

EVX-531

OPERATING MANUAL



PROGRAMMABLE FUNCTIONS/FEATURES

- IP57 Submersible (1 m/30 min.)
- 3 Programmable Function Keys
- 2-Tone Encode/Decode
- MDC-1200® Encode/Decode
- Scan
- Group Scan
- Dual Watch
- FM-Scan (Follow-Me Scan)
- TA Scan
- Privacy
- VOX
- Talk Around
- Emergency
- Lone Worker
- TX Save Disable
- ARTS (Auto Range Transpond System)
- ARTSII

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Operation Quick Start		

Congratulations!

You now have at your fingertips a valuable communications tool-a Vertex Standard two-way radio! Rugged, reliable and easy to use, your Vertex Standard radio will keep you in constant touch with your colleagues for years to come, with negligible maintenance down-time. Please take a few minutes to read this manual carefully. The information presented here will allow you to derive maximum performance from your radio, in case questions arise later on.

— Important Note — — — — — — — — — — — — — — — — — — —					
Important Note					
There are no owner-serviceable parts inside the radio. All service jobs must be referred to an authorized					
Vertex Standard Service Representative.					
In order to maintain the specified water integrity performance, periodic maintenance is recommended.					
Should the radio sustain a severe shock (e.g. if it is dropped), the water integrity may be compromised,					
requiring service. Should this occur, contact your Authorized Vertex Standard Dealer.					

INTRODUCTION

The **EVX-531** is full-featured Hand-Held Digital/Analog Transceiver designed for business communications in the VHF/UHF Land Mobile bands. This transceiver is designed for reliable business communications in a wide variety of applications with a wide range of operating capability provided by their leading-edge design.

The **EVX-531** allows to 32-channel capacity and 2 groups. Important channel frequency data is stored in the flash memory on the CPU, and is easily programmable by Vertex Standard dealers using a personal computer and the Vertex Standard Programming Cable and **CE142** Software.

The pages which follow will detail the many advanced features provided in the **EVX-531** transceiver. After reading this manual, you may wish to consult with your Network Administrator regarding precise details of the configuration of this equipment for use in your application.

Important Notice for North American Users Regarding 406 MHz Guard Band

The U.S. Coast Guard and National Oceanographic and Atmospheric Administration have requested the cooperation of the U.S. Federal Communications Commission in preserving the integrity of the protected frequency range 406.0 to 406.1 MHz, which is reserved for use by distress beacons. Do not attempt to program this apparatus, under any circumstances, for operation in the frequency range 406.0 - 406.1 MHz if the apparatus is to be used in or near North America.

Warning - Frequency band 406 - 406.1 MHz is reserved for use ONLY as a distress beacon by the US Coast Guard and NOAA. Under no circumstance should this frequency band be part of the pre programmed operating frequencies of this radio.

FCC ID: AXI11133020 IC: 10239A-11133020

WARNING! FCC RF EXPOSURE REQUIREMENTS

This Radio has been tested and complies with the Federal Communications Commission (FCC) RF exposure limits for Occupational Use/Controlled exposure environment. In addition, it complies with the following Standards and Guidelines:

- FCC 96-326, Guidelines for Evaluating the Environmental Effects of Radio-Frequency Radiation.
 FCC OET Bulletin 65 Edition 97-01 (2001) Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
 ANSI/IEEE C95.1-1992, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
 ANSI/IEEE C95.3-1992, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields RF and Microwave.
 - MARNING:

 This radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as Occupational U.S. Oct. prescription in the control of the cont

sified as *Occupational Use Only*, meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is not intended for use by the General Population in an uncontrolled environment.

A CAUTION: -

To ensure that your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

O This radio is NOT approved for use by the general population in an uncontrolled exposure environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control his or her RF exposure conditions.

WARNING! FCC RF EXPOSURE REQUIREMENTS

- O When transmitting, hold the radio in a vertical position with its microphone 2 inches (5 cm) away from your mouth and keep the antenna at least 2 inches (5 cm) away from your head and body.
- O The radio must be used with a maximum operating duty cycle not exceeding 50%, in typical Push-to-Talk configurations.

DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. To keep the Body Worn configuration with the Vertex Standard CLIP-20 belt-clip, reduce the maximum operating duty cycle still more.

The radio is transmitting when the red LED on the top of the radio is illuminated. You can cause the radio to transmit by pressing the P-T-T button.

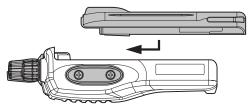
- O SAR compliance for body-worn use was only demonstrated for the specific belt-clip (CLIP-20). Other body-worn accessories or configurations may NOT comply with the FCC RF exposure requirements and should be avoided.
- O When operate the radio with the Vertex Standard CLIP-20 belt-clip, make the transmission time as short as possible, to keep the Body Worn configuration.
- O Always use Vertex Standard authorized accessories.
- O The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.
- O Electromagnetic Interference/Compatibility
 During transmissions, this radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so.

 Do not operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, health care facilities, aircraft, and blasting sites.

BEFORE YOU BEGIN

Battery Pack Installation and Removal

□ To install the battery pack, align the battery pack to the radio with an offset about 1/2 inch (1.5 cm) from the top edge of battery compartment, then slide the battery pack upward until it locks in place with a "Click."

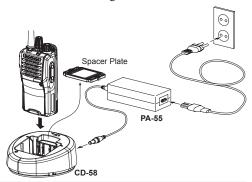


☐ To remove the battery, turn the radio off and remove any protective cases. Slide the Battery Pack Latch on the bottom of the radio toward the front panel while sliding the battery down about 1/2 inch (1.5 cm). Then lift the battery out from the radio

Do not attempt to open any of the rechargeable Lithium-Ion packs, as they could explode if accidentally short-circuited.

Battery Charging

- □ Remove the Spacer Plate from the nest of the optional CD-58 Desktop Charger, if the Battery Spacer is installed.
- ☐ Insert the DC plug from the optional **PA-55** AC Adapter into the DC jack on the rear panel of the optional **CD-58** Desktop Charger, and then connect the AC power cable between the AC jacks on the **PA-55** AC Adapter and the AC line outlet.
- ☐ Insert the battery pack into the **CD-58** Desktop Charger while aligning the slots of the battery pack with the guides in the nest of the **CD-58**; refer to the following illustration for details on



BEFORE YOU BEGIN

proper positioning of the battery pack. If charging with the transceiver attached, turn the transceiver off. The antenna jack should be at the left side when viewing the charger from the front.

- ☐ If the battery pack is inserted correctly, the LED indicator will glow red. A fully-discharged battery pack will charge completely in 1.5 3.0 hours (depending on the battery pack being charged).
- ☐ When charging is completed, the LED indicator will change to green.
- ☐ Disconnect the battery pack from the CD-58

 Desktop Charger and unplug the PA-55 AC

 Adapter from the AC line outlet.

1) Always use the Vertex Standard FNB-V133LI or FNB-V134LI Lithium-Ion Battery Pack.

- 2) Use only the Vertex Standard CD-58 Desktop Charger and the Vertex Standard PA-55 AC Adapter.
- 3) To reduce the risk of explosion, recharge the batteries outside of hazardous locations.
- 4) Perform the battery charging where the ambient temperature range +41 °F to +104 °F (+5 °C to +40 °C). Charge out of this range could cause damage to the battery pack.

- 5) Battery Pack shall not be exposed to excessive heat such as sunshine, fire, or the like.
- 6) Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions
- 7) For further details and cautions of the charging, refer to the Operating Manual of the CD-58 Desktop Charger.

Low Battery Indication

As the battery discharges during use, the voltage gradually becomes lower. When the battery voltage becomes to low, substitute a freshly charged battery and recharge the depleted pack. The LED indicator on the top of the radio will blink red when the battery voltage is low.

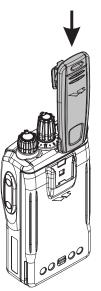
⚠ CAUTION **⚠**

Danger of explosion if battery is replaced with an incorrect battery. Replace only with the same or equivalent type.

BEFORE YOU BEGIN

Belt Clip Installation and Removal

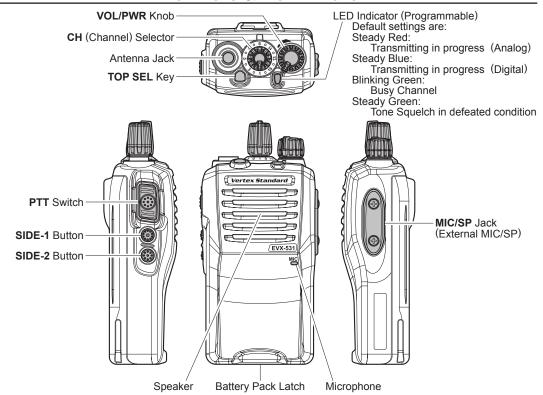
☐ To install the Belt Clip: align the Belt Clip to the groove of the Battery pack, then press the Belt Clip downward until it locks in place with a "Click."



☐ To remove the Belt Clip: use a flat head screw driver to press the Belt Clip Tab away from the battery pack to unlock the Belt Clip, then slide the Belt Clip upward to remove it.



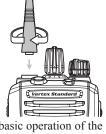
Controls & Connectors



OPERATION

Preliminary Steps

- Install a charged battery pack onto the transceiver, as described previously.
- Screw the supplied antenna onto the Antenna jack.
 Never attempt to operate this transceiver without an antenna connected.
- If you have a Speaker/Microphone, we recommend that it not be connected until you are familiar with the basic operation of the EVX-531.



IMPORTANT NOTE

Water resistance of the transceiver (IP57: 1 meter / 30 minutes) is assured only when the following conditions:

- Battery pack is attached to the transceiver;
- Antenna is connected to the antenna jack;
- and MIC/SP cap is installed in the MIC/SP jack.

Operation Quick Start

☐ Turn the top panel's **VOL/PWR** knob clockwise to turn the radio on.



Turn the top panel's **CH**Selector knob to choose
the desired operating
channel. The radio announces the channel
number, if the Channel



Announcement Feature is worked.

☐ If you want to select the operating channel from a different Channel Group, press the Programmable key (assigned to the "GROUP UP" function) to change the Channel Group you want before selecting the operating channel.

OPERATION

□ Rotate the VOL/PWR knob to set the volume level. If no signal is present on the analog channel, press and hold in the SIDE-1 button (under the PTT switch) more than 2 seconds; background noise will now be heard, and you may use this to set the VOL/PWR knob for the

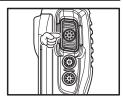




desired audio level. Press and hold the **SIDE-1** button more than 2 seconds (or press the **SIDE-1** button *twice*) to quiet the noise and resume normal (quiet) monitoring.

☐ To transmit, monitor the channel and make sure it is clear.

Press and hold the **PTT** switch. Speak into the microphone area of the



front panel grille in a normal voice level. To return to the Receive mode, release the **PTT** switch.

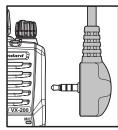
☐ Press the (Orange) TOP
SEL key or SIDE-2
button to activate one
of the pre programmed
functions which may
have been enabled at the
time of programming
by the dealer. See the
next section for details
regarding the available
features.





OPERATION

☐ If a Speaker/Microphone is available, remove the plastic cap and its two mounting screws from the right side of the transceiver, then align the connector of the Speaker/Microphone



on the radio; secure the connector pin using the screws supplied with the Speaker/Microphone. Hold the speaker grille up next to your ear while receiving. To transmit, press the **PTT** switch on the Speaker/Microphone, just as you would on the main transceiver's body, and speak into the microphone on a normal voice level.

Note 1): Save the original plastic cap and its mounting screws. They should be reinstalled when not using the Speaker/Microphone.

2) When you press the PTT switch on the Speaker/Microphone, it disables the internal microphone, and vice versa.

- ☐ If the Busy Channel Lockout feature has been programmed on a channel, the radio will not transmit when a carrier is present. Instead, the radio will generate short beep three times. Release the **PTT** switch and wait for the channel to be clear of activity.
- ☐ If the BCLO (Busy Channel Lockout), CTCSS Lockout, or Digital Coded Squelch (DCS) Lockout has been programmed on a channel, the radio can transmit only when there is no carrier being received (BCLO) or when the carrier being received includes the correct CTCSS tone or DCS code.

Automatic Time-Out Timer

If the selected channel has been programmed for automatic time-out, you must limit the length of each transmission. While transmitting, a beep will sound 10 seconds before time-out. Another beep will sound just before the deadline; the top panel's red LED ("TX" indicator) will disappear and transmission will cease soon thereafter. To resume transmitting, you must release the PTT switch and wait for the "penalty timer" to expire.

Programmable Key Functions

The EVX-531 provides the programmable TOP SEL, SIDE-1, and SIDE-2 function keys.

These Programmable Function keys can be customized, via programming by your Vertex Standard dealer, to meet your communications/network requirements.

The possible Programmable key programming features are illustrated on the next page, and their functions are explained beginning after page 13. For further details, contact your Vertex Standard dealer.

In this chapter, the following icons are used to indicate features supported in either the "Analog" mode or "Digital" mode:

(A): Indicates a "Analog" mode only feature.

D: Indicates a "Digital" mode only feature.

For features that are available in both "Analog" and "Digital" modes, no icon is shown.

For future reference, check the box next to each function that has been assigned to the Programmable key on your particular radio, and keep it handy.

	D _n		Cev		PROGRAMMABLE KEY		
Function	PROGRAMMABLE KEY (PRESS KEY / PRESS AND HOLD KEY)		Function	(Press Key / Press and Hold Key)			
	TOP SEL	SIDE-1	SIDE-2	I GROTION	TOP SEL	SIDE-1	SIDE-2
None	/	/	/	PRI-2 Disable	/	/	/
Monitor	/	/	/	Scan	/	/	/
Monitor -Momentarily-	/—	/—	/—	Group Scan	/	/	/
Low Power	/	/	/	Dual Watch	/	1	/
Privacy	/	/	/	FM Scan (Follow-Me Scan)	/	/	/
SQL OFF	/	/	/	TA Scan	/	1	/
SQL OFF -Momentarily-	/—	/—	/—	SCAN Set	/	1	/
Beep Off	/	/	/	Talk Around (TA)	/	1	/
Whisper	/	/	/	RESET	/	1	/
VOX	/	/	/	Call 1	/	/	/
CH Announcement	/	/	/	Call 2	/	/	/
VOX Anti-Trip	/	/	/	Call 3	/	/	/
Emergency	/—	/—	/—	Speed Dial	/	/	/
Lone Worker	/	/	/	Call	/	/	/
Group Change	/	/	/	Duty	/	/	/
PRI-2	/	/	/	TX Save Disable	/	/	/
PRI-2 Set	/	/	/	Lock	/	/	/

Description of Operating Functions

MONITOR (II)

Press (or press and hold) the assigned Programmable key to cancel any signaling features; the LED indicator will glow green.

MONITOR -MOMENTARILY-

Cancel any signaling features while pressing the assigned programmable key.

Low Power

Press (or press and hold) the assigned Programmable key to set the radio's transmitter to the "Low Power" mode, thus extending battery life. Press (or press and hold) the key again to return to "Normal" transmit power when in difficult terrain.

PRIVACY I

Press (or press and hold) the assigned Programmable key to toggle the Privacy feature "On" and "Off".

The privacy feature keep the secrecy of your communication contents

SQL OFF

Press (or press and hold) the assigned programmable key to open the SQL to hear background noise (unmute the audio).

SQL OFF -MOMENTARILY-

Opens the SQL to hear background noise (unmute the audio) while pressing the assigned programmable key.

BEEP OFF

Press (or press and hold) the assigned Programmable key to disable the radio beeps temporarily. Again press (or press and hold) the assigned Programmable key to enable the radio beeps.

WHISPER (A)

Press (or press and hold) the assigned Programmable key to increase the microphone gain; thus you can speak in a low voice (whisper) temporarily. Again press (or press and hold) the assigned Programmable key to resume normal microphone gain.

VOX

Press (or press and hold) the assigned programmable key to turn the VOX function "On" or "Off". You may disable the VOX function temporarily by pressing the **PTT** switch.

VOX ANTI-TRIP

Press (or press and hold) the assigned Programmable key to toggle the VOX Anti-Trip feature "On" and "Off"

When the VOX Anti-Trip feature is set to "On", the transceiver does not activate the transmitter section from the receiver audio and own beep sound.

EMERGENCY

The **EVX-531** include an "Emergency" feature which may be useful for alerting another party monitoring on the same frequency as your transceiver's channel.

Press the assigned Programmable key to initiate an emergency call on the pre-defined channel. For further details contact your Vertex Standard dealer.

LONE WORKER

Press (or press and hold) the assigned Programmable key to toggle the Lone Worker feature "On" and "Off".

The Lone Worker feature is designed to emit an alarm for 30 seconds when the Lone Worker Timer (programmed by your Vertex Standard dealer) has expired. If the user does not reset the timer by pressing the **PTT** switch, the radio switches to the Emergency mode.

GROUP CHANGE

The **EVX-531** has two Channel Groups.

Press (or press and hold) the assigned Programmable key to change the Channel Group to the opposite Group. Once the desired Group is reached, rotate the **CH** Selector knob to select the desired channel within the selected Group.

PRI-2

Press (or press and hold) the assigned programmable key to recall the pre-programmed priority channel directly. This is pre-programmed by your Vertex Standard dealer.

FCC ID: AXI11133020 IC: 10239A-11133020

ADVANCED OPERATION

PRI-2 SET

Press (or press and hold) the assigned programmable key to toggle the current channel to the priority channel 2 "enable" and "disable".

PRI-2 DISABLE

Press (or press and hold) the assigned programmable key to disable the priority channel 2 of the group temporarily.

SCAN

The Scanning feature is used to monitor multiple signals programmed into the transceiver. While scanning, the transceiver will check each channel for the presence of a signal, and will stop on a channel if a signal is present.

To activate scanning:

- ☐ Press (or press and hold) the assigned Programmable key to activate scanning.
- ☐ The scanner will search the channels of each channel, looking for active ones; it will pause each time it finds a channel on which someone is speaking.
- Press (or press and hold) the assigned Programmable key again to disable scanning. Operation will revert to the programmed revert channel.

Note: Your dealer may have programmed your radio to stay on one of the following channels if you press the **PTT** switch during scanning pause:

- ☐ "Scan Pause" channel ("Talk Back")
- ☐ "Last Busy" channel
- ☐ "Priority-2" channel
- ☐ "User Programmed" channel ("Select Channel")
 - The channel which defined in the CH Selector knob.

GROUP SCAN

The Scanning feature is used to monitor multiple channels programmed into the transceiver. While scanning, the transceiver will check each channel of the programmed group for the presence of the signal, and will stop on a channel if a signal is present.

Press (or press and hold) the assigned programmable key to activate the scanning on the selected groups.

DUAL WATCH

The Dual Watch feature is similar to the SCAN feature, except that only two channels are monitored:

- \square The current operating channel; and
- ☐ The Priority-2 channel.

To activate Dual Watch:

- Press (or press and hold) the assigned Programmable key.
- ☐ The scanner will search the two channels; it will pause each time it finds a channel on which someone is speaking.

To stop Dual Watch:

- Press (or press and hold) the assigned Programmable key.
- Operation will revert to the "Dual Watch Revert" channel.

FM Scan (Follow-Me Scan)

The FM Scan feature checks a User-assigned Priority Channel regularly as you scan other channels. Thus, if only Channels 1, 3, and 5 (of the 8 available channels) are designated for "Scanning", the user may nonetheless assign Channel 2 as the "User-assigned" Priority Channel via the FM Scan.

To activate FM Scan, first select the channel you want to designate as the "User-Assigned Priority Channel" and press (or press and hold) the assigned programmable key. Then rotate the **CH** Selector knob to recall to the "Scanning Start" channel which has been programmed by your dealer to activate the scanner. When the scanner stops on an "Active" channel, the User-assigned Priority Channel will automatically be checked every few seconds; if activity is found on the User-assigned Priority Channel, the radio will switch between it and the Dealer-Assigned Priority Channel, if any.

TA SCAN

Press (or press and hold) the assigned Programmable key to toggle the TA (Talk Around) scan feature "On" and "Off".

While TA scan is proceeding, the transceiver will search both the transmit and receive frequencies. When a signal is encountered on the receive frequency, the **EVX-531** will pause until the signal disappears. When a signal is encountered on the transmit frequency, the transceiver will check for activity on the receive frequency every few seconds (interval programmed by your Vertex Standard dealer).

Note: The TA Scan feature does not activate on the Simplex Channel.

SCAN SET

Press (or press and hold) the assigned Programmable key to add/delete the current channel to/from your scanning list.

When the scanner is stopped, you may remove the channel from the scan list temporarily by pressing (or press and holding) this key.

TALK AROUND (TA)

Press (or press and hold) the assigned Programmable key to activate the Talk Around feature when you are operating on duplex channel systems (separate receive and transmit frequencies, utilizing a "repeater" station). The Talk Around feature allows you to bypass the repeater station and talk directly to a station that is nearby. This feature has no effect when you are operating on "simplex" channels, where the receive and transmit frequencies are already the same.

Note that your dealer may have mode provision for "Talk Around" channels by programming "repeater" and "Talk Around" frequencies on two adjacent channels. If so, the key may be used for one of the other Pre-Programmed Functions.

Note: The Talk Around feature does not activate on the Simplex Channel.

RESET (A)

Press (or press and hold) the assigned programmable key to reset the RFC (Ready for Communication) condition.

CALL 1 TO CALL 3

Press (or press and hold) the assigned Programmable key to send a 2-tone sequential tone group which is pre-defined.

SPEED DIAL (A)

Press (or press and hold) the assigned Programmable key to prepare the Speed Dial function. Press the **PTT** switch within 5 seconds of releasing the key to send a DTMF tone which is pre-defined.

CALL (A)

Press (or press and hold) the assigned programmable key to send a 2-tone sequential tone.

TX SAVE DISABLE

Press (or press and hold) the assigned Programmable key to disable the Transmit Battery Saver, if you are operating in a location where high power is almost always needed.

The Transmit Battery Saver helps extend battery life by reducing transmit power when a very strong signal from an apparently nearby station is being received. Under some circumstances, though, your hand-held radio may not be heard well at the other end of the communication path, and high power may be necessary at all times.

Lock

Press (or press and hold) the assigned Programmable key to lock the **CH** Selector knob, Programmable keys, and **PTT** switch. The precise lockout configuration is programmed by your Vertex Standard Dealer.

LOCK

In order to prevent accidental channel change or inadvertent transmission, various aspects of the **CH** Selector knob, Programmable keys, and **PTT** switch may be locked.

The precise lockout configuration is programmed by your Dealer.

To locked out the key locking, turn the radio off. Now, press and hold the **PTT** and **SIDE-2** key while turning the radio on again.

To cancel locking, repeat this process.

ARTSTM (Auto Range Transpond System)

This system is designed to inform you when you and another ARTSTM-equipped station are within communication range.

During ARTSTM operation, when the radio receives an incoming ARTSTM signal, a short beep will sound. If you move out of range for more than two minutes, your radio senses that no signal has been received; a short triple-beep will sound. If you subsequently move back into communication range, as soon as the other station transmits, a short beep will sound again.

ARTS II TM (AUTO RANGE TRANSPOND SYSTEM)

The ARTSIITM system is enhanced feature of the ARTSTM which can be finding out the communication range of the radio individually by using the MDC-1200[®] Encode/Decoder.

OPTIONAL ACCESSORIES

FNB-V133LI 7.4V, 1380 mAh Li-Ion Battery Pack **FNB-V134LI** 7.4V, 2300 mAh Li-Ion Battery Pack

CD-58 Desktop Charger
PA-51 AC Adapter

MH-66A4B Submersible Speaker Microphone

MH-81A4B Over-the-head VOX Compatible Headset

 ATU-16B
 UHF Antenna (400-420 MHz)

 ATU-16C
 UHF Antenna (420-450 MHz)

 ATU-16D
 UHF Antenna (450-470 MHz)

 ATU-16F
 UHF Antenna (470-520 MHz)

 CSS450
 Channel Selector Stopper

CLIP-20 Belt Clip

CE142 PC Programming Software
FIF-12 USB Programming Interface
CT-106 Connection Cable for FIF-12
CT-27 Radio to Radio Cloning Cable

Availability of accessories may vary; some accessories are supplied standard per local requirements, others may be unavailable in some regions. Check with your Vertex Standard Dealer for changes to this list.

The AMBE+2TM voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form.

U.S. Pat. Nos. #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

Part 15.21: Changes or modifications to this device not expressly approved by Vertex Standard could void the user's authorization to operate this device.



Vertex Standard LMR, Inc.



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