**General**

**Name**
Vertex GX4800UT Mobile Transceiver

**ID#**
151

**Model Number(s)**
GX4800UT UHF

**Technology**
Mobile and trunked system

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562−404−2700 (Tel)

POC: Kirk Waddell
720−344−9645 (Tel)
720−344−9647 (Fax)

**Secure Communication Capability**
No

**Availability**
Available

**Frequency Range**
450 MHz to 480 MHz and 470 MHz to 512 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410−876−8600 (Tel)
410−848−8600 (Tel)
410−857−8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

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**Operational Parameters**

**Number of Channels**
20 systems/200 groups

**Transmitter Power Output Levels**
25 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

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**Physical Parameters**

**Size**
1.6 in x 5.5 in x 7.1 in

**Weight**
Not specified
Power Requirements
13.6 ± 20 % 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) programmable
Repairs
Dealer
Decontamination
Not specified
Durability/Ruggedness
Mounted radio (mobile-car)
Environmental Conditions
Not specified
Unit Cost
Not specified
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 (APV 0946)
Industry Canada (363 195 212A)
Support Equipment
7 W extension speaker, consolette base power supply, variety of microphones, data interface cable, programming hardware kit (includes software package), programming module, programming cable, and pin adapter
Warranty
3 yr parts and labor
Mil Spec/Mil-Std Ratings
No
Intrinsically Safe
No
## General

<table>
<thead>
<tr>
<th>Name</th>
<th>Vertex VX Series; VX-10V (VHF Model)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID#</td>
<td>152</td>
</tr>
</tbody>
</table>

### Model Number(s)
- VX-10V (VHF Model)

### Technology
- Portable, conventional

### Manufacturer
- Yaesu/Vertex-Standard
- 17210 Edwards Rd.
- Cerritos, California 90703
- 562–404–2700 (Tel)
- POC: Kirk Waddell
  - 720–344–9645 (Tel)
  - 720–344–9647 (Fax)

### Secure Communication Capability
- Yes with optional encryption module

### Availability
- Available

### Frequency Range
- 134 MHz to 160 MHz, 148 MHz to 174 MHz

### Number of Personnel Supported by System
- Unlimited

### Geographic Coverage
- 50+ with repeater; 3 mi line of sight

### Current User(s)
- Not specified

### Source
- Mills' Communications Inc.
- 210 Pennsylvania Ave.
- Westminster, MD 21157
- 410–876–8600 (Tel)
- 410–848–8600 (Tel)
- 410–857–8600 (Fax)
- POC: Jeff Myers
  - millscom@cct.infi.net

## Operational Parameters

### Number of Channels
- 40 channels (102 optional)

### Transmitter Power Output Levels
- Programmable: 5 W, 2.5 W, 1 W, and 0.1 W

### Battery Options
- 7.2 V NiCad 1100 or 600 mAH (5 W); 7.2 V NiCad 1000 mAH NiCad and intrinsically safe

### Battery Recharging Options
- Rapid charger, desktop rapid charger, and dual sequential rapid charger

## Physical Parameters

### Size
- 2.2 in x 3.9 in x 1.8 in

### Weight
- 13.4 oz
<table>
<thead>
<tr>
<th><strong>Power Requirements</strong></th>
<th>7.2 V dc</th>
</tr>
</thead>
<tbody>
<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>Yes - light, medium, and heavy duty</td>
</tr>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>Case and clip</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) programmable</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>Not specified</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>$520</td>
</tr>
<tr>
<td><strong>Battery Cycle Life</strong></td>
<td>8.2 h VHF 5/5/90 cycle</td>
</tr>
<tr>
<td><strong>Rapid Charge Battery Cycle Life</strong></td>
<td>120 V ac or 240 V ac 1 h rapid chargers</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>Minimal</td>
</tr>
<tr>
<td><strong>Operator Training Requirements</strong></td>
<td>Minimal</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>Batteries, microphones, cases, antennas, cloning cable, and software</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>3 yr on transceivers and 1 yr on accessories</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, optional</td>
</tr>
</tbody>
</table>
### General

**Name**
ID# 153

**Model Number(s)**
VX-10U (UHF Model)

**Technology**
Portable, conventional

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California  90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes, with optional encryption module

**Availability**
Available

**Frequency Range**
400 MHz to 430 MHz, 450 MHz to 485 MHz, and 485 MHz to 512 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
50+ with repeater; 3 mi line of sight

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD  21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

### Operational Parameters

**Number of Channels**
40 channels (102 optional)

**Transmitter Power Output Levels**
Programmable: 5 W, 2.5 W, 1 W, and 0.1 W

**Battery Options**
7.2 V NiCad 1100 or 600 mAH (5 W); .2 V NiCad 1000 mAH NiCad and intrinsically safe

**Battery Recharging Options**
Rapid charger, desktop rapid charger, and dual sequential rapid charger

### Physical Parameters

**Size**
2.2 in x 3.9 in x 1.8 in
| **Weight** | 13.4 oz |
| **Power Requirements** | 7.2 V dc |
| **External Power** | No |
| **Available Accessories** |  |
| Speaker-Microphones | Yes - light, medium, and heavy duty |
| Carrying Cases | Case and clip |
| Battery Eliminators | Not specified |
| Vehicle Adapters | No |
| **Logistical Parameters** |  |
| Programming | Dealer/User (authorized technician) programmable |
| Repairs | Dealer |
| Decontamination | Not specified |
| Durability/Ruggedness | Not specified |
| Environmental Conditions | -22 °F to 140 °F |
| Unit Cost | $550 |
| Battery Cycle Life | 7.1 h UHF 5/5/90 cycle |
| Rapid Charge Battery Cycle Life | 120 V ac or 240 V ac 1 h rapid chargers |
| 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 | Batteries, microphones, cases, antennas, cloning cable, and software |
| Warranty | 3 yr on transceivers and 1 yr on accessories |
| Mil Spec/Mil-Std Ratings | Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E |
| Intrinsically Safe | Yes, optional |
**Model Number(s)**

VX-300

**Technology**

Portable, conventional

**Manufacturer**

Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California  90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**

No

**Availability**

Available

**Frequency Range**

134 MHz to 155 MHz (A)
150 MHz to 174 MHz (C)

**Number of Personnel Supported by System**

Unlimited

**Geographic Coverage**

50+ with repeater; 5 mi

**Current User(s)**

U.S. Military

**Source**

Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**

90 channels

**Transmitter Power Output Levels**

Hi: 5 W; low: 1W @ 13.8 V dc

**Battery Options**

Rechargeable NiCad battery pack and 6 AA dry cell

**Battery Recharging Options**

Desktop and wall-charger

**Physical Parameters**

**Size**

2.2 in x 4.7 in x 1.4 in

---

**Picture Not Available**
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<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
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<td><strong>Weight</strong></td>
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<td><strong>Power Requirements</strong></td>
<td>12.0 V dc</td>
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<td><strong>External Power</strong></td>
<td>A dc power cable with cigarette lighter plug</td>
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<td><strong>Available Accessories</strong></td>
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<tr>
<td>Speaker-Microphones</td>
<td>Yes, earpiece, speaker microphone, earpiece microphone, and VOX Headset</td>
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<tr>
<td>Carrying Cases</td>
<td>Cordura case with clip</td>
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<tr>
<td>Battery Eliminators</td>
<td>Not specified</td>
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<tr>
<td>Vehicle Adapters</td>
<td>No</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td>Dealer</td>
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<tr>
<td>Repairs</td>
<td>Dealer</td>
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<tr>
<td>Decontamination</td>
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</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Meets Mil Spec 810D and Mil Spec 810E</td>
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<td>Environmental Conditions</td>
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<td>Unit Cost</td>
<td>$335</td>
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<tr>
<td>Battery Cycle Life</td>
<td>10 h 5/5/90 cycle</td>
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<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>1 h rapid charger</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Programming cable and software</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>Operator Skills Required</td>
<td>Minimal</td>
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<tr>
<td>Operator Training Requirements</td>
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<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, cables, batteries, microphones, cases, antennas, programming cable and software</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr on transceivers and 1 yr on accessories</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>Meets Mil Spec 810D and Mil Spec 810E</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>Not specified</td>
</tr>
</tbody>
</table>
**General**

**Name**

ID# 155

**Model Number(s)**

Vertex HX Series; HX120 UHF Portable

**Technology**

Portable, conventional

**Manufacturer**

Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703

562-404-2700 (Tel)

POC: Kirk Waddell

720-344-9645 (Tel)

720-344-9647 (Fax)

**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**

Mills' Communications Inc.

210 Pennsylvania Ave.,

Westminster, MD 21157

410-876-8600 (Tel)

410-848-8600 (Tel)

410-857-8600 (Fax)

POC: Jeff Myers

millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**

2 channels, 4 channels, and 8 channels

**Transmitter Power Output Levels**

2 W

**Battery Options**

7.2 V 800 mAh NiCad battery and 7.2 V 1100 mAh NiCad battery

**Battery Recharging Options**

Desktop trickle charger

**Physical Parameters**

**Size**

5.2 in x 2.5 in x 1.5 in

**Weight**

12.1 oz
<table>
<thead>
<tr>
<th><strong>Power Requirements</strong></th>
<th>7.2 V dc</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External Power</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Available Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Speaker-Microphones</td>
<td>Speaker microphone</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Carrying case with clip</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Yes</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician) programmable</td>
</tr>
<tr>
<td>Repairs</td>
<td>Dealer</td>
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<tr>
<td>Decontamination</td>
<td>Not specified</td>
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<td>Durability/Ruggedness</td>
<td>Not specified</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>$337</td>
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<tr>
<td>Battery Cycle Life</td>
<td>10 h 5/5/90 cycle</td>
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<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>Not specified</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<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>Charger, batteries, microphone, case, antenna, programming cable and software</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 yr parts and labor</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>No</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
**General**

**Name**
ID# 156

**Vertex HX Series; HX120 VHF Portable**

**Model Number(s)**
HX120 VHF Portable

**Technology**
Portable, conventional

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**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**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
2 channels, 4 channels, and 8 channels

**Transmitter Power Output Levels**
2 W

**Battery Options**
7.2 V 800 mAh NiCad battery and 7.2 V 1100 mAh NiCad battery

**Battery Recharging Options**
Desktop trickle charger

**Physical Parameters**

**Size**
5.2 in x 2.5 in x 1.5 in

**Weight**
12.1 oz
Power Requirements
External Power
Available Accessories
Speaker-Microphones
Carrying Cases
Battery Eliminators
Vehicle Adapters
Logistical Parameters
Programming
Repairs
Decontamination
Durability/Ruggedness
Environmental Conditions
Unit Cost
Battery Cycle Life
Rapid Charge Battery Cycle Life
Maintenance Cost
Interface Capability
Special Requirements
Operator Skills Required
Operator Training Requirements
Training Available
Manuals Available
applicable Regulations
Support Equipment
Warranty
Mil Spec/Mil-Std Ratings
Intrinsically Safe
**General**

**Name**

**Vertex HX Series; HX140 VHF Portable**

**ID# 157**

---

**Model Number(s)**

HX140 VHF Portable

**Technology**

Portable, conventional

**Manufacturer**

Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703

562–404–2700 (Tel)

POC: Kirk Waddell

720–344–9645 (Tel)

720–344–9647 (Fax)

---

**Operational Parameters**

**Number of Channels**

8 channels

**Transmitter Power Output Levels**

5 W

**Battery Options**

7.2 V 950 mAh NiCad battery and 7.2 V 1400 mAh NiCad battery

**Battery Recharging Options**

Desktop trickle charger and desktop rapid charger

---

**Physical Parameters**

**Size**

6.7 in x 2.4 in x 1.5 in

**Weight**

Not specified
### Power Requirements
- **External Power**: 7.2 V dc
- **Available Accessories**
  - **Speaker-Microphones**: Speaker microphone
  - **Carrying Cases**: Nylon case; D-Ring swivel clip, swivel belt loop, and pager style spring action belt clip
  - **Battery Eliminators**: Not specified
  - **Vehicle Adapters**: Not specified

### Logistical Parameters
- **Programming**: Dealer/User (authorized technician) programmable
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Heavy duty construction
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: $389
- **Battery Cycle Life**: Not specified
- **Rapid Charge Battery Cycle Life**: Desktop rapid charger
- **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**: Chargers, batteries, microphones, cases, antennas, and programming hardware kit and software
- **Warranty**: 3 yr parts and labor
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- **Intrinsically Safe**: No
**Vertex HX Series; HX381 VHF Portable**

**General**

**Name**
Vertex HX Series; HX381 VHF Portable

**ID#** 158

**Model Number(s)**
HX381 VHF Portable

**Technology**
Portable, conventional

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California  90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
138 MHz to 174 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD  21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
16 channels

**Transmitter Power Output Levels**
5 W, 4 W, and 2 W (programmable)

**Battery Options**
950 mAh NiCad battery, intrinsically safe and 1500 mAh NiCad battery

**Battery Recharging Options**
Mobile trickle charger, desktop rapid charger (120 V ac and 220 V ac/50 Hz) and 6-unit rapid charger

**Physical Parameters**

**Size**
5.5 in x 2.4 in x 1.7 in
| **Weight** | Not specified |
| **Power Requirements** | 9.6 V dc |
| **External Power** | A dc power cable with cigarette lighter plug |
| **Available Accessories** | |
| **Speaker-Microphones** | Lapel speaker microphone; cable w/molded connector, and nonterminated (OEM) |
| **Carrying Cases** | Leather or Durus soft carrying case; D-ring swivel clip, swivel belt loop, pager belt clip, and slim line metal pager clip |
| **Battery Eliminators** | Yes |
| **Vehicle Adapters** | Not specified |
| **Logistical Parameters** | |
| **Programming** | Dealer/User (authorized technician) programmable |
| **Repairs** | Dealer |
| **Decontamination** | Not specified |
| **Durability/Ruggedness** | Industrial and rugged use |
| **Environmental Conditions** | Unlimited |
| **Unit Cost** | $515 |
| **Battery Cycle Life** | Not specified |
| **Rapid Charge Battery Cycle Life** | Desktop rapid charger (120 V ac and 220 V ac/50 Hz) |
| **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** | Chargers, batteries, microphones, cases, antennas, programming hardware kit and software |
| **Warranty** | 3 yr parts and labor |
| **Mil Spec/Mil-Std Ratings** | Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E |
| **Intrinsically Safe** | Yes |
### General
**Name**
Vertex HX Series; HX381 UHF Portable

**ID#** 159

**Model Number(s)**
HX381 UHF Portable

**Technology**
Portable, conventional

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
400 MHz to 512 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

### Operational Parameters
**Number of Channels**
16 channels

**Transmitter Power Output Levels**
5 W, 4 W, and 2 W (programmable)

**Battery Options**
950 mAh NiCad battery, intrinsically safe, and 1500 mAh NiCad battery

**Battery Recharging Options**
Mobile trickle charger; desktop rapid charger (120 V ac and 220 V ac/50 Hz), and 6–unit rapid charger

### Physical Parameters
**Size**
5.5 in x 2.4 in x 1.7 in

**Weight**
Not specified
**Power Requirements**

- 9.6 V dc

- A dc power cable with cigarette lighter plug

**Available Accessories**

- **Speaker-Microphones**
  - Lapel speaker microphone, cable with molded connector, and nonterminated (OEM)

- **Carrying Cases**
  - Leather or Durus soft carrying case, D-ring swivel clip, swivel belt loop, pager belt clip, and slim line metal pager clip
  - Yes
  - Not specified

**Logistical Parameters**

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

- **Repairs**
  - Dealer

- **Decontamination**
  - Not specified

- **Durability/Ruggedness**
  - Industrial and rugged use

- **Environmental Conditions**
  - Unlimited

- **Unit Cost**
  - $515

- **Battery Cycle Life**
  - Not specified

- **Rapid Charge Battery Cycle Life**
  - Desktop rapid charger (120 V ac and 220 V ac/50 Hz)

- **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**
  - Chargers, batteries, microphones, cases, and keypad

- **Warranty**
  - 3 yr parts and labor

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

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

**Name**
Vertex HX Series; HX240 VHF Portable

**Model Number(s)**
HX240 VHF Portable

**Technology**
Portable, conventional

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes

**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**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
16 channels

**Transmitter Power Output Levels**
4 W

**Battery Options**
Alkaline battery tray (holds six AA batteries, not included); 7.2 V 700 mAh NiCad battery, (1.5 W); 12 V 600 mAh NiCad battery (4 W); 7.2 V 1100 mAh NiCad battery (1.5 W); and 12 V 900 mAh NiCad battery (4 W)

**Battery Recharging Options**
Mobile trickle charger; desktop rapid charger (120 V ac and 220 V ac/50 Hz); desktop trickle charger; and mobile adapter
**Physical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>6.5 in x 2.5 in x 1.4 in</td>
</tr>
<tr>
<td>Weight</td>
<td>16 oz</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>12 V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>A dc power cable with cigarette lighter plug</td>
</tr>
</tbody>
</table>

**Available Accessories**

<table>
<thead>
<tr>
<th>Accessory Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Heavy duty speaker microphone, speaker microphone, miniature speaker microphone, tie pin microphone with earphone, and headset with boom microphone</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Leather carrying case with swivel belt loop, and mobile bracket</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Yes</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>No</td>
</tr>
</tbody>
</table>

**Logistical Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</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>Rugged Ability</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 ºF to 140 ºF</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$435</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>8 h with 5/5/90 cycle</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Desktop rapid charger (120 V ac and 220 V ac/50 Hz)</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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Average</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>
</tr>
<tr>
<td>Support Equipment</td>
<td>Chargers, batteries, microphones, cases, keypad, antennas, programming cable and hardware kit, software, and 9 pin to 25 pin adapter</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr parts and labor</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>No</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
**General**

Name: Vertex HX Series; HX240 UHF Portable
ID# 161

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>HX240 UHF Portable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Portable, conventional</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Yaesu/Vertex-Standard</td>
</tr>
<tr>
<td></td>
<td>17210 Edwards Rd.</td>
</tr>
<tr>
<td></td>
<td>Cerritos, California 90703</td>
</tr>
<tr>
<td></td>
<td>562–404–2700 (Tel)</td>
</tr>
<tr>
<td></td>
<td>POC: Kirk Waddell</td>
</tr>
<tr>
<td></td>
<td>720–344–9645 (Tel)</td>
</tr>
<tr>
<td></td>
<td>720–344–9647 (Fax)</td>
</tr>
</tbody>
</table>

Secure Communication Capability: Yes
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: Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

Number of Channels: 16 channels
Transmitter Power Output Levels: 4 W
Battery Options: Alkaline battery tray (holds six AA batteries, not included); 7.2 V 700 mAh NiCad battery, (1.5 W); 12 V 600 mAh NiCad battery (4 W); 7.2 V 1100 mAh NiCad battery (1.5 W); and 12 V 900 mAh NiCad battery (4 W)

Battery Recharging Options: Mobile trickle charger; desktop rapid charger (120 V ac and 220 V ac/50 Hz); desktop trickle charger; and mobile adapter
### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>6.5 in x 2.5 in x 1.4 in</td>
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<tr>
<td>Weight</td>
<td>16 oz</td>
</tr>
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<td>Power Requirements</td>
<td>12 V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>A dc power cable with cigarette lighter plug</td>
</tr>
</tbody>
</table>

### Available Accessories

<table>
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<tr>
<th>Accessory Type</th>
<th>Details</th>
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<tr>
<td>Speaker-Microphones</td>
<td>Heavy duty speaker microphone, speaker microphone, miniatures speaker microphone, tie pin microphone with earphone, and headset with boom microphone</td>
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<tr>
<td>Carrying Cases</td>
<td>Leather carrying case with swivel belt loop, and mobile bracket</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Yes</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>Rugged ability</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$435</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>8 h with 5/5/90 cycle</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Desktop rapid charger (120 V ac and 220 V ac/50 Hz)</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>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Average</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>
</tr>
<tr>
<td>Support Equipment</td>
<td>Chargers, batteries, microphones, cases, keypad, antennas, programming cable and hardware kit, software, and 9 pin to 25 pin adapter</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr parts and labor</td>
</tr>
<tr>
<td>Mil Spec/Mil-Std Ratings</td>
<td>No</td>
</tr>
<tr>
<td>Intrinsically Safe</td>
<td>No</td>
</tr>
</tbody>
</table>
**General**

**Name**
ID# 162

**Vertex HX Series; HX482UT UHF Portable**

**Model Number(s)**
HX482UT UHF Portable

**Technology**
Portable, conventional and trunked

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562−404−2700 (Tel)

POC: Kirk Waddell
720−344−9645 (Tel)
720−344−9647 (Fax)

**Secure Communication Capability**
No

**Availability**
Available

**Frequency Range**
450 MHz to 480 MHz and 470 MHz to 512 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
Not specified

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410−876−8600 (Tel)
410−848−8600 (Tel)
410−857−8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
10 groups/109 groups

**Transmitter Power Output Levels**
4 W

**Battery Options**
950 mAh NiCad battery and 1500 mAh NiMH battery

**Battery Recharging Options**
Mobile adapter, mobile trickle charger, and desk top rapid charger (120 V ac and 220 V ac/50 Hz)

**Physical Parameters**

**Size**
3.6 in x 2.3 in x 1.3 in

**Weight**
Not specified
<table>
<thead>
<tr>
<th><strong>Power Requirements</strong></th>
<th>9.6 V dc</th>
</tr>
</thead>
<tbody>
<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 adapter, lapel speaker microphone, cable with molded connector, and nonterminated (OEM)</td>
</tr>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>Leather carrying case, swivel belt loop, pager belt clip, slim line metal pager clip, and swivel belt loop</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) programmable</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>Standard use</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Unit Cost</strong></td>
<td>$675</td>
</tr>
<tr>
<td><strong>Battery Cycle Life</strong></td>
<td>At least 6 h with 5/5/90 cycle</td>
</tr>
<tr>
<td><strong>Rapid Charge Battery Cycle Life</strong></td>
<td>Desktop rapid charger (120 V ac and 220 V ac/50 Hz)</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>Chargers, batteries, microphones, cases, keypad, and antennas</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>3 yr parts and labor</td>
</tr>
<tr>
<td><strong>Mil Spec/Mil-Std Ratings</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Intrinsically Safe</strong></td>
<td>No</td>
</tr>
</tbody>
</table>
**General**

**Name**  
Vertex HX Series; HX580 Dual Protocol Hand Held

**ID#** 163

Picture Not Available

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>HX582 Dual Protocol Hand Held</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Portable, conventional and trunked</td>
</tr>
</tbody>
</table>
| **Manufacturer** | Yaesu/Vertex-Standard  
17210 Edwards Rd.  
Cerritos, California 90703  
562–404–2700 (Tel) |
| **Secure Communication Capability** | No |
| **Availability** | Available |
| **Frequency Range** | 851 MHz to 869 MHz |
| **Number of Personnel Supported by System** | Unlimited |
| **Geographic Coverage** | Not specified |
| **Current User(s)** | Not specified |
| **Source** | Mills' Communications Inc.  
210 Pennsylvania Ave.  
Westminster, MD 21157  
410–876–8600 (Tel)  
410–848–8600 (Tel)  
410–857–8600 (Fax) |
| **Operational Parameters** | Millscom@cct.infi.net |
| **Number of Channels** | 10 groups/109 groups |
| **Transmitter Power Output Levels** | 2 W |
| **Battery Options** | 950 mAh NiCad battery and 1500 mAh NiMH battery |
| **Battery Recharging Options** | Mobile adapter, mobile trickle charger, and desk top rapid charger (120 V ac and 220 V ac/50 Hz) |
| **Physical Parameters** | 3.6 in x 2.3 in x 1.3 in |
| **Size** | 9.6 V dc |
| **Weight** | Not specified |
| **Power Requirements** | 9.6 V dc |
External Power

In-line charger/adapter, dual mode, and to operate off car battery while charging radio

Available Accessories

Speaker-Microphones
Earphone adapter, lapel speaker microphone, cable with molded connector, and nonterminated (OEM)

Carrying Cases
Leather carrying case, swivel belt loop, pager belt clip, slim line metal pager clip, and swivel belt loop

Battery Eliminators
No

Vehicle Adapters
No

Logistical Parameters

Programming
Dealer/User (authorized technician) programmable

Repairs
Dealer

Decontamination
Not specified

Durability/Ruggedness
Standard use

Environmental Conditions
Not specified

Unit Cost
$675

Battery Cycle Life
Not specified

Rapid Charge Battery Cycle Life
Desktop rapid charger (120 V ac and 220 V ac/50 Hz)

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
Chargers, batteries, microphones, cases, keypad, antennas, programming cable and hardware kit, software, and 9 pin to 25 pin adapter

Warranty
3 yr parts and labor

Mil Spec/Mil-Std Ratings
Meets Mil Spec 810

Intrinsically Safe
No
<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th><strong>Vertex VX Series; VX-210V (VHF Model)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td>Vertex VX Series; VX-210V (VHF Model)</td>
</tr>
<tr>
<td><strong>ID#</strong></td>
<td>164</td>
</tr>
</tbody>
</table>

**Model Number(s)**
- VX-210V (VHF Model)

**Technology**
- Portable, conventional and trunking capable with optional accessory board

**Manufacturer**
- Yaesu/Vertex-Standard
  - 17210 Edwards Rd.
  - Cerritos, California 90703
  - 562–404–2700 (Tel)
- POC: Kirk Waddell
  - 720–344–9645 (Tel)
  - 720–344–9647 (Fax)

**Secure Communication Capability**
- Yes with optional encryption module

**Availability**
- Available

**Frequency Range**
- 148 MHz to 174 MHz

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

**Geographic Coverage**
- 50+ with repeater; 3 mi line of sight

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

**Source**
- Mills' Communications Inc.
  - 210 Pennsylvania Ave.
  - Westminster, MD 21157
  - 410–876–8600 (Tel)
  - 410–848–8600 (Tel)
  - 410–857–8600 (Fax)
- POC: Jeff Myers
  - millscom@cct.infi.net

**Operational Parameters**

| **Number of Channels** | 16 channels |
| **Transmitter Power Output Levels** | Hi: 5 W; low: 1 W |
| **Battery Options** | Alkaline (AA); 7.2 V 1100 mAh NiCad; 7.2 V 1100 mAh NiCad and intrinsically safe |
| **Battery Recharging Options** | 120 V ac 1 h and 12 h desktop; 240 V ac 1 h and 12 h desktop; and wall charger |

**Physical Parameters**

| **Size** | 2.3 in x 4.3 in x 1 in |
Weight
12 oz

Power Requirements
7.2 V dc

External Power
No

Available Accessories
Speaker-Microphones
Speaker microphone and earpiece microphone

Carrying Cases
Leather case with belt loop and leather case with swivel

Battery Eliminators
Not specified

Vehicle Adapters
Not specified

Logistical Parameters
Programming
Dealer/User (authorized technician) programmable

Repairs
Dealer

Decontamination
Not specified

Durability/Ruggedness
Super rugged construction

Environmental Conditions
-22 °F to 140 °F

Unit Cost
$340

Battery Cycle Life
8.2 h VHF 5/5/90 cycle

Rapid Charge Battery Cycle Life
13.8 V dc and 120 V ac rapid desktop charger and 230 V ac to 240 V ac rapid desktop charger

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
Chargers, batteries, microphones, and cases

Warranty
3 yr on transceivers and 1 yr on accessories

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

Intrinsically Safe
Yes
### General

**Name**

Vertex VX Series; VX-210U (UHF Model)

**ID#** 165

**Picture Not Available**

### Model Number(s)

VX-210U (UHF Model)

### Technology

Portable, conventional and trunking capable with optional accessory board

### Manufacturer

Yaesu/Vertex-Standard  
17210 Edwards Rd.  
Cerritos, California 90703  
562–404–2700 (Tel)

POC: Kirk Waddell  
720–344–9645 (Tel)  
720–344–9647 (Fax)

### Secure Communication Capability

Yes with optional encryption module

### Availability

Available

### Frequency Range

450 MHz to 485 MHz

### Number of Personnel Supported by System

Unlimited

### Geographic Coverage

50+ with repeater; 3 mi line of sight

### Current User(s)

Not specified

### Source

Mills’ Communications Inc.  
210 Pennsylvania Ave.  
Westminster, MD  21157  
410–876–8600 (Tel)  
410–848–8600 (Tel)  
410–857–8600 (Fax)

POC: Jeff Myers  
millscom@cct.infi.net

### Operational Parameters

**Number of Channels**

16 channels

**Transmitter Power Output Levels**

Hi: 5 W; low: 1 W

**Battery Options**

Alkaline (AA); 7.2 V 1100 mAh NiCad; 7.2 V 1100 mAh NiCad and intrinsically safe

**Battery Recharging Options**

20 V ac 1 h and 12 h desktop; 240 V ac 1 hr and 12 h desktop; and wall charger

### Physical Parameters

**Size**

2.3 in x 4.3 in x 1 in

**Weight**

12 oz
<table>
<thead>
<tr>
<th><strong>Power Requirements</strong></th>
<th>7.2 V dc</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External Power</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Available Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Speaker-Microphones</td>
<td>Speaker microphone and earpiece microphone</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Leather case with belt loop and leather case with swivel</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not specified</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<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>Super rugged construction</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$390</td>
</tr>
<tr>
<td><strong>Battery Cycle Life</strong></td>
<td>7.1 h UHF 5/5/90 cycle</td>
</tr>
<tr>
<td><strong>Rapid Charge Battery Cycle Life</strong></td>
<td>13.8 V dc and 120 V ac rapid desktop charger; and 230 V ac to 240 V ac rapid desktop charger</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<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, batteries, microphones, and cases</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr on transceivers and 1 yr on accessories</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>Yes</td>
</tr>
</tbody>
</table>
**General**

**Name**

Vertex VX Series; VX-400V (VHF Model)

**ID#** 166

**Picture Not Available**

---

**Model Number(s)**

VX-400V (VHF Model)

**Technology**

Portable, conventional and trunking capable with optional accessory board

**Manufacturer**

Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California  90703

562–404–2700 (Tel)

POC: Kirk Waddell

720–344–9645 (Tel)

720–344–9647 (Fax)

**Secure Communication Capability**

Yes with optional encryption module

**Availability**

Available

**Frequency Range**

134 MHz to 160 MHz, or 148 MHz to 174 MHz

**Number of Personnel Supported by System**

Unlimited

**Geographic Coverage**

50+ with repeater; 3 mi line of sight

**Current User(s)**

Not specified

**Source**

Mills' Communications Inc.

210 Pennsylvania Ave.

Westminster, MD  21157

410–876–8600 (Tel)

410–848–8600 (Tel)

410–857–8600 (Fax)

POC: Jeff Myers

millscom@cct.infi.net

---

**Operational Parameters**

**Number of Channels**

16 channels

**Transmitter Power Output Levels**

Programmable: 5 W, 2.5 W, 1 W, and 0.1 W

**Battery Options**

Alkaline (AA); 7.2 V 1100 mAh NiCad; 7.2 V 1100 mAh NiCad and intrinsically safe

**Battery Recharging Options**

20 V ac 1 h and 12 h desktop; 240 V ac 1hr and 12 h desktop; and wall charger

---

**Physical Parameters**

**Size**

2.3 in x 4 in x 1 in

**Weight**

11.3 oz
### Power Requirements
- **7.2 V dc**
- **External Power**: No

### Available Accessories
- **Speaker-Microphones**: Yes, earpiece, speaker microphone, earpiece microphone, and VOX Headset
- **Carrying Cases**: Leather case with belt loop and leather case with swivel
- **Battery Eliminators**: Not specified
- **Vehicle Adapters**: Not specified

### Logistical Parameters
- **Programming**: Dealer/User (authorized technician) programmable
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Super rugged construction
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: $507
- **Battery Cycle Life**: 8.2 h VHF 5/5/90 cycle
- **Rapid Charge Battery Cycle Life**: 120 V ac and 240 V ac rapid desktop charger
- **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**: Chargers, batteries, microphones, and cases
- **Warranty**: 3 yr on transceivers and 1 yr on accessories
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- **Intrinsically Safe**: Yes
**General**

**Name**
Vertex VX Series; VX-400U (UHF Model)

**ID# 167**

Picture Not Available

**Model Number(s)**
VX-400U (UHF Model)

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

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes with optional encryption module

**Availability**
Available

**Frequency Range**
400 MHz to 430 MHz, 450 MHz to 485 MHz or 485 MHz to 512 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
50+ with repeater; 3 mi line of sight

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
16 channels

**Transmitter Power Output Levels**
Programmable: 5 W, 2.5 W, 1 W, and 0.1 W

**Battery Options**
Alkaline (AA); 7.2 V 1100 mAh NiCad; 7.2 V 1100 mAh NiCad and intrinsically safe

**Battery Recharging Options**
20 V ac 1 h and 12 h desktop; 240 V ac 1 and 12 h desktop; and wall charger

**Physical Parameters**

**Size**
2.3 in x 4 in x 1 in
**Weight** | 11.3 oz  
**Power Requirements** | 7.2 V dc  
**External Power** | No  

### Available Accessories
- **Speaker-Microphones**: Yes, earpiece, speaker microphone, earpiece microphone, and VOX Headset  
- **Carrying Cases**: Leather case with belt loop and leather case with swivel  
- **Battery Eliminators**: Not specified  
- **Vehicle Adapters**: Not specified

### Logistical Parameters
- **Programming**: Dealer/User (authorized technician) programmable  
- **Repairs**: Dealer  
- **Decontamination**: Not specified  
- **Durability/Ruggedness**: Super rugged construction  
- **Environmental Conditions**: -22 °F to 140 °F  
- **Unit Cost**: $537  
- **Battery Cycle Life**: 7.1 h UHF 5/5/90 cycle  
- **Rapid Charge Battery Cycle Life**: 120 V ac and 240 V ac rapid desktop charger  
- **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**: Chargers, batteries, microphones, and cases  
- **Warranty**: 3 yr on transceivers and 1 yr on accessories  
- **Mil Spec/Mil-Std Ratings**: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E  
- **Intrinsically Safe**: Yes
**General**

**Name**  
Vertex VX Series; VX-500

**ID#** 168

---

**Picture Not Available**

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**Model Number(s)**  
VX-500LX (Low Band VHF)

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

**Manufacturer**  
Yaesu/Vertex-Standard  
17210 Edwards Rd.  
Cerritos, California 90703  
562–404–2700 (Tel)

POC: Kirk Waddell  
720–344–9645 (Tel)  
720–344–9647 (Fax)

**Secure Communication Capability**  
Yes with optional encryption module

**Availability**  
Available

**Frequency Range**  
29.7 MHz to 38 MHz or 38 MHz to 50 MHz

**Number of Personnel Supported by System**  
Unlimited

**Geographic Coverage**  
50+ with repeater; 5 mi line of sight

**Current User(s)**  
Not specified

**Source**  
Mills’ Communications Inc.  
210 Pennsylvania Ave.  
Westminster, MD 21157  
410–876–8600 (Tel)  
410–848–8600 (Tel)  
410–857–8600 (Fax)

POC: Jeff Myers  
millscom@cct.infi.net

---

**Operational Parameters**

**Number of Channels**  
32 channels

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

**Battery Options**  
Alkaline (AA); 7.2 V 1200 mAh NiCad; 7.2 V 1200 mAh NiCad and intrinsically safe

**Battery Recharging Options**  
Rapid desktop charger (117 V ac and 220 V ac to 234 V ac), rapid vehicular charger, and overnight desktop charger (117 V ac and 220 V ac to 234 V ac)

---

**Physical Parameters**

**Size**  
2.3 in x 5.9 in x 1.5 in
<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>19 oz</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>7.2 V dc</td>
</tr>
<tr>
<td>External Power</td>
<td>No</td>
</tr>
<tr>
<td><strong>Available Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Speaker-Microphones</td>
<td>Speaker microphone</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Leather or Cordura case</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not specified</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Logistical Parameters</strong></td>
<td></td>
</tr>
<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>Rugged cast metal housing</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>7.8 h 5/5/90 cycle</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>120 V ac and 240 V ac 1h rapid desktop charger,</td>
</tr>
<tr>
<td></td>
<td>and rapid vehicular adapter</td>
</tr>
<tr>
<td>Maintenance Cost</td>
<td>Not specified</td>
</tr>
<tr>
<td>Interface Capability</td>
<td>Not specified</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td></td>
</tr>
<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, cables, batteries, microphones, cases,</td>
</tr>
<tr>
<td></td>
<td>antennas, programming cable and software</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr on transceivers and 1 yr on accessories</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>Intrinsically safe model available</td>
</tr>
</tbody>
</table>
**General**

**Name**
Vertex VX Series; VX-510LX (Low Band VHF)

**ID#** 169

**Picture Not Available**

**Model Number(s)**
VX-510LX (Low Band VHF Model)

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

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes with optional encryption module

**Availability**
Available

**Frequency Range**
29.7 MHz to 38 MHz or 38 MHz to 50 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
50+ with repeater; 5 mi line of sight

**Current User(s)**
Not specified

**Source**
Mills’ Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
32 channels

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

**Battery Options**
Alkaline (AA); 7.2 V 1700 mAh NiCad; 7.2 V 1700 mAh NiCad and intrinsically safe

**Battery Recharging Options**
120 V ac and 240 V ac overnight desktop charger, 120 V ac and 240 V ac 1 h rapid desktop charger, and rapid 6–unit charger
### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2.3 in x 5.9 in x 1.5 in</td>
</tr>
<tr>
<td>Weight</td>
<td>20.1 oz</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

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Speaker microphone, medium duty and heavy duty with volume control</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Leather case with belt loop, nylon case with clip, belt clip, and swivel attachment for leather case</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not specified</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Logistical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</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>Rugged cast metal housing</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$737</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>11 h 5/5/90 cycle</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Rapid 6-unit multi charger; 120 V ac and 240 V ac 1 h rapid desktop charger</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>Specification</th>
</tr>
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<tbody>
<tr>
<td>Operator Skills Required</td>
<td>Minimal</td>
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<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, batteries, microphones, cases, belt clip, keypad, and programming cable with software</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr on transceivers and 1 yr on accessories</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>Intrinsically safe model available</td>
</tr>
</tbody>
</table>
### General

**Name**

Vertex VX Series; VX-510V (VHF Model)

**ID#** 170

**Picture Not Available**

### Model Number(s)

VX-510V (VHF Model)

### Technology

Portable, conventional and trunking capable with optional accessory board

### Manufacturer

Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703

562–404–2700 (Tel)

POC: Kirk Waddell

720–344–9645 (Tel)

720–344–9647 (Fax)

### Secure Communication Capability

Yes with optional encryption module

### Availability

Available

### Frequency Range

148 MHz to 174 MHz

### Number of Personnel Supported by System

Unlimited

### Geographic Coverage

50+ with repeater; 3 mi line of sight

### Current User(s)

Not specified

### Source

Mills' Communications Inc.

210 Pennsylvania Ave.

Westminster, MD 21157

410–876–8600 (Tel)

410–848–8600 (Tel)

410–857–8600 (Fax)

POC: Jeff Myers

millscom@cct.infi.net

### Operational Parameters

**Number of Channels**

32 channels

**Transmitter Power Output Levels**

Hi: 5 W; low: 1 W

**Battery Options**

Alkaline (AA); 7.2 V 1700 mAh NiCad; 7.2 V 1700 mAh NiCad and intrinsically safe

**Battery Recharging Options**

Multiple options

### Physical Parameters

**Size**

2.3 in x 5.9 in x 1.5 in

**Weight**

20.1 oz
### Power Requirements

- **7.2 V dc**

### External Power

- **No**

### Available Accessories

#### Speaker-Microphones

- Speaker microphone, medium duty and heavy duty with volume control

#### Carrying Cases

- Leather case with belt loop, nylon case with clip, belt clip, and swivel attachment for leather case

#### Battery Eliminators

- Not specified

#### Vehicle Adapters

- Not specified

### Logistical Parameters

#### Programming

- Dealer/User (authorized technician) programmable

#### Repairs

- Dealer

#### Decontamination

- Not specified

#### Durability/Ruggedness

- Rugged cast metal housing

#### Environmental Conditions

- -22 °F to 140 °F

#### Unit Cost

- $590

#### Battery Cycle Life

- 11 h 5/5/90 cycle

#### Rapid Charge Battery Cycle Life

- Rapid 6-unit multi charger; 120 V ac and 240 V ac 1 h rapid desktop charger

#### 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

- Chargers, batteries, microphones, cases, belt clip, keypad, and programming cable with software

#### Warranty

- 3 yr on transceivers and 1 yr on accessories

#### Mil Spec/Mil-Std Ratings

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

#### Intrinsically Safe

- Intrinsically safe model available
**General**

Name: Vertex VX Series; VX-510U (UHF Model)

ID# 171

**Model Number(s)**
VX-510U (UHF Model)

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

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes with optional encryption module

**Availability**
Available

**Frequency Range**
450 MHz to 488 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
50+ with repeater; 3 mi line of sight

**Current User(s)**
Not specified

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
32 channels

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

**Battery Options**
Alkaline (AA); 7.2 V 1700 mAh NiCad; 7.2 V 1700 mAh NiCad and intrinsically safe

**Battery Recharging Options**
Multiple options

**Physical Parameters**

**Size**
2.3 in x 5.9 in x 1.5 in

**Weight**
20.1 oz
### Power Requirements
7.2 V dc

### External Power
No

### Available Accessories

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Speaker microphone, medium duty and heavy duty with volume control</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>Leather case with belt loop, nylon case with clip, belt clip, and swivel attachment for leather case</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>Not specified</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Not specified</td>
</tr>
</tbody>
</table>

### Logistical Parameters

<table>
<thead>
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<th>Parameter</th>
<th>Details</th>
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<tr>
<td>Repairs</td>
<td>Dealer</td>
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<tr>
<td>Decontamination</td>
<td>Not specified</td>
</tr>
<tr>
<td>Durability/Ruggedness</td>
<td>Rugged cast metal housing</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$590</td>
</tr>
<tr>
<td>Battery Cycle Life</td>
<td>11 h 5/5/90 cycle</td>
</tr>
<tr>
<td>Rapid Charge Battery Cycle Life</td>
<td>Rapid 6-unit multi charger; 120 V ac and 240 V ac 1 h rapid desktop charger</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, batteries, microphones, cases, belt clip, keypad, and programming cable with software</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr on transceivers and 1 yr on accessories</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>Intrinsically safe model available</td>
</tr>
</tbody>
</table>
**General**

**Name**

Vertex VX Series; VX-2000V Mobile Radio (VHF)

**ID#** 172

---

**Model Number(s)**

VX-2000v Mobile Radio (VHF)

**Technology**

Mobile, conventional and trunking capable with optional accessory board

**Manufacturer**

Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703

562–404–2700 (Tel)

POC: Kirk Waddell

720–344–9645 (Tel)

720–344–9647 (Fax)

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**Secure Communication Capability**

Yes

**Availability**

Available

**Frequency Range**

134 MHz to 160 MHz

148 MHz to 174 MHz

**Number of Personnel Supported by System**

Multiple

**Geographic Coverage**

Not specified

**Current User(s)**

Not specified

**Source**

Mills' Communications Inc.

210 Pennsylvania Ave.

Westminster, MD 21157

410–876–8600 (Tel)

410–848–8600 (Tel)

410–857–8600 (Fax)

POC: Jeff Myers

millscom@cct.infi.net

---

**Operational Parameters**

**Number of Channels**

4 channels and 40 channels

**Transmitter Power Output Levels**

Hi: 25 W; low: 5 W

**Battery Options**

Not applicable

**Battery Recharging Options**

Not applicable
### Physical Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>6.25 in x 1.5 in x 4.25 in</td>
</tr>
<tr>
<td>Weight</td>
<td>30.4 oz</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>10.8 V dc to 15.6 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>Specification</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>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming</td>
<td>Dealer/User (authorized technician) programmable – PC friendly</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>Mounted radio (mobile-car)</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>Yes</td>
</tr>
</tbody>
</table>

### Special Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</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>Not specified</td>
</tr>
<tr>
<td>Support Equipment</td>
<td>2−Tone Decoder Unit, 12 A power supply (117 V ac to 220 V ac), ANI unit, external speaker, plug-in dc line filter, variety of microphones, VX−Trunk II Trunking Mobile Logic Board, radio to computer programming cable, programming software, and radio to radio cloning cable</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 yr on transceivers and 1 yr on accessories</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# 173

**Model Number(s)**

Vertex VX Series; VX-2000U Mobile Radio (UHF)

**Technology**

VX-2000v Mobile Radio (UHF)

Mobile, conventional and trunking capable with optional accessory board

**Manufacturer**

Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703

562–404–2700 (Tel)

POC: Kirk Waddell

720–344–9645 (Tel)

720–344–9647 (Fax)

**Secure Communication Capability**

Yes

**Availability**

Available

**Frequency Range**

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

**Number of Personnel Supported by System**

Multiple

**Geographic Coverage**

Not specified

**Current User(s)**

Not specified

**Source**

Mills' Communications Inc.

210 Pennsylvania Ave.

Westminster, MD 21157

410–876–8600 (Tel)

410–848–8600 (Tel)

410–857–8600 (Fax)

POC: Jeff Myers

millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**

4 channels and 40 channels

**Transmitter Power Output Levels**

Hi: 25 W; low: 5 W

**Battery Options**

Not applicable

**Battery Recharging Options**

Not applicable
**Physical Parameters**

- **Size**: 6.25 in x 1.5 in x 4.25 in
- **Weight**: 30.4 oz
- **Power Requirements**: 10.8 V dc to 15.6 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) programmable - PC friendly
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Mounted radio (mobile-car)
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: Not specified
- **Battery Cycle Life**: Not applicable
- **Rapid Charge Battery Cycle Life**: Not applicable
- **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**: 2–Tone Decoder Unit, 12 A power supply (117 V ac to 220 V ac), ANI unit, external speaker, plug-in dc line filter, variety of microphones, VX–Trunk II Trunking Mobile Logic Board, radio to computer programming cable, programming software, and radio to radio cloning cable

**Warranty**

- **3 yr on transceivers and 1 yr on accessories**

**Mil Spec/Mil-Std Ratings**

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

**Intrinsically Safe**

- **No**
**General**

**Name**
ID# 174

**Model Number(s)**
Vertex VX Series; VX-3000L (VHF Lowband)

**Technology**
VX-3000L (VHF Lowband)
Mobile, conventional and trunking capable with optional accessory board

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562−404−2700 (Tel)

POC: Kirk Waddell
720−344−9645 (Tel)
720−344−9647 (Fax)

**Secure Communication Capability**
No

**Availability**
Available

**Frequency Range**
29.7 MHz to 37 MHz
37 MHz to 50 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Public Works

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410−876−8600 (Tel)
410−848−8600 (Tel)
410−857−8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

**Number of Channels**
4 channels, 48 channels, (120 optional) channels

**Transmitter Power Output Levels**
Hi: 70 W; low: 10 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

**Physical Parameters**

**Size**
6.3 in x 1.6 in x 6.3 in
Weight 3 lb
Power Requirements 13.8 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) programmable - PC friendly
Repairs Dealer
Decontamination Not specified
Durability/Ruggedness Mounted radio (mobile-car)
Environmental Conditions -22 °F to 140 °F
Unit Cost Not specified
Battery Cycle Life Not applicable
Rapid Charge Battery Cycle Life Not applicable
Maintenance Cost Not specified
Interface Capability Yes

Special Requirements
Operator Skills Required Average
Operator Training Requirements Average
Training Available Yes
Manuals Available Yes
applicable Regulations Not specified
Support Equipment 25 A power supply (117 V ac to 220 V ac), external speaker, plug-in dc line filter, microphones, VX–Trunk II Trunking Mobile Logic Board, radio to computer programming cable, and programming software

Warranty
3 yr on transceivers and 1 yr on accessories

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

*Name*
ID# 175

*Vertex VX Series; VX-3000V (VHF)*

**Model Number(s)**
VX-3000V (VHF)

**Technology**
Mobile, conventional and trunking capable with optional accessory board

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
No

**Availability**
Available

**Frequency Range**
134 MHz to 150 MHz
146 MHz to 174 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Public Works

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

---

**Operational Parameters**

**Number of Channels**
4 channels, 48 channels, (120 optional) channels

**Transmitter Power Output Levels**
Hi: 50 W; low: 5 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

**Physical Parameters**

**Size**
6.3 in x 1.6 in x 6.3 in
| **Weight** | 3 lb |
| **Power Requirements** | 13.8 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) programmable - PC friendly |
| Repairs | Dealer |
| Decontamination | Not specified |
| Durability/Ruggedness | Mounted radio (mobile-car) |
| Environmental Conditions | -22 °F to 140 °F |
| Unit Cost | Not specified |
| Battery Cycle Life | Not applicable |
| Rapid Charge Battery Cycle Life | Not applicable |
| Maintenance Cost | Not specified |
| Interface Capability | Yes |
| **Special Requirements** | |
| Operator Skills Required | Average |
| Operator Training Requirements | Average |
| Training Available | Yes |
| Manuals Available | Yes |
| applicable Regulations | Not specified |
| Support Equipment | 25 A power supply (117 V ac to 220 V ac), external speaker, plug-in dc line filter, microphones, VX−Trunk II Trunking Mobile Logic Board, radio to computer programming cable, and programming software |
| **Warranty** | 3 yr on transceivers and 1 yr on accessories |
| **Mil Spec/Mil-Std Ratings** | Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E |
| **Intrinsically Safe** | No |
**General**

**Name**
ID# 176

**Model Number(s)**
Vertex VX Series; VX-3000U (UHF)

**Technology**
Mobile, conventional and trunking capable with optional accessory board

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
No

**Availability**
Available

**Frequency Range**
400 MHz to 460 MHz, 450 MHz to 490 MHz and 480 MHz to 512 MHz

**Number of Personnel Supported by System**
Multiple

**Geographic Coverage**
Not specified

**Current User(s)**
Public Works

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

---

**Operational Parameters**

**Number of Channels**
4 channels, 48 channels, (120 optional) channels

**Transmitter Power Output Levels**
Hi: 40 W; low: 5 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

---

**Physical Parameters**

**Size**
6.3 in x 1.6 in x 6.3 in
| **Weight** | 3 lb |
| **Power Requirements** | 13.8 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) programmable - PC friendly
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Mounted radio (mobile-car)
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: Not specified
- **Battery Cycle Life**: Not applicable
- **Rapid Charge Battery Cycle Life**: Not applicable
- **Maintenance Cost**: Not specified
- **Interface Capability**: Yes

### Special Requirements
- **Operator Skills Required**: Average
- **Operator Training Requirements**: Average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **applicable Regulations**: Not specified

### Support Equipment
- 25 A power supply (117 V ac to 220 V ac), external speaker, plug-in dc line filter, microphones, VX–Trunk II Trunking Mobile Logic Board, radio to computer programming cable, and programming software

### Warranty
- 3 yr on transceivers and 1 yr on accessories

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

### Intrinsically Safe
- No
### General
- **Name**: Vertex Repeaters; VXR-1000 (VHF)
- **ID#**: 177

**Picture Not Available**

### Model Number(s)
- VXR-1000 (VHF)

### Technology
- Repeater, conventional Vertex mobile repeaters

### Manufacturer
- Yaesu/Vertex-Standard
- 17210 Edwards Rd.
- Cerritos, California 90703
- 562–404–2700 (Tel)
- POC: Kirk Waddell
- 720–344–9645 (Tel)
- 720–344–9647 (Fax)

### Secure Communication Capability
- Yes

### Availability
- Available

### Frequency Range
- 150 MHz to 174 MHz

### Number of Personnel Supported by System
- One

### Geographic Coverage
- Not specified

### Current User(s)
- Not specified

### Source
- Mills' Communications Inc.
- 210 Pennsylvania Ave.
- Westminster, MD 21157
- 410–876–8600 (Tel)
- 410–848–8600 (Tel)
- 410–857–8600 (Fax)
- POC: Jeff Myers
- millscom@cct.infi.net

### Operational Parameters
- **Number of Channels**: 16 channels
- **Transmitter Power Output Levels**: 0 W to 5 W
- **Battery Options**: Not applicable
- **Battery Recharging Options**: Not applicable

### Physical Parameters
- **Size**: 1 in x 4.4 in x 5.4 in
- **Weight**: 14.4 oz
- **Power Requirements**: 13.8 V dc
**External Power**

No

**Available Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker-Microphones</td>
<td>Yes</td>
</tr>
<tr>
<td>Carrying Cases</td>
<td>No</td>
</tr>
<tr>
<td>Battery Eliminators</td>
<td>No</td>
</tr>
<tr>
<td>Vehicle Adapters</td>
<td>Multiple options</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 - PC friendly</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>Durable repeater</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>-22 °F to 140 °F</td>
</tr>
<tr>
<td>Unit Cost</td>
<td>$599</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>No</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>Above average</td>
</tr>
<tr>
<td>Operator Training Requirements</td>
<td>Above 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>
</tr>
<tr>
<td>Support Equipment</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 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**

<table>
<thead>
<tr>
<th>Name: Vertex Repeaters; VXR-1000 (UHF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID# 178</td>
</tr>
</tbody>
</table>

**Model Number(s)**
- VXR-1000 (UHF)

**Technology**
- Repeater, conventional Vertex mobile repeaters

**Manufacturer**
- Yaesu/Vertex-Standard
  17210 Edwards Rd.
  Cerritos, California 90703
  562–404–2700 (Tel)

  POC: Kirk Waddell
  720–344–9645 (Tel)
  720–344–9647 (Fax)

**Secure Communication Capability**
- Yes

**Availability**
- Available

**Frequency Range**
- 450 MHz to 470 MHz

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

**Geographic Coverage**
- Not specified

**Current User(s)**
- Mills' Communications Inc.
  210 Pennsylvania Ave.
  Westminster, MD 21157
  410–876–8600 (Tel)
  410–848–8600 (Tel)
  410–857–8600 (Fax)

  POC: Jeff Myers
  millscom@cct.infi.net

**Operational Parameters**

<table>
<thead>
<tr>
<th>Number of Channels</th>
<th>16 channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter Power Output Levels</td>
<td>0 W to 5 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>1 in x 4.4 in x 5.4 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>14.4 oz</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>13.8 V dc</td>
</tr>
</tbody>
</table>
External Power

Available Accessories

- Speaker-Microphones: Yes
- Carrying Cases: No
- Battery Eliminators: No
- Vehicle Adapters: Multiple Options

Logistical Parameters

- Programming: Dealer/User (authorized technician) programmable - PC friendly
- Repairs: Dealer
- Decontamination: Not specified
- Durability/Ruggedness: Durable Repeater
- 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: No

Special Requirements

- Operator Skills Required: Above average
- Operator Training Requirements: Above average
- Training Available: Yes
- Manuals Available: Yes
- applicable Regulations: Not specified
- Support Equipment: Available
- Warranty: 3 yr
- Mil Spec/Mil-Std Ratings: Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
- Intrinsically Safe: No
**General**

Name
ID# 179

**Vertex Repeaters; VXR-5000 (VHF)**

Model Number(s)
VXR-5000 (VHF)

Technology
Repeater, and trunking Vertex mobile repeaters

Manufacturer
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

Secure Communication Capability
No

Availability
Available

Frequency Range
134 MHz to 147 MHz, 146 MHz to 160 MHz, 156 MHz to 168 MHz, and 164 MHz to 174 MHz

Number of Personnel Supported by System
Multiple

Geographic Coverage
Not specified

Current User(s)
Not specified

Source
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

**Operational Parameters**

Number of Channels
8 channels

Transmitter Power Output Levels
25 W

Battery Options
Not applicable

Battery Recharging Options
Not applicable

**Physical Parameters**

Size
14.8 in x 10.8 in x 4.3 in

Weight
26.4 lb
Power Requirements
100 V ac/117 V ac/220 V ac/235 V ac, 13.8 V dc

External Power
Yes

Available Accessories
- Speaker-Microphones: Yes
- Carrying Cases: No
- Battery Eliminators: No
- Vehicle Adapters: Multiple Options

Logistical Parameters
- Programming: Dealer/User (authorized technician) programmable - PC friendly
- Repairs: Dealer
- Decontamination: Not specified
- Durability/Ruggedness: Durable repeater
- Environmental Conditions: -22 °F to 140 °F
- Unit Cost: Not specified
- Battery Cycle Life: Not applicable
- Rapid Charge Battery Cycle Life: Not applicable
- Maintenance Cost: Not specified
- Interface Capability: No

Special Requirements
- Operator Skills Required: Above average
- Operator Training Requirements: Above average
- Training Available: Yes
- Manuals Available: Yes
- applicable Regulations: Not specified
- Support Equipment: Available
- Warranty: 3 yr
- Mil Spec/Mil-Std Ratings: None
- Intrinsically Safe: No
**General**

<table>
<thead>
<tr>
<th>Name</th>
<th>Vertex Repeaters or Base Station; VXR-5000 (UHF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID# 180</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Number(s)</th>
<th>VXR-5000 (UHF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Conventional and trunking capable with optional accessory board</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Yaesu/Vertex-Standard</td>
</tr>
<tr>
<td></td>
<td>17210 Edwards Rd.</td>
</tr>
<tr>
<td></td>
<td>Cerritos, California 90703</td>
</tr>
<tr>
<td></td>
<td>562–404–2700 (Tel)</td>
</tr>
<tr>
<td></td>
<td>POC: Kirk Waddell</td>
</tr>
<tr>
<td></td>
<td>720–344–9645 (Tel)</td>
</tr>
<tr>
<td></td>
<td>720–344–9647 (Fax)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Secure Communication Capability</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability</td>
<td>Available</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>400 MHz to 420 MHz, 430 MHz to 450 MHz, 450 MHz to 470 MHz, 470 MHz to 490, and 490 MHz to 215 MHz</td>
</tr>
<tr>
<td>Number of Personnel Supported by System</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Geographic Coverage</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Current User(s)</td>
<td>Not specified</td>
</tr>
<tr>
<td>Source</td>
<td>Mills’ Communications Inc. 210 Pennsylvania Ave. Westminster, MD 21157</td>
</tr>
<tr>
<td></td>
<td>410–876–8600 (Tel)</td>
</tr>
<tr>
<td></td>
<td>410–848–8600 (Tel)</td>
</tr>
<tr>
<td></td>
<td>410–857–8600 (Fax)</td>
</tr>
<tr>
<td></td>
<td>POC: Jeff Myers</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:millscom@cct.infi.net">millscom@cct.infi.net</a></td>
</tr>
</tbody>
</table>

**Operational Parameters**

<table>
<thead>
<tr>
<th>Number of Channels</th>
<th>8 channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter Power Output Levels</td>
<td>25 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**

| Size                | 14.8 in x 10.8 in x 4.3 in |
| **Weight** | 26.4 lb |
| **Power Requirements** | 100 V ac/117 V ac/220 V ac/235 V ac, 13.8 V dc |
| **External Power** | Yes |

**Available Accessories**
- **Speaker-Microphones**: Yes
- **Carrying Cases**: No
- **Battery Eliminators**: No
- **Vehicle Adapters**: Not applicable

**Logistical Parameters**
- **Programming**: Dealer/User (authorized technician) programmable - PC friendly
- **Repairs**: Dealer
- **Decontamination**: Not specified
- **Durability/Ruggedness**: Not applicable
- **Environmental Conditions**: -22 °F to 140 °F
- **Unit Cost**: Not specified
- **Battery Cycle Life**: Not applicable
- **Rapid Charge Battery Cycle Life**: Not applicable
- **Maintenance Cost**: Not specified
- **Interface Capability**: No

**Special Requirements**
- **Operator Skills Required**: Above average
- **Operator Training Requirements**: Above average
- **Training Available**: Yes
- **Manuals Available**: Yes
- **applicable Regulations**: Not specified
- **Support Equipment**: Available
- **Warranty**: 3 yr
- **Mil Spec/Mil-Std Ratings**: None
- **Intrinsically Safe**: No
**General**

**Name**
Vertex Repeater or Base Station; VXR-7000 (VHF)

**ID#** 181

**Picture Not Available**

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**Model Number(s)**
VXR-7000 (VHF)

**Technology**
Conventional, Vertex mobile base station or repeater, and optional VX-Trunk operation

**Manufacturer**
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell
720–344–9645 (Tel)
720–344–9647 (Fax)

**Secure Communication Capability**
Yes

**Availability**
Available

**Frequency Range**
136 MHz to 150 MHz and 150 MHz to 174 MHz

**Number of Personnel Supported by System**
Unlimited

**Geographic Coverage**
Not applicable

**Current User(s)**
Public Safety

**Source**
Mills' Communications Inc.
210 Pennsylvania Ave.
Westminster, MD 21157
410–876–8600 (Tel)
410–848–8600 (Tel)
410–857–8600 (Fax)

POC: Jeff Myers
millscom@cct.infi.net

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**Operational Parameters**

**Number of Channels**
16 channels

**Transmitter Power Output Levels**
50 W

**Battery Options**
Not applicable

**Battery Recharging Options**
Not applicable

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**Physical Parameters**

**Size**
4.5 in x 12.8 in x 15.4 in

**Weight**
22 lb

**Power Requirements**
13.8 V dc
External Power: Yes

**Available Accessories**

- Speaker-Microphones: Yes
- Carrying Cases: No
- Battery Eliminators: No
- Vehicle Adapters: Not applicable

**Logistical Parameters**

- Programming: Dealer/User (authorized technician) programmable - PC friendly
- Repairs: Dealer
- Decontamination: Not specified
- Durability/Ruggedness: Not applicable
- Environmental Conditions: -22 °F to 140 °F
- Unit Cost: Not specified
- 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: Above average
- Operator Training Requirements: Above average
- Training Available: Yes
- Manuals Available: Yes
- applicable Regulations: Not specified
- Support Equipment: Available
- Warranty: 3 yr
- Mil Spec/Mil-Std Ratings: None
- Intrinsically Safe: No