile Radio; TK-762G

**ID# 61**

**Model Number(s)**

TK-762G

**Technology**

Mobile, conventional; trunking capable with optional accessory board

**Manufacturer**

Kenwood Communications Corporation

P.O. Box 22745

East Dominguez St.

Long Beach, California 90801

POC: Barry Morris

800−752−0986, ext. 8280 (Tel)

**Secure Communication Capability**

No

**Availability**

Available

**Frequency Range**

136 MHz to 162 MHz

148 MHz to 174 MHz

**Number of Personnel Supported by System**

Multiple

**Geographic Coverage**

Not specified

**Current User(s)**

Transportation

**Source**

Kenwood

**Operational Parameters**

**Number of Channels**

Maximum 8 channels

**Transmitter Power Output Levels**

25 W

**Battery Options**

Not applicable

**Battery Recharging Options**

Not applicable

**Physical Parameters**

**Size**

5.5 in x 1.6 in x 5.7 in

**Weight**

2.1 lb

**Power Requirements**

13.6 V dc ± 15 %

**External Power**

Not applicable

**Available Accessories**

**Speaker-Microphones**

Not applicable
Carrying Cases: Not applicable
Battery Eliminators: Not applicable
Vehicle Adapters: Not applicable

**Logistical Parameters**

Programming: Dealer/User (authorized technician)
Repairs: Dealer
Decontamination: Not specified
Durability/Ruggedness: Meet or exceed government environmental standards covering shock, vibration, and dust for long-term durability in rough vehicle environments. Heavy-duty construction provides long-lasting field life.

Environmental Conditions: -22 °F to 140 °F
Unit Cost: $429
Battery Cycle Life: Not applicable
Rapid Charge Battery Cycle Life: Not applicable
Maintenance Cost: Not specified
Interface Capability: Data ready connection port for MDT/modem application

**Special Requirements**

Operator Skills Required: Average
Operator Training Requirements: Average
Training Available: Yes
Manuals Available: Yes
Applicable Regulations: FCC ID: Type 1 and 2
FCC Compliance: Type 1 and 2

Support Equipment: PA/HA switching unit, ignition sense cable, accessories connection cable, connection cable, external speakers, mobile GPS modem unit, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply

Warranty: 2 yr
Mil Spec/Mil-Std Ratings: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe: No
**General**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kenwood Compact Synthesized FM Mobile Radio; TK-862G</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID# 62</td>
<td></td>
</tr>
</tbody>
</table>

| Model Number(s)       | TK-862G                                             |
| Technology            | Mobile, conventional; trunking capable with optional accessory board |
| Manufacturer          | Kenwood Communications Corporation                  |
|                       | P.O. Box 22745                                      |
|                       | East Dominguez St.                                  |
|                       | Long Beach, California 90801                       |
| Secure Communication Capability | No                                               |
| Availability          | Available                                           |
| Frequency Range       | 450 MHz to 490 MHz                                  |
| Number of Personnel Supported by System | Multiple                                       |
| Geographic Coverage   | Not specified                                       |
| Current User(s)       | Transportation                                      |
| Source                | Kenwood                                             |

**Operational Parameters**

| Number of Channels     | Maximum 8 channels                                  |
| Transmitter Power Output Levels | 25 W                                              |
| Battery Options        | Not applicable                                      |
| Battery Recharging Options | Not applicable                                  |

**Physical Parameters**

| Size                   | 5.5 in x 1.6 in x 5.7 in                           |
| Weight                | 2.1 lb                                              |
| Power Requirements    | 13.6 V dc ± 15 %                                   |
| External Power        | Not applicable                                      |

**Available Accessories**

| Speaker-Microphones   | Not applicable                                      |
| Carrying Cases        | Not applicable                                      |
Battery Eliminators
Not applicable
Vehicle Adapters
Not applicable

**Logistical Parameters**

- **Programming**
  Dealer/User (authorized technician)
- **Repairs**
  Dealer
- **Decontamination**
  Not specified
- **Durability/Ruggedness**
  Meet or exceed government environmental standards covering shock, vibration, and dust for long-term durability in rough vehicle environments. Heavy-duty construction provides long-lasting field life.

**Environmental Conditions**

-22 °F to 140 °F

**Unit Cost**

$459

**Battery Cycle Life**

Not applicable

**Rapid Charge Battery Cycle Life**

Not applicable

**Maintenance Cost**

Not specified

**Interface Capability**

Data ready connection port for MDT/modem applications

**Special Requirements**

- **Operator Skills Required**
  Average
- **Operator Training Requirements**
  Average
- **Training Available**
  Yes
- **Manuals Available**
  Yes
- **Applicable Regulations**
  FCC ID: Type 1 and 2
  FCC Compliance: Type 1 and 2
- **Support Equipment**
  PA/HA switching unit, ignition sense cable, accessories connection cable, connection cable, external speakers, mobile GPS modem unit, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply
- **Warranty**
  2 yr
- **Mil Spec/Mil-Std Ratings**
  Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- **Intrinsically Safe**
  No
**General**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kenwood Compact Synthesized FM Mobile Radio; TK-760H</th>
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</thead>
<tbody>
<tr>
<td>ID# 63</td>
<td>TK-760H</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>TK-760H</th>
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</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Mobile, conventional</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Kenwood Communications Corporation</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 22745</td>
</tr>
<tr>
<td></td>
<td>East Dominguez St.</td>
</tr>
<tr>
<td></td>
<td>Long Beach, California 90801</td>
</tr>
<tr>
<td>POC: Barry Morris</td>
<td>800–752–0986, ext. 8280 (Tel)</td>
</tr>
</tbody>
</table>

**Secure Communication Capability**

- Voice encryption-ready using voice scrambler control (on/off & code selection)

**Availability**

- Available

**Frequency Range**

- 148 MHz to 174 MHz
- 136 MHz to 156 MHz

**Number of Personnel Supported by System**

- Unlimited

**Geographic Coverage**

- Not specified

**Current User(s)**

- Transportation

**Source**

- Kenwood

**Operational Parameters**

<table>
<thead>
<tr>
<th>Number of Channels</th>
<th>32 semiduplex channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter Power Output Levels</td>
<td>25 W to 45 W</td>
</tr>
<tr>
<td>Battery Options</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th>Size</th>
<th>5.5 in x 1.6 in x 6.7 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.2 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>13.6 ± 15 % V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Available Accessories**

<table>
<thead>
<tr>
<th>Speaker-Microphones</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Programming</th>
<th>Dealer/User (authorized technician)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Die-case chassis/heat sink and rugged design meets Mil-Std specifications for shock, vibration and dust</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$549</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Mobile data-ready port for MDT/modem applications</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Operator Skills Required</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>FCC ID and Compliance: Type 1, 2, 3, and 4 IC Certification: Type 1 and 2 Applicable EIA/TIA Standard</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, control station desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
**General**

Name
ID# 64

**Model Number(s)**
TK-860H

**Technology**
Mobile, conventional

**Manufacturer**
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**
Voice encryption-ready using voice scrambler control (on/off & code selection)

**Availability**
Available

**Frequency Range**
450 MHz to 476 MHz
470 MHz to 496 MHz
488 MHz to 512 MHz
406 MHz to 430 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
Not specified

**Current User(s)**
Transportation

Source
Kenwood

**Operational Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Channels</td>
<td>32 semiduplex channels</td>
</tr>
<tr>
<td>Transmitter Power Output Levels</td>
<td>25 W to 35 W</td>
</tr>
<tr>
<td>Battery Options</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>5.5 in x 1.6 in x 6.7 in</td>
</tr>
<tr>
<td>Weight</td>
<td>2.2 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>13.6 ± 15 % V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Available Accessories**
Speaker-Microphones  Not applicable  
Carrying Cases  Not applicable  
Battery Eliminators  Not applicable  
Vehicle Adapters  Not applicable  

*Logistical Parameters*

**Programming**  Dealer/User (authorized technician)  
**Repairs**  Dealer  
**Decontamination**  Not specified  
**Durability/Ruggedness**  Die-case chassis/heat sink and rugged design meets Mil-Std specifications for shock, vibration and dust  

**Environmental Conditions**  -22 °F to 140 °F  
**Unit Cost**  $599  
**Battery Cycle Life**  Not applicable  
**Rapid Charge Battery Cycle Life**  Not applicable  
**Maintenance Cost**  Not specified  
**Interface Capability**  Mobile data-ready port for MDT/modem applications  

*Special Requirements*

**Operator Skills Required**  Average  
**Operator Training Requirements**  Average  
**Training Available**  Yes  
**Manuals Available**  Yes  
**Applicable Regulations**  Not specified  
**Support Equipment**  Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, control station desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case  

**Warranty**  2 yr  
**Mil Spec/Mil-Std Ratings**  Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E  
**Intrinsically Safe**  No
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th><strong>Kenwood Compact Synthesized FM Mobile Radio; TK-762H</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>Kenwood Compact Synthesized FM Mobile Radio; TK-762H</td>
</tr>
<tr>
<td><strong>ID#</strong></td>
<td>65</td>
</tr>
</tbody>
</table>

| **Model Number(s)** | TK-762H |
| **Technology** | Mobile, conventional |
| **Manufacturer** | Kenwood Communications Corporation  
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801 |
| **POC:** | Barry Morris  
800–752–0986, ext. 8280 (Tel) |

| **Secure Communication Capability** | Voice encryption-ready: easy access connection points provided |
| **Availability** | Available |
| **Frequency Range** | 136 MHz to 156 MHz  
148 MHz to 174 MHz |
| **Number of Personnel Supported by System** | Unlimited |
| **Geographic Coverage** | Not specified |
| **Current User(s)** | Transportation |
| **Source** | Kenwood |

| **Operational Parameters** |  |
| **Number of Channels** | 2 semiduplex channels |
| **Transmitter Power Output Levels** | Standard 25 W  
H-Model 45 W |
| **Battery Options** | Not applicable |
| **Battery Recharging Options** | Not applicable |

| **Physical Parameters** |  |
| **Size** | 5.5 in x 1.6 in x 6.7 in |
| **Weight** | 2.2 lb |
| **Power Requirements** | 13.6 V dc negative ground |
| **External Power** | Not applicable |

<p>| <strong>Available Accessories</strong> |  |
| <strong>Speaker-Microphones</strong> | Not applicable |</p>
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Die-cast chassis/heat sink and rugged design</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$469</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
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<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Data ready connection port for MDT/Modem applications</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>FCC ID and Compliance: Type 1, 2, 3, and 4</td>
</tr>
<tr>
<td></td>
<td>IC Certification: Type 1 and 2</td>
</tr>
<tr>
<td></td>
<td>Applicable EIA/TIA Standard</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
General
Name
ID# 66

Kenwood Compact Synthesized FM Mobile Radio;
TK-862H

Model Number(s)
TK-862HG

Technology
Mobile, conventional

Manufacturer
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

Secure Communication Capability
Voice encryption-ready: easy access connection points provided

Availability
Available

Frequency Range
450 MHz to 476 MHz
470 MHz to 496 MHz
488 MHz to 512 MHz
406 MHz to 430 MHz

Number of Personnel Supported by System
Unlimited

Geographic Coverage
Not specified

Current User(s)
Transportation

Source
Kenwood

Operational Parameters
Number of Channels
2 semiduplex channels

Transmitter Power Output Levels
Standard 25 W
H-Model 35 W

Battery Options
Not applicable

Battery Recharging Options
Not applicable

Physical Parameters
Size
5.5 in x 1.6 in x 6.7 in

Weight
2.2 lb

Power Requirements
13.6 V dc negative ground

External Power
Not applicable
### Available Accessories
- **Speaker-Microphones**: Not applicable
- **Carrying Cases**: Not applicable
- **Battery Eliminators**: Not applicable
- **Vehicle Adapters**: Not applicable

### Logistical Parameters
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Die-cast chassis/heat sink and rugged design</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$539</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Data ready connection port for MDT/Modem applications</td>
</tr>
</tbody>
</table>

### Special Requirements
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| Applicable Regulations             | FCC ID and Compliance: Type 1, 2, 3, and 4  
                                        IC Certification: Type 1 and 2  
                                        Applicable EIA/TIA Standard |
| Support Equipment                  | Hand microphone, programming disk, PA/HA unit,  
                                        programming interface cable, external speaker, desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case |
| Warranty                           | 2 yr                                |
| Mil Spec/Mil-Std Ratings           | Meets Mil Spec 810C, Mil Spec 810D, and  
                                        Mil Spec 810E |
<p>| Intrinsically Safe                 | No                                  |</p>
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th>Kenwood Public Safety Mobile FM Radios; TK-690H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ID# 67</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Model Number(s)</strong></td>
<td>TK-690H</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td>Mobile, conventional</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Kenwood Communications Corporation</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 22745</td>
</tr>
<tr>
<td></td>
<td>East Dominguez St.</td>
</tr>
<tr>
<td></td>
<td>Long Beach, California 90801</td>
</tr>
<tr>
<td><strong>POC:</strong> Barry Morris</td>
<td></td>
</tr>
<tr>
<td><strong>Tel:</strong> 800–752–0986, ext. 8280</td>
<td></td>
</tr>
<tr>
<td><strong>Secure Communication Capability</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Available</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>29.7 MHz to 37.0 MHz</td>
</tr>
<tr>
<td></td>
<td>35 MHz to 43 MHz</td>
</tr>
<tr>
<td></td>
<td>40 MHz to 50 MHz</td>
</tr>
<tr>
<td><strong>Number of Personnel Supported by System</strong></td>
<td>Unlimited</td>
</tr>
<tr>
<td><strong>Geographic Coverage</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Current User(s)</strong></td>
<td>Public Safety Units</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Kenwood</td>
</tr>
<tr>
<td><strong>Operational Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Number of Channels</strong></td>
<td>160 channels</td>
</tr>
<tr>
<td><strong>Transmitter Power Output Levels</strong></td>
<td>110 adjustable to 45 W</td>
</tr>
<tr>
<td><strong>Battery Options</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Battery Recharging Options</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Physical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>7 in x 2.4 in x 12.9 in</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>7.9 lb</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>13.4 V dc ± 15 %</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
**Available Accessories**
- Speaker-Microphones: Not applicable
- Carrying Cases: Not applicable
- Battery Eliminators: Not applicable
- Vehicle Adapters: Not applicable

**Logistical Parameters**
- Programming: Dealer/User (authorized technician)
- Repairs: Dealer
- Decontamination: Not specified
- Durability/Ruggedness: Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.

**Environmental Conditions**
- -22 °F to 140 °F

**Unit Cost**
- $1K

**Battery Cycle Life**
- Not applicable

**Rapid Charge Battery Cycle Life**
- Not applicable

**Maintenance Cost**
- Not specified

**Interface Capability**
- Not specified

**Special Requirements**
- Operator Skills Required: Experienced
- Operator Training Requirements: Experienced
- Training Available: Yes
- Manuals Available: Yes
- Applicable Regulations: Not specified

**Support Equipment**
- Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply

**Warranty**
- 2 yr

**Mil Spec/Mil-Std Ratings**
- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**
- No
Kenwood Public Safety Mobile FM Radios; TK-790

Model Number(s)  TK-790
Technology       Mobile, conventional
Manufacturer     Kenwood Communications Corporation
                 P.O. Box 22745
                 East Dominguez St.
                 Long Beach, California 90801

Secure Communication Capability No
Availability      Available
Frequency Range  136 MHz to 156 MHz
                 148 MHz to 174 MHz
Number of Personnel Supported by System Unlimited
Geographic Coverage Not specified
Current User(s)  Public Safety Units
Source          Kenwood

Operational Parameters
Number of Channels 160 channels
Transmitter Power Output Levels 110 adjustable to 5 W
Battery Options     Not applicable
Battery Recharging Options Not applicable

Physical Parameters
Size              7 in x 2.4 in x 7.7 in
Weight            5.7 lb
Power Requirements 13.6 V dc ± 15 %
External Power    Not applicable

Available Accessories
Speaker-Microphones Not applicable
Carrying Cases: Not applicable
Battery Eliminators: Not applicable
Vehicle Adapters: Not applicable

**Logistical Parameters**

Programming: Dealer/User (authorized technician)
Repairs: Dealer
Decontamination: Not specified
Durability/Ruggedness: Rugged Use
Environmental Conditions: -22 °F to 140 °F
Unit Cost: $730
Battery Cycle Life: Not applicable
Rapid Charge Battery Cycle Life: Not applicable
Maintenance Cost: Not specified
Interface Capability: Not specified

**Special Requirements**

Operator Skills Required: Experienced
Operator Training Requirements: Experienced
Training Available: Yes
Manuals Available: Yes
Applicable Regulations: Not specified
Support Equipment: Available
Warranty: 2 yr
Mil Spec/Mil-Std Ratings: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe: No
<table>
<thead>
<tr>
<th>General</th>
<th>Kenwood Public Safety Mobile FM Radios; TK-790H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Kenwood Public Safety Mobile FM Radios; TK-790H</td>
</tr>
<tr>
<td>ID# 69</td>
<td></td>
</tr>
</tbody>
</table>

| Model Number(s)        | TK-790H                                         |
| Technology             | Mobile, conventional                            |
| Manufacturer           | Kenwood Communications Corporation              |
|                         | P.O. Box 22745                                  |
|                         | East Dominguez St.                              |
|                         | Long Beach, California 90801                   |
|                         | POC: Barry Morris                               |
|                         | 800–752–0986, ext. 8280 (Tel)                  |

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

| Number of Channels     | 160 channels                                   |
| Transmitter Power Output Levels | 110 adjustable to 45 W                        |
| Battery Options        | Not applicable                                 |
| Battery Recharging Options | Not applicable                              |

Physical Parameters

| Size                   | 7 in x 2.4 in x 12.9 in                        |
| Weight                | 7.9 lb                                         |
| Power Requirements    | 13.4 V dc ± 15 %                               |
| External Power        | Not applicable                                 |
**Available Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.</td>
</tr>
</tbody>
</table>

**Environmental Conditions**

-22 °F to 140 °F

**Unit Cost**

$1.2K

**Battery Cycle Life**

Not applicable

**Rapid Charge Battery Cycle Life**

Not applicable

**Maintenance Cost**

Not specified

**Interface Capability**

Not specified

**Special Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Experienced</td>
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<tr>
<td>Operator Training Requirements</td>
<td>Experienced</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
### General

**Name**

Kenwood Public Safety Mobile FM Radios; TK-890

**ID# 70**

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>TK-890</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Mobile, conventional</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Kenwood Communications Corporation</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 22745</td>
</tr>
<tr>
<td></td>
<td>East Dominguez St.</td>
</tr>
<tr>
<td></td>
<td>Long Beach, California 90801</td>
</tr>
</tbody>
</table>

**POC:** Barry Morris

800–752–0986, ext. 8280 (Tel)

### Operational Parameters

**Number of Channels**

160 channels

**Transmitter Power Output Levels**

40 W adjustable to 5 W

**Battery Options**

Not applicable

**Battery Recharging Options**

Not applicable

### Physical Parameters

**Size**

7 in x 2.4 in x 7.7 in

**Weight**

5.7 lb

**Power Requirements**

13.6 ± 15 % V dc

**External Power**

Not applicable

### Available Accessories

**Speaker-Microphones**

Not applicable

**Carrying Cases**

Not applicable
Battery Eliminators
Not applicable
Vehicle Adapters
Not applicable

**Logistical Parameters**

Programming
Dealer/User (authorized technician)
Repairs
Dealer
Decontamination
Not specified
Durability/Ruggedness
Rugged use
Environmental Conditions
-22 °F to 140 °F
Unit Cost
$780
Battery Cycle Life
Not applicable
Rapid Charge Battery Cycle Life
Not applicable
Maintenance Cost
Not specified
Interface Capability
Not specified

**Special Requirements**

Operator Skills Required
Experienced
Operator Training Requirements
Experienced
Training Available
Yes
Manuals Available
Yes
Applicable Regulations
Not specified
Support Equipment
Not specified
Warranty
2 yr
Mil Spec/Mil-Std Ratings
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe
No
**General**

Name  
Kenwood Public Safety Mobile FM Radios; TK-890H

ID# 71

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>TK-890H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Mobile, conventional</td>
</tr>
</tbody>
</table>
| Manufacturer    | Kenwood Communications Corporation  
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801 |
| POC: Barry Morris  
800-752-0986, ext. 8280 (Tel) |
| Secure Communication Capability |
| Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption. |
| Availability | Available |
| Frequency Range | 450 MHz to 490 MHz |
| Number of Personnel Supported by System | Unlimited |
| Geographic Coverage | Not specified |
| Current User(s) | Public Safety Units |
| Source | Kenwood |

**Operational Parameters**

| Number of Channels | 160 channels |
| Transmitter Power Output Levels | 40 W to 100 W (depending on the version) |
| Battery Options | Not applicable |
| Battery Recharging Options | Not applicable |

**Physical Parameters**

| Size | 7 in x 2.4 in x 12.9 in |
| Weight | 7.9 lb |
| Power Requirements | 13.4 ± 15 % V dc |
| External Power | Not applicable |
### Available Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td></td>
</tr>
<tr>
<td>Carrying Cases</td>
<td></td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td></td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td></td>
</tr>
</tbody>
</table>

### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.</td>
</tr>
</tbody>
</table>

### Environmental Conditions
-22 °F to 140 °F

### Unit Cost
$1.2K

### Battery Cycle Life
Not Applicable

### Rapid Charge Battery Cycle Life
Not Applicable

### Maintenance Cost
Not Specified

### Interface Capability
Not Specified

### Special Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Experienced</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Experienced</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply</td>
</tr>
</tbody>
</table>

### Warranty
2 yr

### Mil Spec/Mil-Std Ratings
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

### Intrinsically Safe
No
**General**

Name
ID# 72

**Kenwood VHF/UHF Mobile Radio; TK-780**

**Model Number(s)**
TK-780

**Technology**
Mobile, conventional and trunked

**Manufacturer**
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**
Encryption control: An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes

**Availability**
Available

**Frequency Range**
136 MHz to 162 MHz
146 MHz to 174 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Kenwood

**Operational Parameters**

**Number of Channels**
Systems (trunked mode): maximum 32 channels
Groups (trunked mode): maximum 250 channels
Trunked/conventional: maximum 600/maximum 250 channels

**Transmitter Power Output Levels**
25 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

**Physical Parameters**

**Size**
5.5 in x 1.6 in x 5.7 in

**Weight**
2.1 lb

**Power Requirements**
13.6 V dc ± 15 %
External Power

**Available Accessories**

- **Speaker-Microphones**: Not applicable
- **Carrying Cases**: Not applicable
- **Battery Eliminators**: Not applicable
- **Vehicle Adapters**: Not applicable

**Logistical Parameters**

- **Programming**: Dealer/User (authorized technician)
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Lightweight die-cast chassis provides exceptional strength while providing natural transmit heat dissipation. Interlocking metal covers and seals lockout moisture and dust.

**Environmental Conditions**

- **Unit Cost**: $580
- **Battery Cycle Life**: Not applicable
- **Rapid Charge Battery Cycle Life**: Not applicable
- **Maintenance Cost**: Not specified
- **Interface Capability**: Not specified

**Special Requirements**

- **Operator Skills Required**: Average
- **Operator Training Requirements**: Average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **Applicable Regulations**: FCC ID: Type 1, 2, and 3
  - FCC Compliance: Type 1, 2, and 3
  - IC Certification: Type 1, 2, and 3

**Support Equipment**

- Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessories connector cable, external speakers, mounting case, key lock adapter, dc power supply, line noise filter, and PA/HA unit

**Warranty**

- **2 yr**

**Mil Spec/Mil-Std Ratings**

- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**

- No
**General**

Name
ID# 73

---

**Kenwood VHF/UHF Mobile Radio; TK-880**

---

**Model Number(s)**
TK-880

**Technology**
Mobile, conventional and trunked

**Manufacturer**
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800−752−0986, ext. 8280 (Tel)

**Secure Communication Capability**
Encryption control: An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

**Availability**
Available

**Frequency Range**
450 MHz to 490 MHz
485 MHz to 512 MHz
400 MHz to 430 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Kenwood

---

**Operational Parameters**

**Number of Channels**
Systems (trunked mode): maximum 32 channels
Groups (trunked mode): maximum 250 channels
Trunked/conventional: maximum 600/maximum 250 channels

**Transmitter Power Output Levels**
25 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

---

**Physical Parameters**

**Size**
5.5 in x 1.6 in x 5.7 in

**Weight**
2.1 lb
Power Requirements 13.6 V dc ± 15 %

External Power Not applicable

Available Accessories

Speaker-Microphones Not applicable
Carrying Cases Not applicable
Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)
Repairs Dealer
Decontamination Not specified
Durability/Ruggedness Lightweight die-cast chassis provides exceptional strength while providing natural transmit heat dissipation. Interlocking metal covers and seals lockout moisture and dust.

Environmental Conditions -22 °F to 140 °F
Unit Cost $600
Battery Cycle Life Not applicable
Rapid Charge Battery Cycle Life Not applicable
Maintenance Cost Not specified
Interface Capability Not specified

Special Requirements

Operator Skills Required Average
Operator Training Requirements Average
Training Available Yes
Manuals Available Yes
Applicable Regulations FCC ID: Type 1, 2, and 3
FCC Compliance: Type 1, 2, and 3
IC Certification: Type 1, 2, and 3
Support Equipment Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessories connector cable, external speakers, mounting case, key lock adapter, dc power supply, line noise filter, and PA/HA unit

Warranty 2 yr
Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe No
### General

**Name**
Kenwood Transceiver, Portable; TK-2100

**ID#**
74

### Model Number(s)
TK-2100, ProTalk*

### Technology
Portable, conventional

### Manufacturer
Kenwood Communications Corporation  
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801

POC: Barry Morris  
800–752-0986, ext. 8280 (Tel)

### Secure Communication Capability
No

### Availability
Available

### Frequency Range
150 MHz to 160 MHz

### Number of Personnel Supported by System
Unlimited

### Geographic Coverage
5 mi line of sight

### Current User(s)
Not specified

### Source
Kenwood

### Operational Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Channels</td>
<td>1 or 2 channels</td>
</tr>
<tr>
<td>Transmitter Power Output Levels</td>
<td>2 W</td>
</tr>
<tr>
<td>Battery Options</td>
<td>AA alkaline, NiCad battery, extended NiCad battery</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with preconditioning discharge features</td>
</tr>
</tbody>
</table>

### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2.3 in x 4.9 in x 1.3 in (with battery)</td>
</tr>
<tr>
<td>Weight</td>
<td>11.2 oz (with battery)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>7.2 V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>No</td>
</tr>
</tbody>
</table>
Available Accessories

Speaker-Microphones
- Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases
- Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators
- No

Vehicle Adapters
- No

Logistical Parameters

Programming
- Dealer/User (authorized technician)

Repairs
- Dealer

Decontamination
- Not specified

Durability/Ruggedness

Environmental Conditions
- -22 °F to 140 °F

Unit Cost
- $259

Battery Cycle Life
- 8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life
- Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost
- Not specified

Interface Capability
- Not specified

Special Requirements

Operator Skills Required
- Minimal

Operator Training Requirements
- Minimal

Training Available
- Yes

Manuals Available
- Yes

Applicable Regulations
- Not specified

Support Equipment
- Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty
- 2 yr

Mil Spec/Mil-Std Ratings
- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe
- No
**General**

**Name**
Kenwood Transceiver, Portable; TK-3100

**ID#** 75

Picture Not Available

<table>
<thead>
<tr>
<th><strong>Model Number(s)</strong></th>
<th>TK-3100, ProTalk™</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Portable, conventional</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Kenwood Communications Corporation</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 22745</td>
</tr>
<tr>
<td></td>
<td>East Dominguez St.</td>
</tr>
<tr>
<td></td>
<td>Long Beach, California 90801</td>
</tr>
<tr>
<td><strong>Secure Communication Capability</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Available</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>460 MHz to 470 MHz</td>
</tr>
<tr>
<td><strong>Number of Personnel Supported by System</strong></td>
<td>Unlimited</td>
</tr>
<tr>
<td><strong>Geographic Coverage</strong></td>
<td>5 mi line of sight</td>
</tr>
<tr>
<td><strong>Current User(s)</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Kenwood</td>
</tr>
</tbody>
</table>

**Operational Parameters**

| **Number of Channels** | 1 or 2 channels |
| **Transmitter Power Output Levels** | 2 W |
| **Battery Options** | AA alkaline, NiCad battery, extended NiCad battery |
| **Battery Recharging Options** | Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with preconditioning discharge features |

**Physical Parameters**

| **Size** | 2.3 in x 4.9 in x 1.3 in (with battery) |
| **Weight** | 11.2 oz (with battery) |
| **Power Requirements** | Not specified |
| **External Power** | No |
Available Accessories

Speaker-Microphones
Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases
Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators
No

Vehicle Adapters
No

Logistical Parameters

Programming
Dealer/User (authorized technician)

Repairs
Dealer

Decontamination
Not specified

Durability/Ruggedness

Environmental Conditions
-22 °F to 140 °F

Unit Cost
$275

Battery Cycle Life
8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life
Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost
Not specified

Interface Capability
Not specified

Special Requirements

Operator Skills Required
Minimal

Training Available
Yes

Manuals Available
Yes

Applicable Regulations
Not specified

Support Equipment
Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty
2 yr

Mil Spec/Mil-Std Ratings
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe
No
**General**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kenwood Transceiver, Portable; TK-3101</th>
</tr>
</thead>
</table>

| ID# 76 | Picture Not Available |

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>TK-3101, FreeTalk*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Portable, conventional</td>
</tr>
</tbody>
</table>
| Manufacturer    | Kenwood Communications Corporation  
|                 | P.O. Box 22745  
|                 | East Dominguez St.  
|                 | Long Beach, California 90801 |
| POC            | Barry Morris  
|                | 800–752–0986, ext. 8280 (Tel) |
| Secure Communication Capability | No |
| Availability   | Available |
| Frequency Range | 460 MHz to 470 MHz |
| Number of Personnel Supported by System | Unlimited |
| Geographic Coverage | 5 mi line of sight |
| Current User(s)  | Not specified |
| Source          | Kenwood |

**Operational Parameters**

<table>
<thead>
<tr>
<th>Number of Channels</th>
<th>15 channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter Power Output Levels</td>
<td>2 W</td>
</tr>
<tr>
<td>Battery Options</td>
<td>AA alkaline, NiCad battery, extended NiCad battery</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with preconditioning discharge features</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th>Size</th>
<th>2.3 in x 4.9 in x 1.3 in (with battery)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>11.2 oz (with battery)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>Not specified</td>
</tr>
<tr>
<td>External Power</td>
<td>No</td>
</tr>
</tbody>
</table>
**Available Accessories**

**Speaker-Microphones**
- Clip microphone with earphone, headset, earphone kit,
  - earset with flex boom microphone and swivel earloop,
  - single muff headset with boom microphone, palm
  - microphone with earphone, and speaker microphone

**Carrying Cases**
- Heavy duty carrying case, nylon case, horizontal-wear
  - nylon case, water resistant bag, and rubber protective case

**Battery Eliminators**
- No

**Vehicle Adapters**
- No

**Logistical Parameters**

**Programming**
- Dealer/User (authorized technician)

**Repairs**
- Dealer

**Decontamination**
- Not specified

**Durability/Ruggedness**
- Die-cast chassis, polycarbonate case, weather-sealed
  - construction. Meets military environmental standards for
  - light rain, humidity, dust, vibration, and shock.

**Environmental Conditions**
- -22 °F to 140 °F

**Unit Cost**
- $292

**Battery Cycle Life**
- 8 h with 5/5/90 cycle

**Rapid Charge Battery Cycle Life**
- Single unit desk charger (rapid rate), 220 V single unit
  - desk charger (rapid rate), dc vehicular charger adapter
  - (rapid rate), and rapid rate single unit charger with pre-
  - conditioning discharge features

**Maintenance Cost**
- Not specified

**Interface Capability**
- Not specified

**Special Requirements**

**Operator Skills Required**
- Minimal

**Operator Training Requirements**
- Minimal

**Training Available**
- Yes

**Manuals Available**
- Yes

**Applicable Regulations**
- Not specified

**Support Equipment**
- Antennas, batteries and chargers, carrying accessories,
  - microphone and speakers, and service related accessories

**Warranty**
- 2 yr

**Mil Spec/Mil-Std Ratings**
- Meets Mil Spec 810C, Mil Spec 810D, and
  - Mil Spec 810E

**Intrinsically Safe**
- No
Kenwood VHF Fm Transceivers; TK-290

**General**

**Name**
ID# 77

**Model Number(s)**
TK-290

**Technology**
Portable, conventional

**Manufacturer**
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
136 MHz to 174 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Kenwood

**Operational Parameters**

**Number of Channels**
160 channels

**Transmitter Power Output Levels**
5 W

**Battery Options**
AA alkaline batteries, NiCad battery, and NiCad intrinsically safe battery

**Battery Recharging Options**
Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

**Physical Parameters**

**Size**
2.3 in x 6.1 in x 1.6 in

**Weight**
20 oz with antenna and belt hook

**Power Requirements**
7.5 V dc

**External Power**
No
**Available Accessories**

<table>
<thead>
<tr>
<th>Speaker-Microphones</th>
<th>Earphone kit, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>Heavy duty leather carrying case, cordura nylon carrying case, and rubber protective case</td>
</tr>
<tr>
<td><strong>Battery Eliminators</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Vehicle Adapters</strong></td>
<td>No</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Programming</th>
<th>Dealer/User (authorized technician)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental Conditions</th>
<th>-22 °F to 140 °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Cost</td>
<td>$800</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>10 h with 5/5/90 cycle</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maintenance Cost</th>
<th>Not specified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

**Special Requirements**

<table>
<thead>
<tr>
<th>Operator Skills Required</th>
<th>Experienced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Training Requirements</td>
<td>Experienced</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories</td>
</tr>
</tbody>
</table>

<p>| Warranty | 2 yr |
| Mil Spec/Mil-Std Ratings | Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E |
| Intrinsically Safe | Yes |</p>
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th><strong>Kenwood UHF Fm Transceivers; TK-390</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>Name</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ID# 78</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Model Number(s)</strong></th>
<th>TK-390</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Portable, conventional</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Kenwood Communications Corporation</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 22745</td>
</tr>
<tr>
<td></td>
<td>East Dominguez St.</td>
</tr>
<tr>
<td></td>
<td>Long Beach, California 90801</td>
</tr>
<tr>
<td></td>
<td>POC: Barry Morris</td>
</tr>
<tr>
<td></td>
<td>800–752–0986, ext. 8280 (Tel)</td>
</tr>
</tbody>
</table>

| **Secure Communication Capability** | Yes |
| **Availability**                   | Available |
| **Frequency Range**                | 450 MHz to 490 MHz, 470 MHz to 512 MHz, 403 MHz to 430 MHz |
| **Number of Personnel Supported by System** | Multiple |
| **Geographic Coverage**            | Not specified |
| **Current User(s)**                | Not specified |
| **Source**                         | Kenwood |

<table>
<thead>
<tr>
<th><strong>Operational Parameters</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Channels</strong></td>
</tr>
<tr>
<td><strong>Transmitter Power Output Levels</strong></td>
</tr>
<tr>
<td><strong>Battery Options</strong></td>
</tr>
<tr>
<td><strong>Battery Recharging Options</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Physical Parameters</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
</tr>
<tr>
<td><strong>External Power</strong></td>
</tr>
</tbody>
</table>
Available Accessories

Speaker-Microphones
- Earphone kit, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone

Carrying Cases
- Heavy duty leather carrying case, cordura nylon carrying case, and rubber protective case

Battery Eliminators
- Not specified

Vehicle Adapters
- Not specified

Logistical Parameters

Programming
- Dealer/User (authorized technician)

Repairs
- Dealer

Decontamination
- Not specified

Durability/Ruggedness
- Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties

Environmental Conditions
- -22 °F to 140 °F

Unit Cost
- $850

Battery Cycle Life
- 10 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life
- Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with pre-conditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost
- Not specified

Interface Capability
- Not specified

Special Requirements

Operator Skills Required
- Experienced

Operator Training Requirements
- Experienced

Training Available
- Yes

Manuals Available
- Yes

Applicable Regulations
- Not specified

Support Equipment
- Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty
- 2 yr

Mil Spec/Mil-Std Ratings
- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe
- Yes
Kenwood Trunked Mobile Radio; TK-980 NSPAC

Model Number(s) TK-980 NSPAC
Technology Mobile, trunked
Manufacturer Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801
POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

Secure Communication Capability Encryption/scrambler control
Availability Available
Frequency Range 800 MHz
Number of Personnel Supported by System Multiple
Geographic Coverage Not specified
Current User(s) Not specified
Source Kenwood

Operational Parameters

Number of Channels Trunked: 32 systems
Conventional: 250 channels
Transmitter Power Output Levels 15 W
Battery Options Not applicable
Battery Recharging Options Not applicable

Physical Parameters

Size 5.5 in x 1.5 in x 5.7 in
Weight 2.1 lb
Power Requirements 13.6 V dc
External Power Not applicable

Available Accessories

Speaker-Microphones Not applicable
Carrying Cases Not applicable
Battery Eliminators Not applicable
Vehicle Adapters: Not applicable

**Logistical Parameters**

- **Programming**: Dealer/User (authorized technician)
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Rugged use
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: $634
- **Battery Cycle Life**: Not applicable
- **Rapid Charge Battery Cycle Life**: Not applicable
- **Maintenance Cost**: Not specified
- **Interface Capability**: Not specified

**Special Requirements**

- **Operator Skills Required**: Average
- **Operator Training Requirements**: Average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **Applicable Regulations**: Not specified
- **Support Equipment**
  - Control head cables, line filter, key lock adapter, control station mounting case for power supply, mobile mounting bracket, control conversion kit, microphones, keypad, dc power supply, 220 V dc power supply, mobile programming interface cable, and programming software disk
- **Warranty**: 2 yr
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- **Intrinsically Safe**: No
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th><strong>Kenwood Synthesized FM Portable Radio/Trunked System; TK-280</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>Kenwood Synthesized FM Portable Radio/Trunked System; TK-280</td>
</tr>
<tr>
<td><strong>ID#</strong></td>
<td>80</td>
</tr>
</tbody>
</table>

| **Model Number(s)** | TK-280 |
| **Technology**      | Portable, conventional and trunked |
| **Manufacturer**    | Kenwood Communications Corporation |
| **P.O. Box 22745**  | East Dominguez St. |
| **Long Beach, California 90801** | POC: Barry Morris |
| **800−752−0986, ext. 8280 (Tel)** | Secure Communication Capability |

| **Encryption control provides secure voice communications. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.** |

| **Availability**  | Available |
| **Frequency Range** | 146 MHz to 174 MHz |
| **136 MHz to 162 MHz** | Multiple |
| **Number of Personnel Supported by System** | Not specified |
| **Geographic Coverage** | Not specified |
| **Current User(s)** | Kenwood |

| **Source** | Kenwood |

| **Operational Parameters** |

| **Number of Channels** | 250 channels (conventional mode)  
600 channels (trunked mode) |
| **Transmitter Power Output Levels** | Hi: 5 W; low: 1 W |
| **Battery Options** | 1100 mAh/8 h, 7.2 V dc NiCad battery, 1500 mAh/10 h, 7.2 V dc NiCad battery, intrinsically safe NiCad battery, and AA alkaline batteries |
| **Battery Recharging Options** | Six unit charger adapter, regular rate single unit desk charger, 220 V regular and rapid single unit desk charger, rapid and regular dc vehicular charger adapter, and rapid rate single unit with preconditioning discharge features |

<p>| <strong>Physical Parameters</strong> |
| <strong>Size</strong> | 2.3 in x 5.3 in x 1.3 in |</p>
<table>
<thead>
<tr>
<th><strong>Weight</strong></th>
<th>16 oz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Requirements</strong></td>
<td>7.5 V dc</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Available Accessories</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Speaker-Microphones</strong></td>
<td>Earphone kit, Mil Spec noise canceling speaker microphone, 2–wire palm microphone with earphone, lapel microphone with earphone, and single muff headset with boom microphone</td>
</tr>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case</td>
</tr>
<tr>
<td><strong>Battery Eliminators</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Vehicle Adapters</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Programming</strong></td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td><strong>Repairs</strong></td>
<td>Dealer</td>
</tr>
<tr>
<td><strong>Decontamination</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Durability/Ruggedness</strong></td>
<td>Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. Water resistant in wet weather.</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td><strong>Unit Cost</strong></td>
<td>$520</td>
</tr>
<tr>
<td><strong>Battery Cycle Life</strong></td>
<td>At least 8 h with 5/5/90 cycle</td>
</tr>
<tr>
<td><strong>Rapid Charge Battery Cycle Life</strong></td>
<td>Six unit charger adapter rapid rate, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and rapid rate dc vehicular charger adapter</td>
</tr>
<tr>
<td><strong>Maintenance Cost</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Interface Capability</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operator Skills Required</strong></td>
<td>Average</td>
</tr>
<tr>
<td><strong>Operator Training Requirements</strong></td>
<td>Average</td>
</tr>
<tr>
<td><strong>Training Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Manuals Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Applicable Regulations</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Support Equipment</strong></td>
<td>Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>2 yr</td>
</tr>
<tr>
<td><strong>Mil Spec/Mil-Std Ratings</strong></td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td><strong>Intrinsically Safe</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>
**General**

Name  
Kenwood Synthesized FM Portable Radio/Trunked System; TK-380

ID# 81

Model Number(s)  
TK-380

Technology  
Portable, conventional and trunked

Manufacturer  
Kenwood Communications Corporation
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801

POC: Barry Morris  
800–752–0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control provides secure voice communications.  
An internal port permits addition of optional modules to  
provide voice scrambling from low-level inversion to  
high-level encryption types.

Availability  
Available

Frequency Range  
403 MHz to 430 MHz  
450 MHz to 490 MHz  
470 MHz to 512 MHz

Number of Personnel Supported by System  
Multiple

Geographic Coverage  
Not specified

Current User(s)  
Not specified

Source  
Kenwood

**Operational Parameters**

Number of Channels  
250 channels (conventional mode)  
600 channels (trunked mode)

Transmitter Power Output Levels  
Hi: 4 W; low: 1 W

Battery Options  
1100 mAh/8 h, 7.2 V dc NiCad battery, 1500 mAh/10 h,  
7.2 V dc NiCad battery, intrinsically safe NiCad battery,  
and AA alkaline batteries

Battery Recharging Options  
Six unit charger adapter, regular rate single unit desk charger,  
220 V regular and rapid single unit desk charger,  
rapid and regular dc vehicular charger adapter, and rapid  
rate single unit with preconditioning discharge features

**Physical Parameters**

Size  
2.3 in x 5.3 in x 1.3 in
<table>
<thead>
<tr>
<th><strong>Weight</strong></th>
<th>16 oz</th>
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<tbody>
<tr>
<td><strong>Power Requirements</strong></td>
<td>7.5 V dc</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Available Accessories</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Speaker-Microphones</strong></td>
<td>Earphone kit, Mil Spec noise canceling speaker microphone, 2–wire palm microphone with earphone, lapel microphone with earphone, and single muff headset with boom microphone</td>
</tr>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case</td>
</tr>
<tr>
<td><strong>Battery Eliminators</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Vehicle Adapters</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Programming</strong></td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td><strong>Repairs</strong></td>
<td>Dealer</td>
</tr>
<tr>
<td><strong>Decontamination</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Durability/Ruggedness</strong></td>
<td>Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. Water resistant in wet weather.</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>-22 °F to 140 °F</td>
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<tr>
<td><strong>Unit Cost</strong></td>
<td>$570</td>
</tr>
<tr>
<td><strong>Battery Cycle Life</strong></td>
<td>At least 8 h with 5/5/90 cycle</td>
</tr>
<tr>
<td><strong>Rapid Charge Battery Cycle Life</strong></td>
<td>Six unit charger adapter rapid rate, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and rapid rate dc vehicular charger adapter</td>
</tr>
<tr>
<td><strong>Maintenance Cost</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Interface Capability</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operator Skills Required</strong></td>
<td>Average</td>
</tr>
<tr>
<td><strong>Operator Training Requirements</strong></td>
<td>Average</td>
</tr>
<tr>
<td><strong>Training Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Manuals Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Applicable Regulations</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Support Equipment</strong></td>
<td>Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>2 yr</td>
</tr>
<tr>
<td><strong>Mil Spec/Mil-Std Ratings</strong></td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td><strong>Intrinsically Safe</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>
Kenwood 800/900 MHz FM Transceiver; TK-480 and TK-480 NPSPAC

Model Number(s) | TK-480 and TK-480 NPSPAC

Technology       | Portable, trunked system

Manufacturer     | Kenwood Communications Corporation
                 | P.O. Box 22745
                 | East Dominguez St.
                 | Long Beach, California 90801

Secure Communication Capability
Encryption control for security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability     | Available

Frequency Range  | 851 MHz to 870 MHz
                 | 806 MHz to 825 MHz

Number of Personnel Supported by System | Multiple

Geographic Coverage | Not specified

Current User(s)   | Not specified

Source | Kenwood

Operational Parameters

Number of Channels | Systems: 32
                   | Groups: 250 per system
                   | Channels: 486 per system

Transmitter Power Output Levels | 1 W to 2.5 W

Battery Options
1100 mAh/8 h NiCad battery; 1500 mAh/10 h NiCad battery, and intrinsically safe NiCad battery

Battery Recharging Options
Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters
Size | 2.3 in x 5.3 in x 1.3 in
Weight
16 oz

Power Requirements
7.5 V dc

External Power
No

Available Accessories

Speaker-Microphones
Earphone kit, Mil Spec noise canceling speaker microphone, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone

Carrying Cases
Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case

Battery Eliminators
Not specified

Vehicle Adapters
Not specified

Logistical Parameters

Programming
Dealer/User (authorized technician)

Repairs
Dealer

Decontamination
Not specified

Durability/Ruggedness
Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties. Polyvinyl keypad membrane and speaker cone prevent moisture penetration.

Environmental Conditions
-22 °F to 140 °F

Unit Cost
$640

Battery Cycle Life
At least 8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life
Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost
Not specified

Interface Capability
Digital ANI Modules by Cimarron Technologies

Special Requirements

Operator Skills Required
Average

Operator Training Requirements
Average

Training Available
Yes

Manuals Available
Yes

Applicable Regulations
Not specified

Support Equipment
Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty
2 yr

Mil Spec/Mil-Std Ratings
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe
Yes
### General

**Name**
Kenwood 800/900 MHz FM Transceiver; TK-481

**ID#** 83

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<table>
<thead>
<tr>
<th><strong>Model Number(s)</strong></th>
<th>TK-481</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Portable, trunked system</td>
</tr>
</tbody>
</table>
| **Manufacturer**    | Kenwood Communications Corporation  
                      | P.O. Box 22745  
                      | East Dominguez St.  
                      | Long Beach, California 90801 |

**Secure Communication Capability**

Encryption control for security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

**Availability**

Available

**Frequency Range**

896 MHz to 902 MHz TX  
935 MHz to 941 MHz RX

**Number of Personnel Supported by System**

Multiple

**Geographic Coverage**

Not specified

**Current User(s)**

Not specified

**Source**

Kenwood

---

### Operational Parameters

**Number of Channels**

Systems: 32  
Groups: 250 per system  
Channels: 486 per system

**Transmitter Power Output Levels**

1 W to 2.5 W

**Battery Options**

1100 mAh/8 h NiCad battery; 1500 mAh/10 h NiCad battery, and intrinsically safe NiCad battery

**Battery Recharging Options**

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

---

### Physical Parameters

**Size**

2.3 in x 5.3 in x 1.3 in
Weight 16 oz
Power Requirements 7.5 V dc
External Power No

Available Accessories
Speaker-Microphones Earphone kit, Mil Spec noise canceling speaker microphone, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone
Carrying Cases Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators Not specified
Vehicle Adapters No

Logistical Parameters
Programming Dealer/User (authorized technician)
Repairs Dealer
Decontamination Not specified
Durability/Ruggedness Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties. Polyvinyl keypad membrane and speaker cone prevent moisture penetration.

Environmental Conditions

Unit Cost $640
Battery Cycle Life At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost Not specified
Interface Capability Digital ANI Modules by Cimarron Technologies

Special Requirements
Operator Skills Required Average
Operator Training Requirements Average
Training Available Yes
Manuals Available Yes
Applicable Regulations Not specified
Support Equipment Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty

2 yr
Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe Optional
**General**

**Name**  
Kenwood Trunked Portable Radios; TK-930HDK2
NSPAC

**ID# 84**

**Picture Not Available**

**Model Number(s)**  
TK-930HDK2 NSPAC

**Technology**  
Portable, trunked system

**Manufacturer**  
Kenwood Communications Corporation
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801

POC: Barry Morris  
800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**  
Yes

**Availability**  
Available

**Frequency Range**  
800 MHz

**Number of Personnel Supported by System**  
Multiple

**Geographic Coverage**  
Not specified

**Current User(s)**  
Not specified

**Source**  
Kenwood

**Operational Parameters**

**Number of Channels**  
LTR: 10 systems/200 trunked, 10 groups

**Transmitter Power Output Levels**  
15 W to 35 W

**Battery Options**  
Not applicable

**Battery Recharging Options**  
None

**Physical Parameters**

**Size**  
5.9 in x 2 in x 8.7 in

**Weight**  
3.5 lb

**Power Requirements**  
13.6 V dc

**External Power**  
Yes

**Available Accessories**

**Speaker-Microphones**  
Yes

**Carrying Cases**  
Not applicable

**Battery Eliminators**  
No

**Vehicle Adapters**  
Yes
Logistical Parameters

Programming Dealer/User (authorized technician) programmable - PC friendly

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Standard use

Environmental Conditions -22 °F to 140 °F

Unit Cost $915

Battery Cycle Life Not applicable

Rapid Charge Battery Cycle Life Not applicable

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations Not specified

Support Equipment Available

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe No
**Kenwood Trunked Compact Mobile Radio; TK-980**

**General**
- **Name**: Kenwood Trunked Compact Mobile Radio; TK-980
- **ID#**: 85

**Model Number(s)**
- TK-980

**Technology**
- Mobile, conventional and trunked

**Manufacturer**
- Kenwood Communications Corporation
- P.O. Box 22745
- East Dominguez St.
- Long Beach, California 90801
- POC: Barry Morris
  - 800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**
- Encryption control: An internal port permits addition of optional modules for user-defined voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

**Availability**
- Available

**Frequency Range**
- Type 1 851 MHz to 870 MHz RX
- Type 2 806 MHz to 825 MHz TX
- Type 3 851–870 MHz talk around

**Number of Personnel Supported by System**
- Multiple

**Geographic Coverage**
- Not specified

**Current User(s)**
- Not specified

**Source**
- Kenwood

**Operational Parameters**
- **Number of Channels**
  - Systems: maximum 32 channels
  - Groups: maximum 250 channels
  - Channels: maximum 600

- **Transmitter Power Output Levels**
  - 15 W

- **Battery Options**
  - Not applicable

- **Battery Recharging Options**
  - Not applicable

**Physical Parameters**
- **Size**
  - 5.5 in x 1.6 in x 5.7 in

- **Weight**
  - 2.1 lb

- **Power Requirements**
  - 13.6 V dc ± 15 %
External Power

**Available Accessories**

- Speaker-Microphones: Not applicable
- Carrying Cases: Not applicable
- Battery Eliminators: Not applicable
- Vehicle Adapters: Not applicable

**Logistical Parameters**

- Programming: Dealer/User (authorized technician)
- Repairs: Dealer
- Decontamination: Not specified
- Durability/Ruggedness: Aluminum die-cast chassis gives strength to the unit and provides for natural heat dissipation. Interlocking metal covers and seals lockout moist and dust.

**Environmental Conditions**

- Unit Cost: $550
- Battery Cycle Life: Not applicable
- Rapid Charge Battery Cycle Life: Not applicable
- Maintenance Cost: Not specified
- Interface Capability: Not specified

**Special Requirements**

- Operator Skills Required: Average
- Operator Training Requirements: Average
- Training Available: Yes
- Manuals Available: Yes
- Applicable Regulations: FCC, FCC Compliance, IC Certification
- Support Equipment: Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessory connector cable, dc power supply, eternal speakers, line noise filter, mounting case, key lock adapter, and PA/HA unit

**Warranty**

- 2 yr

**Mil Spec/Mil-Std Ratings**

- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**

- No
**General**

<table>
<thead>
<tr>
<th>Name</th>
<th>Kenwood Trunked Compact Mobile Radio; TK-81</th>
</tr>
</thead>
</table>

| ID# | 86 |

**Model Number(s)**

| TK-981 |

**Technology**

Mobile, conventional and trunked

**Manufacturer**

Kenwood Communications Corporation  
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801

**POC:** Barry Morris  
800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**

Encryption control: An internal port permits addition of optional modules for user-defined voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

**Availability**

Available

**Frequency Range**

- Type 1 935 MHz to 941 MHz RX  
- Type 2 896 MHz to 902 MHz TX  
- Type 3 935 MHz to 941 MHz talk around

**Number of Personnel Supported by System**

Multiple

**Geographic Coverage**

Not specified

**Current User(s)**

Not specified

**Source**

Kenwood

**Operational Parameters**

**Number of Channels**

- Systems: maximum 32 channels  
- Groups: maximum 250 channels  
- Channels: maximum 600

**Transmitter Power Output Levels**

15 W

**Battery Options**

Not applicable

**Battery Recharging Options**

Not applicable

**Physical Parameters**

<table>
<thead>
<tr>
<th>Size</th>
<th>5.5 in x 1.6 in x 5.7 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.1 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>13.6 V dc ± 15 %</td>
</tr>
</tbody>
</table>
Available Accessories

External Power  
Not applicable

Speaker-Microphones  
Not applicable

Carrying Cases  
Not applicable

Battery Eliminators  
Not applicable

Vehicle Adapters  
Not applicable

Logistical Parameters

Programming  
Dealer/User (authorized technician)

Repairs  
Dealer

Decontamination  
Not specified

Durability/Ruggedness  
Aluminum die-cast chassis gives strength to the unit and provides for natural heat dissipation. Interlocking metal covers and seals lockout moist and dust.

Environmental Conditions  
-22 °F to 140 °F

Unit Cost  
$550

Battery Cycle Life  
Not applicable

Rapid Charge Battery Cycle Life  
Not applicable

Maintenance Cost  
Not specified

Interface Capability  
Not specified

Special Requirements

Operator Skills Required  
Average

Operator Training Requirements  
Average

Training Available  
Yes

Manuals Available  
Yes

Applicable Regulations  
FCC, FCC Compliance, IC Certification

Support Equipment  
Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessory connector cable, dc power supply, eternal speakers, line noise filter, mounting case, key lock adapter, and PA/HA unit

Warranty  
2 yr

Mil Spec/Mil-Std Ratings  
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe  
No
### General

**Name**
Kenwood VHF Base Transceiver; TKB-720

**ID#** 87

### Model Number(s)
TKB-720

### Technology
Base radio, conventional

### Manufacturer
Kenwood Communications Corporation  
P.O. Box 22745  
East Dominguez St.  
Long Beach, California 90801

POC: Barry Morris  
800–752–0986, ext. 8280 (Tel)

### Secure Communication Capability
No

### Availability
Available

### Frequency Range
150 MHz to 174 MHz

### Number of Personnel Supported by System
Unlimited

### Geographic Coverage
Not specified

### Current User(s)
Not specified

### Source
Kenwood

### Operational Parameters

<table>
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<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Number of Channels</td>
<td>9 to 16 channels</td>
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<tr>
<td>Transmitter Power Output Levels</td>
<td>20 W to 50 W</td>
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<tr>
<td>Battery Options</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>Not applicable</td>
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</table>

### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Size</td>
<td>4.7 in x 13 in x 15.1 in</td>
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<tr>
<td>Weight</td>
<td>27.6 lb</td>
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<tr>
<td>Power Requirements</td>
<td>120 V ac 50 Hz/60 Hz</td>
</tr>
<tr>
<td>External Power</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Available Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Yes</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
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### Vehicle Adapters

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
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<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Standard use</td>
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<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
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<tr>
<td>Unit Cost</td>
<td>Not specified</td>
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<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
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<tr>
<td>Maintenance Cost</td>
<td>Not applicable</td>
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<tr>
<td>Interface Capability</td>
<td>Not specified</td>
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**Special Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
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<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
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<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
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<tr>
<td>Training Available</td>
<td>Yes</td>
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<td>Manuals Available</td>
<td>Yes</td>
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<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
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<td>Support Equipment</td>
<td>Available</td>
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<tr>
<td>Warranty</td>
<td>2 yr</td>
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<td>Mil Spec/Mil-Std Ratings</td>
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<td>Intrinsically Safe</td>
<td>No</td>
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### General

<table>
<thead>
<tr>
<th>Name</th>
<th>Kenwood VHF/UHF Repeater; TKR-720</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID#</td>
<td>88</td>
</tr>
</tbody>
</table>

*Picture Not Available*

### Model Number(s)

| TKR-720 |

### Technology

| Repeater, conventional |

### Manufacturer

<table>
<thead>
<tr>
<th>Kenwood Communications Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 22745</td>
</tr>
<tr>
<td>East Dominguez St.</td>
</tr>
<tr>
<td>Long Beach, California 90801</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POC: Barry Morris</th>
</tr>
</thead>
<tbody>
<tr>
<td>800–752–0986, ext. 8280 (Tel)</td>
</tr>
</tbody>
</table>

### Operational Parameters

#### Secure Communication Capability

| No |

#### Availability

| Available |

#### Frequency Range

| 150 MHz to 174 MHz |

#### Number of Personnel Supported by System

| Unlimited |

#### Geographic Coverage

| Not applicable |

#### Current User(s)

| Not specified |

#### Source

| Kenwood |

### Operational Parameters

#### Number of Channels

| 1 channel |

#### Transmitter Power Output Levels

| 15 W to 50 W |

#### Battery Options

| Not applicable |

#### Battery Recharging Options

| Not applicable |

### Physical Parameters

#### Size

| 4.8 in x 13 in x 15 in |

#### Weight

| 28.7 lb |

#### Power Requirements

| 120 V ac 50 Hz/60 Hz |

#### External Power

| Yes |

### Available Accessories

#### Speaker-Microphones

| Yes |

#### Carrying Cases

| Not applicable |

#### Battery Eliminators

| Not applicable |

#### Vehicle Adapters

| Not applicable |
### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Standard use</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
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</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Operator Skills Required</td>
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<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
</tr>
<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
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<tr>
<td>Support Equipment</td>
<td>Available</td>
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<td>Warranty</td>
<td>2 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Yes</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
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</tbody>
</table>
**General**

**Name**
Kenwood UHF Repeater; TKR-820

**ID#** 89

**Model Number(s)**
TKR-820

**Technology**
Repeater, conventional desktop repeater

**Manufacturer**
Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800–752–0986, ext. 8280 (Tel)

**Secure Communication Capability**
No

**Availability**
Available

**Frequency Range**
406 MHz to 512 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
Not applicable

**Current User(s)**
Not specified

**Source**
Kenwood

### Operational Parameters

**Number of Channels**
1 channel

**Transmitter Power Output Levels**
2 W to 20 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

### Physical Parameters

**Size**
48 in x 13 in x 15 in

**Weight**
28.7 lb

**Power Requirements**
120 V ac 50 Hz/60 Hz

**External Power**
Yes

### Available Accessories

**Speaker-Microphones**
Yes

**Carrying Cases**
Not applicable

**Battery Eliminators**
Not applicable

**Vehicle Adapters**
Not applicable
### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
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<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
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</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
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</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
</tr>
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</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
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<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Applicable Regulations</td>
<td>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 yr</td>
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<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Yes</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
### General

- **Name**: Motorola Astro Transceiver, Portable; Saber 1
- **ID#**: 90

### Model Number(s)
- Astro Saber 1

### Technology
- Portable, conventional and trunked

### Manufacturer
- Motorola USA
- 1301 E. Algonquin Road
- Schaumburg, Illinois 60196
- 800–247–2346 (Tel)

### POC
- Ron Zeberlein
- 410–712–6014 (Tel)

### Secure Communication Capability
- Yes

### Availability
- Available

### Frequency Range
- VHF: 136 MHz to 174
- UHF: 403 MHz to 470, 450 MHz to 520 MHz
- 800: 806 MHz to 870 MHz

### Number of Personnel Supported by System
- Multiple

### Geographic Coverage
- Not specified

### Current User(s)
- Not specified

### Source
- Motorola

### Operational Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Channels</td>
<td>16 channels to 32 channels</td>
</tr>
<tr>
<td>Transmitter Power Output Levels</td>
<td>1 W to 5 W</td>
</tr>
<tr>
<td>Battery Options</td>
<td>1 NiCad 1000 mAH; 1 NiCad 1100 mAH; 4 NiCad 1800 mAH; 1 NiMH 1650 mAH; and 1 Lithium Ion</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers</td>
</tr>
</tbody>
</table>

### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>5.2 in x 2.9 in x 1.2 in (without battery)</td>
</tr>
<tr>
<td>Weight</td>
<td>13 oz (without battery)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>7.5 V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>Yes, with optional vehicular adapter</td>
</tr>
</tbody>
</table>
### Available Accessories

**Speaker-Microphones**
- 4 standard models available; 5 ear worn speaker microphones available

**Carrying Cases**
- 6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

**Battery Eliminators**
- No

**Vehicle Adapters**
- Yes

### Logistical Parameters

**Programming**
- Dealer/User (authorized technician)

**Repairs**
- Dealer

**Decontamination**
- Not specified

**Durability/Ruggedness**
- Standard use

**Environmental Conditions**
- -22 °F to 140 °F

**Unit Cost**
- $1.5K Manufacturer Suggested Retail Price (MSRP)
  - Contact dealer for discount pricing

**Battery Cycle Life**
- Not specified

**Rapid Charge Battery Cycle Life**
- Not applicable

**Maintenance Cost**
- Not specified

**Interface Capability**
- Digital capable

### Special Requirements

**Operator Skills Required**
- Average

**Operator Training Requirements**
- Average

**Training Available**
- Yes

**Manuals Available**
- Yes

**Applicable Regulations**
- Not specified

**Support Equipment**
- Available

**Warranty**
- 1 yr

**Mil Spec/Mil-Std Ratings**
- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**
- Yes
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th><strong>Motorola Astro Transceiver, Portable; Saber 2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ID# 91</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Model Number(s)</strong></td>
<td>Astro Saber 2</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td>Portable, conventional and trunked</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Motorola USA</td>
</tr>
<tr>
<td></td>
<td>1301 E. Algonquin Road</td>
</tr>
<tr>
<td></td>
<td>Schaumburg, Illinois 60196</td>
</tr>
<tr>
<td></td>
<td>800−247−2346 (Tel)</td>
</tr>
<tr>
<td></td>
<td>POC: Ron Zeberlein</td>
</tr>
<tr>
<td></td>
<td>410−712−6014 (Tel)</td>
</tr>
<tr>
<td><strong>Secure Communication Capability</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Available</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>VHF: 136 MHz to 174 MHz</td>
</tr>
<tr>
<td></td>
<td>UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz</td>
</tr>
<tr>
<td></td>
<td>800: 806 MHz to 870 MHz</td>
</tr>
<tr>
<td><strong>Number of Personnel Supported by</strong></td>
<td>Multiple</td>
</tr>
<tr>
<td><strong>System</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Geographic Coverage</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Current User(s)</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Motorola</td>
</tr>
</tbody>
</table>

| **Operational Parameters**         |                                                                        |
| **Number of Channels**             | 255 channels                                                          |
| **Transmitter Power Output Levels**| 1 W to 5 W                                                            |
| **Battery Options**                | 1 NiCad 1000 mAH; 1 NiCad 1100 mAH; 4 NiCad 1800 mAH; 1 NiMH 1650 mAH; and 1 Lithium Ion |
| **Battery Recharging Options**     | 2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers |

| **Physical Parameters**            |                                                                        |
| **Size**                           | 5.2 in x 2.9 in x 1.2 in (without battery)                            |
| **Weight**                         | 12.8 oz (without battery)                                             |
| **Power Requirements**             | 7.5 V dc                                                              |
| **External Power**                 | Yes, with optional vehicular adapter                                  |
## Available Accessories

**Speaker-Microphones**
- 4 standard models available; 5 ear worn speaker microphones available

**Carrying Cases**
- 6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

**Battery Eliminators**
- No

**Vehicle Adapters**
- Yes

## Logistical Parameters

**Programming**
- Dealer/User (authorized technician)

**Repairs**
- Dealer

**Decontamination**
- Not specified

**Durability/Ruggedness**
- Standard use

**Environmental Conditions**
- -22 °F to 140 °F

**Unit Cost**
- $1.8K MSRP
- Contact dealer for discount pricing

**Battery Cycle Life**
- Not specified

**Rapid Charge Battery Cycle Life**
- Not applicable

**Maintenance Cost**
- Not specified

**Interface Capability**
- Digital capable

## Special Requirements

**Operator Skills Required**
- Average

**Operator Training Requirements**
- Average

**Training Available**
- Yes

**Manuals Available**
- Yes

**Applicable Regulations**
- Not specified

**Support Equipment**
- Available

**Warranty**
- 1 yr

**Mil Spec/Mil-Std Ratings**
- Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**
- Yes
**General**

**Name**
Motorola Astro Transceiver, Portable; Saber 3

**ID#** 92

**Model Number(s)**
Saber 3

**Technology**
Portable, conventional and trunked

**Manufacturer**
Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800–247–2346 (Tel)

POC: Ron Zeberlein
410–712–6014 (Tel)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 870 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Motorola

**Operational Parameters**

**Number of Channels**
255 channels

**Transmitter Power Output Levels**
1 W to 5 W

**Battery Options**
1 NiCad 1000 mAH; 1 NiCad 1100 mAH; 4 NiCad 1800 mAH; 1 NiMH 1650 mAH; and 1 Lithium Ion

**Battery Recharging Options**
2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers

**Physical Parameters**

**Size**
5.2 in x 2.9 in x 1.2 in (without battery)

**Weight**
12.8 oz (without battery)

**Power Requirements**
7.5 V dc
### External Power

Yes, with optional vehicular adapter

### Available Accessories

**Speaker-Microphones**

4 standard models available; 5 ear worn speaker microphones available

**Carrying Cases**

6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

**Battery Eliminators**

No

**Vehicle Adapters**

Yes

### Logistical Parameters

**Programming**

Dealer/User (authorized technician)

**Repairs**

Dealer

**Decontamination**

Not specified

**Durability/Ruggedness**

Standard use

**Environmental Conditions**

-22 °F to 140 °F

**Unit Cost**

$2K MSRP

Contact dealer for discount pricing

**Battery Cycle Life**

Not specified

**Rapid Charge Battery Cycle Life**

Not applicable

**Maintenance Cost**

Not specified

**Interface Capability**

Digital capable

### Special Requirements

**Operator Skills Required**

Average

**Operator Training Requirements**

Average

**Training Available**

Yes

**Manuals Available**

Yes

**Applicable Regulations**

Not specified

**Support Equipment**

Available

**Warranty**

1 yr

**Mil Spec/Mil-Std Ratings**

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**

Yes
**General**

Name

ID# 93

---

**Motorola Astro Transceiver, Portable; XTS 3000 Model 1**

---

**Model Number(s)**

XTS 3000 Model I

**Technology**

Portable, conventional and trunked

**Manufacturer**

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800–247–2346 (Tel)

POC: Ron Zeberlein
410–712–6014 (Tel)

---

**Secure Communication Capability**

Yes

**Availability**

Available

**Frequency Range**

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

**Number of Personnel Supported by System**

Multiple

**Geographic Coverage**

Not specified

**Current User(s)**

Not specified

**Source**

Motorola

---

**Operational Parameters**

**Number of Channels**

16 to 48 channels

**Transmitter Power Output Levels**

1 W to 5 W

**Battery Options**

3 NiCad 1500 mAH; 2 NiMH 1650 & 1800 mAH; and 1 Lithium Ion 1500 mAH

**Battery Recharging Options**

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

---

**Physical Parameters**

**Size**

6.6 in x 2.4 in x 1.7 in (without battery)

**Weight**

14.4 oz (without battery)

**Power Requirements**

6 V dc to 9 V dc

**External Power**

No
### Available Accessories
- **Speaker-Microphones**: 5 standard models available; 3 ear worn speaker microphones available.
- **Carrying Cases**: 8 leather carrying cases; universal chest pack; and standard chest pack.
- **Battery Eliminators**: No.
- **Vehicle Adapters**: No.

### Logistical Parameters
- **Programming**: Dealer/User (authorized technician).
- **Repairs**: Dealer.
- **Decontamination**: Not specified.
- **Durability/Ruggedness**: Designed for ruggedness; and weather sealed universal connector.
- **Environmental Conditions**: -22 °F to 140 °F.
- **Unit Cost**: $1.7K MSRP, add $250 for ruggedized version (see Item # 113) and contact dealer for discount pricing.
- **Battery Cycle Life**: Not specified.
- **Rapid Charge Battery Cycle Life**: Not applicable.
- **Maintenance Cost**: Not specified.
- **Interface Capability**: Digital capable.

### Special Requirements
- **Operator Skills Required**: Average.
- **Operator Training Requirements**: Average.
- **Training Available**: Yes.
- **Manuals Available**: Yes.
- **Applicable Regulations**: Not specified.
- **Support Equipment**: Available.
- **Warranty**: 1 yr.
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E.
- **Intrinsically Safe**: No.
<table>
<thead>
<tr>
<th>General</th>
<th>Motorola Astro Transceiver, Portable; XTS 3000 Model 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>ID# 94</td>
</tr>
<tr>
<td><strong>Model Number(s)</strong></td>
<td>XTS 3000 Model II</td>
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<tr>
<td><strong>Technology</strong></td>
<td>Portable, conventional and trunked</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Motorola USA</td>
</tr>
<tr>
<td></td>
<td>1301 E. Algonquin Road</td>
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<td>Schaumburg, Illinois 60196</td>
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<td>800–247–2346 (Tel)</td>
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<tr>
<td></td>
<td>POC: Ron Zeberlein</td>
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<tr>
<td></td>
<td>410–712–6014 (Tel)</td>
</tr>
<tr>
<td><strong>Secure Communication Capability</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
<td>Available</td>
</tr>
<tr>
<td><strong>Frequency Range</strong></td>
<td>VHF: 136 MHz to 174 MHz</td>
</tr>
<tr>
<td></td>
<td>UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz</td>
</tr>
<tr>
<td></td>
<td>800: 806 MHz to 824 MHz, 851 MHz to 870 MHz</td>
</tr>
<tr>
<td><strong>Number of Personnel Supported by System</strong></td>
<td>Multiple</td>
</tr>
<tr>
<td><strong>Geographic Coverage</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Current User(s)</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>Motorola</td>
</tr>
<tr>
<td><strong>Operational Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Number of Channels</strong></td>
<td>255 channels</td>
</tr>
<tr>
<td><strong>Transmitter Power Output Levels</strong></td>
<td>1 W to 5 W</td>
</tr>
<tr>
<td><strong>Battery Options</strong></td>
<td>3 NiCad 1500 mAH; 2 NiMH 1650 &amp; 1800 mAH; and 1 Lithium Ion 1500 mAH</td>
</tr>
<tr>
<td><strong>Battery Recharging Options</strong></td>
<td>6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers</td>
</tr>
<tr>
<td><strong>Physical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>6.6 in x 2.4 in x 1.7 in (without battery)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>14.4 oz (without battery)</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>6 V dc to 9 V dc</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>No</td>
</tr>
</tbody>
</table>
### Available Accessories
- **Speaker-Microphones**: 5 standard models available; 3 ear worn speaker microphones available
- **Carrying Cases**: 8 leather carrying cases; universal chest pack; and standard chest pack
- **Battery Eliminators**: No
- **Vehicle Adapters**: No

### Logistical Parameters
- **Programming**: Dealer/User (authorized technician)
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Designed for ruggedness; and weather sealed universal connector
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: $2K MSRP, add $250 for ruggedized version (see ID# 113), and contact dealer for discount pricing
- **Battery Cycle Life**: Not specified
- **Rapid Charge Battery Cycle Life**: Not applicable
- **Maintenance Cost**: Not specified
- **Interface Capability**: Digital capable

### Special Requirements
- **Operator Skills Required**: Average
- **Operator Training Requirements**: Average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **Applicable Regulations**: Not specified
- **Support Equipment**: Available
- **Warranty**: 1 yr
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- **Intrinsically Safe**: No
**General**

*Name*

Motorola Astro Transceiver, Portable; XTS 3000 Model 3

*ID# 95*

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>XTS 3000 Model III</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Portable, conventional and trunked</td>
</tr>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Motorola USA</td>
</tr>
<tr>
<td></td>
<td>1301 E. Algonquin Road</td>
</tr>
<tr>
<td></td>
<td>Schaumburg, Illinois 60196</td>
</tr>
<tr>
<td></td>
<td>800–247–2346 (Tel)</td>
</tr>
<tr>
<td></td>
<td>POC: Ron Zeberlein</td>
</tr>
<tr>
<td></td>
<td>410–712–6014 (Tel)</td>
</tr>
</tbody>
</table>

| **Secure Communication Capability** | Yes |
| **Availability**                   | Available |
| **Frequency Range**                | VHF: 136 MHz to 174 MHz |
|                                    | UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz |
|                                    | 800: 806 MHz to 824 MHz, 851 MHz to 870 MHz |
| **Number of Personnel Supported by System** | Multiple |
| **Geographic Coverage**            | Not specified |
| **Current User(s)**               | Not specified |
| **Source**                        | Motorola |

**Operational Parameters**

| **Number of Channels**             | 255 channels |
| **Transmitter Power Output Levels**| 1 W to 5 W |
| **Battery Options**                | 3 NiCad 1500 mAH; 2 NiMH 1650 & 1800 mAH; and 1 Lithium Ion 1500 mAH |
| **Battery Recharging Options**     | 6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers |

**Physical Parameters**

| **Size**                  | 6.6 in x 2.4 in x 1.7 in (without battery) |
| **Weight**                | 14.4 oz (without battery) |
| **Power Requirements**    | 6 V dc to 9 V dc |
| **External Power**        | No |
**Available Accessories**

**Speaker-Microphones**
5 standard models available; 3 ear worn speaker microphones available

**Carrying Cases**
8 leather carrying cases; universal chest pack; and standard chest pack

**Battery Eliminators**
No

**Vehicle Adapters**
No

**Logistical Parameters**

**Programming**
Dealer/User (authorized technician)

**Repairs**
Dealer

**Decontamination**
Not specified

**Durability/Ruggedness**
Designed for ruggedness; weather sealed universal connector

**Environmental Conditions**
-22 °F to 140 °F

**Unit Cost**
$2.4K MSRP, add $250 for ruggedized version (see ID# 113), and contact dealer for discount pricing

**Battery Cycle Life**
Not specified

**Rapid Charge Battery Cycle Life**
Not applicable

**Maintenance Cost**
Not specified

**Interface Capability**
Digital capable

**Special Requirements**

**Operator Skills Required**
Average

**Operator Training Requirements**
Average

**Training Available**
Yes

**Manuals Available**
Yes

**Applicable Regulations**
Not specified

**Support Equipment**
Available

**Warranty**
1 yr

**Mil Spec/Mil-Std Ratings**
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe**
No
**General**

**Name**  
Motorola Astro Transceiver, Portable; XTS 3000R Series Models 1, 2, & 3

**ID# 96**

<table>
<thead>
<tr>
<th><strong>Model Number(s)</strong></th>
<th>XTS 3000R Model 1, 2, or 3 (ruggedized versions of ID#s 96, 97, and 98)</th>
</tr>
</thead>
</table>

**Technology**  
Portable, conventional and trunked

**Manufacturer**  
Motorola USA  
1301 E. Algonquin Road  
Schaumburg, Illinois 60196  
800–247–2346 (Tel)

POC: Ron Zeberlein  
410–712–6014 (Tel)

**Secure Communication Capability**  
Yes

**Availability**  
Available

**Frequency Range**  
VHF: 136 MHz to 174 MHz  
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz  
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

**Number of Personnel Supported by System**  
Multiple

**Geographic Coverage**  
Not specified

**Current User(s)**  
Not specified

**Source**  
Motorola

**Operational Parameters**

**Number of Channels**  
Model I: 16/48 channels  
Model II and Model III: 255 channels

**Transmitter Power Output Levels**  
1 W to 5 W

**Battery Options**  
3 NiCad 1500 mAH; 2 NiMH 1650 & 1800 mAH; and 1 Lithium Ion 1500 mAH

**Battery Recharging Options**  
6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

**Physical Parameters**

**Size**  
6.6 in x 2.4 in x 1.7 in (without battery)

**Weight**  
14.4 oz (without battery)

**Power Requirements**  
6 V dc to 9 V dc
<table>
<thead>
<tr>
<th><strong>External Power</strong></th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Available Accessories</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Speaker-Microphones</strong></td>
<td>5 standard models available; 3 ear worn speaker microphones available</td>
</tr>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>8 leather carrying cases; universal chest pack; and standard chest pack</td>
</tr>
<tr>
<td><strong>Battery Eliminators</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Vehicle Adapters</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Programming</strong></td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td><strong>Repairs</strong></td>
<td>Dealer</td>
</tr>
<tr>
<td><strong>Decontamination</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Durability/Ruggedness</strong></td>
<td>Rugged, submersible (withstand up to 4 h under 6 ft of water-fresh or salt)</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td><strong>Unit Cost</strong></td>
<td>Add $250 to ID#'s 97, 98, 99 for ruggedized versions and contact dealer for discount pricing</td>
</tr>
<tr>
<td><strong>Battery Cycle Life</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Rapid Charge Battery Cycle Life</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Maintenance Cost</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Interface Capability</strong></td>
<td>Digital capable</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operator Skills Required</strong></td>
<td>Average</td>
</tr>
<tr>
<td><strong>Operator Training Requirements</strong></td>
<td>Average</td>
</tr>
<tr>
<td><strong>Training Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Manuals Available</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Applicable Regulations</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Support Equipment</strong></td>
<td>Available</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 yr</td>
</tr>
<tr>
<td><strong>Mil Spec/Mil-Std Ratings</strong></td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td><strong>Intrinsically Safe</strong></td>
<td>No</td>
</tr>
</tbody>
</table>
### General
- **Name**: Motorola Dual Mode Mobile; MCS 2000 Mobile Model I
- **ID#**: 97

### Model Number(s)
- MCS 2000 Mobile Model 1

### Technology
- Mobile conventional and trunked radio

### Manufacturer
- Motorola USA
- 1301 E. Algonquin Road
- Schaumburg, Illinois 60196
- 800–247–2346 (Tel)
- POC: Ron Zeberlein
- 410–712–6014 (Tel)

### Secure Communication Capability
- Yes

### Availability
- Available

### Frequency Range
- VHF: 136 MHz to 174 MHz
- UHF: 403 MHz to 512 MHz
- 800/900: 806 MHz to 870 MHz to 896 MHz to 941 MHz

### Number of Personnel Supported by System
- Multiple

### Geographic Coverage
- Not specified

### Current User(s)
- Not specified

### Source
- Motorola

### Operational Parameters
- **Number of Channels**: 48 with optional 150 channels
- **Transmitter Power Output Levels**: 1 W to 35 W
- **Battery Options**: Not applicable
- **Battery Recharging Options**: Not applicable

### Physical Parameters
- **Size**: 1.7 in x 6.6 in x 6.3 in
- **Weight**: 3.9 lb
- **Power Requirements**: 12 V dc
- **External Power**: Not applicable

### Available Accessories
- **Speaker-Microphones**: Not applicable
- **Carrying Cases**: Not applicable
Battery Eliminators                     Not applicable
Vehicle Adapters                       Not applicable

**Logistical Parameters**

Programming                             Dealer/User (authorized technician)
Repairs                                  Dealer
Decontamination                         Not specified
Durability/Ruggedness                   Standard use
Environmental Conditions                -22 °F to 140 °F
Unit Cost                                $958 MSRP and contact dealer for discount pricing
Battery Cycle Life                      Not specified
Rapid Charge Battery Cycle Life         Not specified
Maintenance Cost                        Not specified
Interface Capability                    No

**Special Requirements**

Operator Skills Required                Average
Operator Training Requirements         Average
Training Available                      Yes
Manuals Available                       Yes
Applicable Regulations                  Not specified
Support Equipment                      Available
Warranty                                1 yr
Mil Spec/Mil-Std Ratings                Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe                      Not specified
**General**

Name: Motorola Dual Mode Mobile; MCS 2000 Mobile Model II

ID# 98

**Model Number(s)**
MCS 2000 Mobile Model 2

**Technology**
Mobile, conventional and trunked radio

**Manufacturer**
Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800–247–2346 (Tel)

POC: Ron Zeberlein
410–712–6014 (Tel)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900 MHz: 806 MHz to 870 MHz to 896 MHz to 941 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Motorola

**Operational Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Channels</td>
<td>160 with optional 250 channels</td>
</tr>
<tr>
<td>Transmitter Power Output Levels</td>
<td>1 W to 35 W</td>
</tr>
<tr>
<td>Battery Options</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Recharging Options</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1.7 in x 6.6 in x 6.3 in</td>
</tr>
<tr>
<td>Weight</td>
<td>3.9 lb</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>12 V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Available Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Standard use</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$1.3K MSRP and contact dealer for discount pricing</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not specified</td>
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<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not specified</td>
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<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
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<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
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<tr>
<td>Training Available</td>
<td>Yes</td>
</tr>
<tr>
<td>Manuals Available</td>
<td>Yes</td>
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<tr>
<td>Applicable Regulations</td>
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<tr>
<td>Support Equipment</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>Not specified</td>
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</table>
**General**

**Name**  
Motorola Dual Mode Mobile; MCS 2000 Mobile Model III

**ID# 99**

<table>
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<tr>
<th><strong>Model Number(s)</strong></th>
<th>MCS 2000 Mobile Model 3</th>
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</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Mobile, conventional and trunked radio</td>
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</tbody>
</table>

**Manufacturer**  
Motorola USA  
1301 E. Algonquin Road  
Schaumburg, Illinois 60196  
800–247–2346 (Tel)  
POC: Ron Zeberlein  
410–712–6014 (Tel)

**Secure Communication Capability**  
Yes

**Availability**  
Available

**Frequency Range**  
VHF: 136 MHz to 174 MHz  
UHF: 403 MHz to 512 MHz  
800/900MHz: 806 MHz to 870 MHz to 896 MHz to 941 MHz

**Number of Personnel Supported by System**  
Multiple

**Geographic Coverage**  
Not specified

**Current User(s)**  
Not specified

**Source**  
Motorola

**Operational Parameters**

<table>
<thead>
<tr>
<th><strong>Number of Channels</strong></th>
<th>160 with optional 250 channels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transmitter Power Output Levels</strong></td>
<td>1 W to 35 W</td>
</tr>
<tr>
<td><strong>Battery Options</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Battery Recharging Options</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th>2.3 in x 6.6 in x 11.7 in</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>5.5 lb</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>12 V dc</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>Not applicable</td>
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</table>

**Available Accessories**
<table>
<thead>
<tr>
<th>Product Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Standard use</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$1.6K MSRP and contact dealer for discount pricing</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not specified</td>
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<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not specified</td>
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<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
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<tr>
<td><strong>Special Requirements</strong></td>
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<tr>
<td>Operator Skills Required</td>
<td>Average</td>
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<tr>
<td>Operator Training Requirements</td>
<td>Average</td>
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<td>Training Available</td>
<td>Yes</td>
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<td>Manuals Available</td>
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<td>Applicable Regulations</td>
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<tr>
<td>Support Equipment</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 yr</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

**Name**
Motorola Transceiver; Astro Digital Spectra W3

**ID# 100**

**Model Number(s)**
Astro Digital Spectra W3

**Technology**
Mobile, conventional and trunked radio

**Manufacturer**
Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800–247–2346 (Tel)

POC: Ron Zeberlein
410–712–6014 (Tel)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
- VHF: 136 MHz to 174 MHz
- UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz, 450 MHz to 482 MHz, 482 MHz to 512 MHz, 800 MHz: 806 MHz to 870 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Motorola

**Operational Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Channels</strong></td>
<td>255 channels</td>
</tr>
<tr>
<td><strong>Transmitter Power Output Levels</strong></td>
<td>10 W to 110 W (35 W on 800 MHz)</td>
</tr>
<tr>
<td><strong>Battery Options</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Battery Recharging Options</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Physical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>2 in x 7.1 in x 2.2 in</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>6.1 lb</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>12 V dc</td>
</tr>
<tr>
<td><strong>External Power</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Available Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speaker-Microphones</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td>Feature</td>
<td>Specification</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician)</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
</tr>
<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Standard use</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$3K MSRP and contact dealer for discount pricing</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Not specified</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Digital capable</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Operator Skills Required</td>
<td>Average</td>
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<td>Operator Training Requirements</td>
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<td>Not specified</td>
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<td>Support Equipment</td>
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<td>Warranty</td>
<td>1 yr</td>
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<tr>
<td>Intrinsically Safe</td>
<td>Not specified</td>
</tr>
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</table>