



# VXA-300

RUGGED AIR BAND TRANSCEIVER

## Pilot III

- *Submersible*
- *Big Audio*
- *Pitch Control*

- 5 Watts TX Output Power (at 7.2 V. 5 W P.E.P. typ., 1.5 W carrier)
- 250 Memory Channels (Incl. Pre-Programmed Book Memory Channels)
- PC Programmable
- 8 Character Alpha Numeric Display
- Back-lit Keypad and Display with Dimmer
- One Touch Emergency Frequency (121.5 MHz) Access
- Rugged and Submersible Construction (Three feet for 30 minutes)
- NOAA Weather Channel Receive (U.S.A. Only)
- NOAA Weather Alert (U.S.A. Only)
- RX Battery Saver
- VOX Operation (Voice-actuated Transmit/Receive switching)



Actual Size

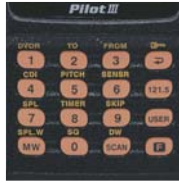
 **Vertex Standard**

## ULTRA RUGGED, SUBMERSIBLE CASE CONSTRUCTION

The Pilot III is built inside a rugged Aluminium case, carefully sealed to protect against water ingress. Built to survive immersion in water for up to 30 minutes at a depth of three feet, the Pilot III can keep you communicating even if it gets wet if you have to ditch!

## DIRECT FREQUENCY ENTRY VIA EASY-TO-READ BACK-LIT KEYPAD

For quick access to operating frequencies, simply enter the frequency information directly from the 16 button keypad, then press the "Push To Talk" (PTT) button to transmit. There's no need to store frequencies in memory before you can operate on them.



## 5 WATTS OF CLEAN POWER OUTPUT

For reliable communications over difficult communications paths, the VXA-300 provides 5 Watts of transmitter power (1.5 W carrier). With its excellent audio clarity, the VXA-300's transmitter will get your message through!

## RECEIVER AUDIO PITCH CONTROL

For improved reception under difficult conditions, the receiver's audio frequency response may be quickly adjusted by the user, to enhance either the high-frequency or low-frequency components, depending on the noise and/or interference encountered. A Vertex Standard exclusive!

## 250 MEMORY CHANNELS

The 150 regular memory channels and 100 pre-programmed "Book" memory channels can store just about any commonly-used operating frequencies that you choose. And the memories may be labeled with an Alpha-numeric title of up to 8 characters, for easy recognition.

## ONE TOUCH SQUELCH CONTROL

Breaking the squelch threshold has never been easier. Press the monitor (MON) button for two seconds to open the Pilot III's squelch continuously. Press MON again to restore the original squelch settings. This is TRUE one-handed operation, without the need to fumble around with tightly spaced concentric knobs.

**SUPPLIED ACCESSORIES:** •Ni-MH Battery Pack (7.2V, 1400mAh) **FNB-83** •Overnight Charger **NC-88B/C\*** •Charger Cradle **CD-28** •Helical Antenna **ATV-10** •Quick Draw Belt Clip **CLIP-14** •Headset Cable **CT-96** •Operating Manual

## ACCESSORIES & AVAILABLE OPTIONS



\*B for 120 VAC/C for 220-240 VAC/U for 220-240 VAC

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.



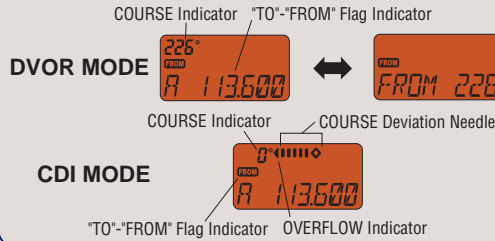
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<http://www.vxstd.com>

## VOR NAVIGATION DISPLAY (NAV BAND 108.000 - 117.975 MHz)

### ■ DVOR TO AND FROM DISPLAY ■ AUTOMATIC BEARING CENTERING SYSTEM



Press and Hold key 2 seconds to toggle the DVOR Radial Digits to the larger Display area.

COURSE Indicator  
COURSE Deviation Needle  
TWO - Degree Deviation Marks  
"TO-"FROM" Flag Indicator



General VOR Equipment

## RECEIVE BATTERY SAVER

This feature is designed to maximize the life of the transceiver's battery. When the Pilot III is in the standby mode the battery saver de-energizes the transceiver's circuitry, waking it up at user-selected intervals to sample for radio activity. If no activity is detected the Pilot goes back into its sleep mode. Current consumption is minimized, thereby maximizing battery life. This feature is only found on Vertex Standard Airband transceivers.

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

The Pilot III 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.

## VERSATILE SCANNING FEATURES

The VXA-300's versatile scanning capability allows you to monitor a number of different channels efficiently. The VXA-300 will scan the COM band, main or Book memories, or the Weather band (U.S. version), and also includes provision for Dual Watch and Priority Revert Dual Watch that always ensures transmission on a "Priority" channel.

## PA FEATURE

When the optional MH-44B4B or other external microphone is used, the VXA-300 may be used as a portable Public Address system, with user-programmable configuration available for the voice monitoring in a headset.

## OTHER FEATURES

•Automatic Noise Limiter •Ambient Temperature monitor •One-Touch Squelch (Monitor) Control •External DC Jack (12V) •Battery Voltage Display •8.33 or 25 kHz Channel Steps •Stop Watch and Count Down Timers •Easy-to use Menu System for Custom Configuration •PC Programmable

## 3-WAY DISPLAY TITLING AND BACK-LIT DISPLAY

Easy to use, versatile access to channel information is critical to successful transceiver operation. Only Vertex Standard Airband transceivers offer you one-keystroke access to three different methods of displaying memory channel information: Frequency, Channel Number, or Alpha-Numeric title.



## SPECIFICATIONS

### General

Frequency range: TX: 118.000 - 136.975 MHz  
RX: 108.000 - 136.975 MHz,  
Weather Channels (WX-01 - WX-10: USA version only)  
Channel Spacing: 25 kHz/8.33 kHz (8.33 kHz: RX only)  
Operating Modes: TX: AM;  
RX: AM & FM (FM: for receiving the Weather Channels, USA version only)

Supply Voltage: 6.0-15.0 V DC  
Current Consumption: 20 µA (power off), 20 mA (battery saver on, saver ratio 1:5), 60 mA (squelch on), 270 mA (receive), 0.9 A (transmit 1.5 W Carrier)  
Temperature Range: +14° F to +140° F (-10° C to +60° C)  
Case Size (WxHxD): 2.4" x 4.7" x 1.2" (w/FNB-83) (60 x 120 x 32 mm)  
Weight (approx.): 13.7 oz (390 g) with FNB-83 and antenna

### Receiver

Circuit Type: Double-conversion Superheterodyne  
IFs: 35.4 MHz and 450 kHz  
Sensitivity: Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)  
Selectivity: >8 kHz/-6 dB  
Adjacent Ch. Selectivity: <25 kHz/-60 dB  
AF Output (@7.2 V): 0.8 W @ 16 Ohms, 10 % THD

### Transmitter

Power Output: 5.0 W (PEP), 1.5 W (Carrier Power) @ 7.2 V DC  
Frequency Stability: Better than ±10 ppm (+14° F to +140° F, -10° C to +60° C)

Modulation System: Low Level Amplitude Modulation  
Spurious Emission: > 60 dB below carrier  
Int. Microphone Type: Condenser  
Ext. Mic. Impedance: 150 Ohms  
Specifications are subject to change without notice or obligation.

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