VXA-700

RUGGED AIR BAND TRANSCEIVER

SPIRIT

Multi Band / Multi Mode Operation

- Air Band (108 MHz 137 MHz) including NAV (108 MHz 118 MHz)
 AM 5 W P.E.P. (1.5 W Carrier)
- VHF Amateur Band (144 MHz 148 MHz)*
 FM 5 W / AM 4 W
 - *Amateur Band Operation requires FCC Amateur Radio License
- Wide-Band FM Broadcast Receiver 88 MHz –108 MHz
- NOAA Weather Channel Receive with NOAA Severe Weather Alert (U.S.A. Only)

True Heavy Duty Construction

- Rugged Magnesium Die-Cast Casing
- Submersible (3 ft. 30 minutes)

Ultimate Air-Band Features

- Long-Life Lithium-Ion Battery included
- RX Battery Saver Mode
- 192 Memories with Pre-programmed BOOK memories
- Multi-Color Strobe LED for Status Indication and Emergency Light in Dark
- VOR Navigation Display
- Back-lit Keypad and Display with Dimmer
- One-Touch Emergency Frequency Access (121.5 MHz)



Actual Size

Air Band

(108 MHz – 137 MHz) including NAV (108 MHz – 118 MHz) AM 5 W P.E.P. (1.5 W Carrier)

VHF Amateur Band

(144 MHz - 148 MHz)*
FM 5 W / AM 4 W
*Amateur Band Operation
requires FCC Amateur Radio License

FM Broadcast

Wide-Band Receiver 88 MHz - 108 MHz

NOAA

Weather Channel Receive with NOAA Severe Weather Alert (U.S.A. Only)



Vertex Standard



Vertex Standard Presents the Ultimate Air-Band Transceiver

Air Band Operation, VOR Navigation, and Amateur Radio Communications, All In One!

The VXA-700 is the world's first Air Band transceiver featuring both VOR Navigation and Amateur Radio transceiver operation, all in one. Many pilots are also FCC-licensed Amateur Radio operators, as well, and the VXA-700 provides 5 Watts of AM P.E.P. power on the Aviation band, along with 5 Watts of FM power on the 2-meter Ham band, to keep you in touch wherever you operate.

FM Broadcast Receive (88-108 MHz)

The VXA-700, besides being a valuable communications tool, also includes high-quality reception of the FM Broadcast Band at 88-108 MHz.

192 Memory Channels

(Incl. Pre-programmed "Book" Memories)
The extensive Memory system of the VXA-700 includes 102 "Main" memories, plus ninety pre-programmed "Book" memories, for quick and easy recall of often-used frequencies. The memories may be labeled with a title, for quick recognition.

Submersible (JIS-7)

The VXA-700's case, speaker enclosure, and controls are carefully sealed against water ingress, allowing the transceiver to be specified for protection against water ingress per JIS-7 specifications (immersion to 3 feet for 30 minutes). So you need not fear using your VXA-700 during severe weather.

Rugged Magnesium Die-Cast Construction The unmatched ruggedness of the VXA-700 is coupled

with ultra-light weight, thanks to the die-cast magnesium case and chassis construction. Rubber bumpers on the bottom corners of the case protect it

every-day bumps and

scrapes



Supplied Rechargeable Lithium-Ion Battery The VXA-700 is supplied with a super-long-life 7.4 V, 1300 mAh Lithium-Ion Battery Pack (FNB-80LI), providing many hours of operation and reliable charging without the "memory" effects that can charging without the "memory" effects that can plague other battery types. With the optional CD-15A Charging Stand and NC-72B/C AC Adapter, the FNB-80L1 may be charged in as little as 2.5 hours, so you'll quickly be ready for more operating action! And the optional FBA-23 Alkaline Battery Case will accept two "AA" batteries (not supplied) for low-power emergency operation. The VXA-700's EXT DC jack will also accept 12 Volts from the NC-72B/C directly (RX only) or from an external power sumply

directly (RX only), or from an external power supply. Receive Battery Saver

This feature helps maximize battery life by deenergizing the receiver section during periods of no activity, waking the receiver up at user-selected intervals to sample for channel activity. If no activity

ACCESSORIES & AVAILABLE OPTIONS

VOR NAVIGATION: AIR BAND





is detected, the Spirit goes back into its "sleep" mode. Current consumption is significantly reduced, thereby maximizing battery life. This feature is only found on Vertex Standard Airband Transceivers

Multi-Color Strobe LED Status Indicator

Among the more innovative features introduced in the VXA-700 is the full-color Strobe LED, which provides indication of a number

of transceiver status items using different colors. Different colors may be selected for each of the above conditions, and a total of 256 color shades are available, for customizing the colors just the way you like them.





Dot Matrix Display

No Airband hand-held transceiver has a display that even compares to the VXA-700's 132 x 64 dot matrix display. Providing clear, easy-to-read indication of frequency and Navigation data alike, the VXA-700's display includes an unparalleled array of graphical and pictorial tools that make operation a breeze

NOAA WEATHER CHANNELS (U.S.A. Only)

The Spirit can receive all 10 NOAA weather broadcast frequencies. The Automatic Active Weather Channel Locator (a Vertex Standard exclusive) automatically scans for active NOAA weather stations in your area when WX band is selected.

NOAA "Severe Weather" Alert (U.S.A. Only)

The VXA-700 includes a special feature that sounds an alarm when the special "Severe Weather" alert tone is received from a Weather Broadcast station. This warns you of potentially life-threatening flying conditions.

Backlit Keypad and Display with Dimmer
The front panel's keypad and LCD are illuminated in
Vertex Standard's renowned

Omni-Glow™ amber hue, for excellent visibility and minimal impact on your night vision. The Omni-Glow™ display/key illumination may be configured in a number of battery-saving ways. Both Brightness and Contrast are adjustable. You can set the illumination to appear

E-DC-5B



CN-3

Antenna Adapter

continuously, or only for a few seconds after a key is pressed. You can even turn the "Busy" Strobe off, for additional battery conservation.

One Touch Emergency Frequency Access For lightning-fast access to the 121.5 MHz Emergency

Frequency, a dedicated key on the front panel assures you of no delays in summoning help in an emergency.

CTCSS and DCS Operation (144 MHz Amateur Band) For access to Amateur Radio repeaters using tone control systems, the VXA-700 is equipped with both CTCSS and DCS Encoder/Decoder circuits, the products of our decades of design and manufacturing know-how in the Amateur Radio industry. An Amateur Radio license is required for operation on the 144 MHz band.

PC PROGRAMMABLE

The channel configurations can be easily re-programmed in minutes using the optional PC Programming cable (CT-29+CT-97), software (CE56) and your PC. As your operating needs change, you can quickly re-program your Spirit with the important frequency data you need.

SPECIFICATIONS

| TX 118,000 + 136,975 MHz (COM Band), 144,000 - 148,000MHz (Amateur Band), RX 88,000 - 108,000MHz (FM BC Band), 108,000 - 117,975 MHz (AW Band), 118,000 - 136,975 MHz (COM Band), 118,000 MHz (Family CAM Band), 118, General

Receiver

Double-conversion Superheterodyne
36.4 MHz & 450 kHz (AM / NFM),
45.65 MHz & 10.7 MHz (WFM),
45.65 MHz & 10.7 MHz (WFM),
(Jor 12 dB SINAR) with 1 kHz tone © 22.5 kHz deviation)
(for 6 dB SIN with 1 kHz tone © 30.5 modulation)
144.148 MHz < 0.32 JY
(for 12 dB SIN with 1 kHz tone © 30.5 modulation)
WX-01 - WX-10 - 0.4 JW
(for 12 dB SIN with 1 kHz tone © 3.5 kHz deviation)
WX-01 - WX-10 - 0.4 JW
(for 12 dB SYN with 1 kHz tone © 3.5 kHz deviation)
AMN/FM < 8 kHz/-6 dB,
WFM < 200 kHz/-6 dB,
WFM < 200 kHz/-6 dB
0.4W @ 8 Ohms, 10 % THD Circuit Type: IFs: Sensitivity

Selectivity

Adjacent Ch. Selectivity: AF Output:

Transmitter

118 MHz-136.975 MHz: AM: 5.0 W (PEP). 1.5 W (Carrier Power) © 7.4 V 144-148 MHz: FM: 5.0 W © 7.4 V. AM: 4.0 W (PEP). 1.3 W (Carrier Power) © 7.4 V

1.3 W (Carrier Power) © 7.4 V Better than ±10 ppm 1-14° F to +140° F (-10° C to +60° C)] AM: Low Level Modulation, FM: variable reactance ±5 kHz > 60 dB below carrier Frequency Stability: Modulation System

Maximum deviation: Spurious Emission:

Int. Microphone Type Ext. Mic. Impedance

About this brochure: We have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Vertex Standard Dealer for complete details.

E-DC-6 DC Cable; plug and

wire only



Nertex Standard 🗫

"AA" Cell Battery Case CD-15A

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For our latest product news, visit us on the Internet: http://www.vxstdusa.com http://www.yaesu.co.uk

(batteries not supplied) Desktop Rapid Charger w/Noise Filter

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2002.1220NA(U/E)

B9200410 Printed in Japan