

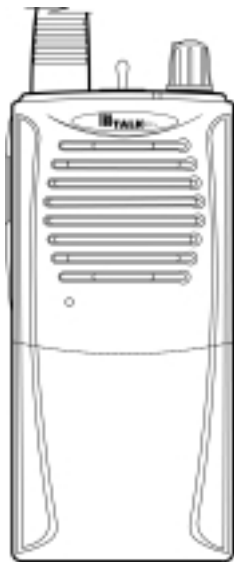


COMPANY NAME: VERTEX STANDARD CO., LTD.
EUT: MURS-22 VHF
WORK ORDER NUMBER: 2001083
FCC ID: 07KMURS22

22 OPERATOR'S MANUAL

Please see the following page

TRU**TALK**(((•



MURS-22 **Operating Instructions**

About Topaz3

Topaz3 is the exclusive supplier of Maxon®, Legacy and TruTalk brand communication products.

Our Business and Industry product line ranges from FCC licensed two-way radios suitable for markets like farm, government, law enforcement, utility, etc. to consumer recreational and light-duty business markets.

Product offerings include a variety of UHF and VHF handheld and mobile radios, repeaters and RF link modules as well as FRS (Family Radio Service), GMRS (General Mobile Radio Service) radios, Citizen's Band radios and weather monitors.

Available accessory items include: a variety of carrying cases, spare batteries, desktop and mobile chargers, ear bud speaker microphones, and more for each radio model.

For additional information on our product line, visit our website: *www.topaz3.com*

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I. FCC RF Exposure Compliance Requirements - for Occupational Use Only

The Federal Communications Commission (FCC), with its action in General Docket 93-62, November 7, 1997, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Topaz3 / TruTalk subscribes to the same safety standard for the use of its products. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health Act (OSHA) and Federal Communications Commission limits.

CAUTION - 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.

- When transmitting, hold the radio in a vertical position with its microphone 2 inches (5 cm) away from your mouth. Keep the antenna at least 2 inches (5 cm) from your head and body.
- This device has been approved for use, at a maximum duty factor of 50%, using the specific belt clip tested for body-worn SAR compliance. Other belt clips or body-worn accessories may not comply and should be avoided. ALWAYS use Maxon, Legacy and TruTalk authorized accessories: antennas, batteries, belt clips,

I. FCC RF Exposure Compliance Requirements - for Occupational Use Only, continued

- The radio is transmitting when the red LED on the front of the radio is illuminated. You can cause the radio to transmit by pressing the P-T-T bar on the radio.
- These are required operating configurations for meeting FCC RF exposure compliance. Failure to observe these restrictions mean violation.

II. Unpacking and Checking Equipment

Carefully unpack the radio and its accessories. Use the item list below to identify the components included in the product packaging, to ensure that no items are discarded in the packing materials.

Radio Body

Antenna

Battery Charger (with plastic spacer
stored in charger base)

AC Adapter

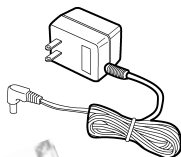
NiMH Battery Pack

Speaker Microphone Jack Cover

Belt Clip

Screw Set

Operating Instructions



If any items are missing or damaged, you should contact the Topaz3 Customer Service Department. Dial 1-800-821-7848, Ext. 499 for assistance.

III. Getting Started

Charging the NiMH Battery Pack

You will need to charge the battery pack fully before initial use. ***For best results from your charging cycle, follow these tips:***

- Ensure the ambient temperature is between 41 and 104° F (5 and 40° C) while charging. Temperatures outside this range may not fully charge the battery.
- Always switch OFF the transceiver equipped with a NiMH battery pack before charging. Using the radio during the charging cycle will hinder correct charging.
- Do not recharge the battery pack if it is already fully charged. Doing so may cause the life of the battery pack to shorten or the battery pack may be damaged.
- If the battery is stored for 2 months or more, it is a good idea to complete the charge / discharge cycle two or three times to allow the battery capacity to return to normal.
- Never dispose of the battery in fire - it can explode causing personal injury.
- Never attempt to disassemble the battery or remove its case material or charging contacts. Do not short the battery terminals.

III. Getting Started, continued

Charging the NiMH Battery Pack, continued

NOTE: The first few uses from the battery will not be at “normal” capacity. After repeating the charge / discharge cycle two or three times, the battery capacity will increase to provide full capacity.

1. Plug the AC adapter cable in the adapter jack located on the rear of the charger, then into an AC outlet.
2. Slide the NiMH battery pack (or the radio equipped with a NiMH battery pack) into the charging slot.
3. Ensure that the metal contacts on the battery pack come in contact with the charging terminals.
4. When charging the NiMH battery pack alone, insert the provided plastic spacer (stored in charger base) into the charging well, then insert the battery pack.
5. The charger LED will light to advise that charging has begun. Charge the standard battery pack for 9 hours. REMOVE THE PACK OR RADIO FROM THE CHARGER.

IMPORTANT NOTE: The charger DOES NOT TURN OFF AUTOMATICALLY after the charging cycle has been completed. Damage to the battery or reduced battery life may result if charged in excess of the recommended charging time.

III. Getting Started, continued

Attaching and Removing the Battery Pack

NOTE: After recharging the battery pack, REMOVE IT FROM THE CHARGER.

The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Replace the pack with the manufacturer's recommended model.

Average battery pack life from the supplied 750 mAh battery is 11 + hours; the optional 1350 mAh battery, 19+ hours. This service time is calculated using 90% standby, 5% transmit and 5% receive time.

After charging the battery pack as described, you are ready to install it to the radio body. Simply;

1. Match the four grooves of the battery pack with the guides on the back of the radio.
2. Slide the battery pack up along the back of the radio until the release latch locks.

To remove the battery pack, push down on the release latch and slide the pack downward, and away from the radio.

III. Getting Started, continued

Installing the Antenna

Screw the antenna into the connector on the top of the radio by holding the antenna at its base and turning it clockwise until seated. Do not overtighten.

The antenna should never be used to carry your radio, or as a base to clip radio accessories. Misuse of the antenna can cause damage, and reduce your radio's performance.

Installing the Belt Clip

We recommend that the belt clip is installed on the radio. It keeps the radio from coming in contact with hot surfaces, and away from your body if heat build-up occurs with excess transmissions.

Use the two supplied screws to install the belt clip. If a replacement is needed, use a screw designed to the exact specifications as the original, to prevent accidental contact with internal circuitry, or possible personal injury. Never use glue in conjunction with the provided screws. Some of the glue's components may crack the radio back panel, causing radio damage and possible personal injury.

Installing the Speaker Microphone Jack Cover

If you are not using an accessory, install the provided cover over the speaker microphone jack using the screw supplied. This will keep the radio water resistant.

III. Getting Started, continued

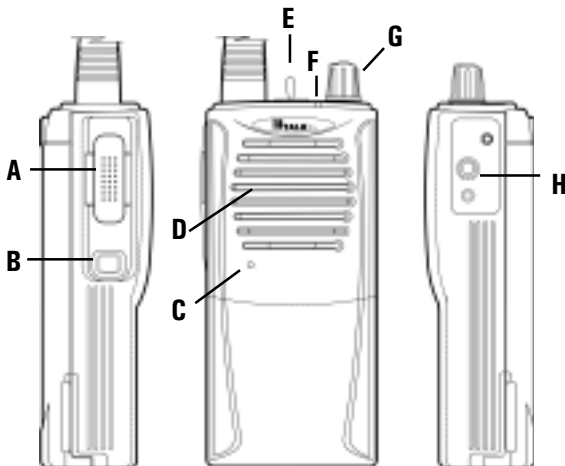
Attaching the Optional Speaker Microphone

1. Insert the speaker microphone jack into the radio.
2. Use the thumbscrew attachment on the speaker microphone to make connection to the radio.

NOTE: The radio is not fully water resistant while the speaker microphone is attached.

IV. Radio Control Buttons / Operation Features

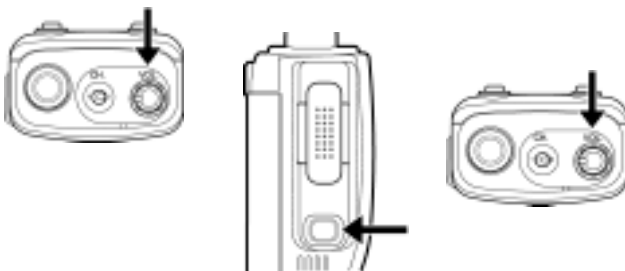
- A) **Push-To-Talk (P-T-T) button (left side of radio)** Press and hold while speaking into the radio microphone, release to listen to incoming messages
- B) **Monitor button (left side of radio)** Press and hold to turn radio squelch off. Release to turn squelch back on.
- C) **Microphone (front of radio)**
- D) **Speaker (front of radio)**
- E) **Channel switch (top panel of radio)**
- F) **LED Indicator (top panel of radio)** Identifies transmit (red), receive (signal only) orange, (signal + CTCSS) green, setup mode (orange), battery low (flashing red)
- G) **Power / volume control (top panel of radio)** Powers radio on and adjusts radio volume
- H) **Speaker microphone jack (right side of radio)**



V. Radio Operation

Power On / Transmit

Power on the radio by turning the power / volume control clockwise out of detent. You will hear a confirmation tone on power-up. To adjust radio volume, press and hold the monitor button then rotate the control further clockwise.



Use the channel switch to choose the desired channel.

To transmit, place the radio microphone approximately 2" (5 cm) from your mouth then press and hold the P-T-T bar while speaking in a normal tone. Release the P-T-T bar when you are finished speaking; the radio will be placed into receive mode.

If the battery pack voltage becomes too low for operation to continue, transmission will stop and the top-panel LED will blink red. Change or charge your battery to continue radio operation. Refer to "Low Battery Warning" on page 19.

V. Radio Operation, continued

NOTE: The channel in use may have been programmed with a signaling code. Refer to “CTCSS Tone Signaling” on page 13.

Channels are pre-programmed with frequencies and CTCSS tones. Refer to “Factory Default Channel Settings” on page 18.

VI. Channel Frequency Selection

NOTE: **Read all steps before attempting this process,** as the radio will exit the setup mode if keypresses are not performed within 5 seconds.

Change the channel frequency by using these steps:

1. Press and hold the P-T-T bar and monitor bar simultaneously, then turn the power ON. Continue to press both bars until the top-panel LED lights orange. Release the P-T-T and monitor bars.
2. Press the P-T-T bar again. The LED now changes from orange to red, and a beep sounds. The radio is now in frequency setup mode.
3. Use the channel switch to choose the channel you want to set up.
4. You will press the P-T-T bar once for each frequency selection. The P-T-T press will be accompanied with a confirmation beep. There are a total of 5 different frequencies and 1 repeater channel for the MURS-22 radio, defined on the next page.

VI. Channel Frequency Selection, continued

Action Beep Pattern	Channel Default Frequency (MHz)	Default CTCSS
Press P-T-T 1 time (single beep)	151.8200	No Tone
Press P-T-T 2 times (two beeps)	151.8800	No Tone
Press P-T-T 3 times (three beeps)	151.9400	No Tone
Press P-T-T 4 times (four beeps)	01 154.5700	No Tone
Press P-T-T 5 times (five beeps)	02 154.6000	No Tone
Press P-T-T 6 times (long then short beep)	Repeater TX: 154.6000 RX: 154.5700	No Tone No Tone

NOTE: Pressing the P-T-T bar more than 6 times will cause an error tone to sound, and no value will be selected.

- Listen for the beep pattern of the selected frequency number. This takes approximately 2 seconds.
- Press the monitor bar to confirm the frequency selection. The LED will show red, and blink twice.
- Press the monitor bar again to confirm the beep pattern of the selected frequency number.
- Repeat steps 3 - 7 to set up the other channel.

VI. Channel Frequency Selection, continued

Example of setting a channel to frequency no. 5: After entering frequency setup mode, press the P-T-T bar 5 times to select frequency 5 (154.6000). *A beep sounds with each P-T-T press.* Wait for 2 seconds to hear the beep pattern of the frequency number. *Five short beeps sound.* Press the monitor bar. *The LED will show red and blink twice.* Press the monitor bar again. *Five short beeps sound to confirm that frequency 5 has been selected.*

VII. CTCSS Tone Signaling

CTCSS Tones prevent the radio from hearing signals unless they match coded tones in your radio. When a received signal has a code that matches your code, squelch will open and you will hear the signal. When a received signal has a code different from the one set up in your radio, squelch will not open and you will not hear the signal.

When you transmit on a channel set up with CTCSS, the receiving station must have a matching code in order to hear your signal.

CTCSS Tones are selected from 38 standard signaling codes and 11 non-standard tones. Refer to the table at top of next page.

VII. CTCSS Tone Signaling, continued

No.	Freq.	No.	Freq.	No.	Freq.	No.	Freq.
00	OFF	13	103.5Hz	26	162.2Hz	39	69.3Hz
01	67.0Hz	14	107.2	27	167.9	40	159.8
02	71.9	15	110.9	28	173.8	41	171.3
03	74.4	16	114.8	29	179.9	42	177.3
04	77.0	17	118.8	30	186.2	43	183.5
05	79.7	18	123.0	31	192.8	44	189.9
06	82.5	19	127.3	32	203.5	45	196.6
07	85.4	20	131.8	33	210.7	46	199.5
08	88.5	21	136.5	34	218.1	47	206.5
09	91.5	22	141.3	35	225.7	48	229.1
10	94.8	23	146.2	36	233.6	49	254.1
11	97.4	24	151.4	37	241.8		
12	100.0	25	156.7	38	250.3		

NOTE: Selecting "00" will turn signaling OFF.

VIII. CTCSS Tone Setup

Refer to the codes listed above, and remember:

1. When selecting a single digit number (0 - 9), always use 2 digits (00 - 09).
2. When you are confirming the selected signaling number, there will be a short pause between the 10's digit and the 1's digit.

VIII. CTCSS Tone Setup, continued

NOTE: Read all steps before attempting this process, as the radio will exit the setup mode if keypresses are not performed within 5 seconds.

1. Press and hold the P-T-T bar and monitor bar, then turn the radio power ON. Continue to press both bars until the top-panel LED lights orange. Release the P-T-T and monitor bars.
2. Press the monitor bar again. The LED will change from orange to green and a beep sounds. The radio is now in CTCSS tone set up mode.
3. Use the channel switch to choose the channel you want to set up.
4. Press the P-T-T bar to select the 10's digit of the desired signaling number. Each time you press the P-T-T bar, a beep sounds and the 10's digit of the signaling number changes. There are a total of 5 different numbers (0 - 4).

Action	Value	Beep Pattern
Press and hold P-T-T for 2-3 seconds	0 x	1-second tone
Press P-T-T 1 time	1 x	single beep
Press P-T-T 2 times	2 x	2 single beeps
Press P-T-T 3 times	3 x	3 single beeps
Press P-T-T 4 times	4 x	4 single beeps

NOTE: Pressing the P-T-T bar more than 5 times will cause an error tone to sound, and no value will be selected.

VIII. CTCSS Tone Setup, continued

5. Listen for the beep pattern of the 10's digit number you selected. This takes approximately 2 seconds.
6. Press the P-T-T bar to select the 1's digit of the signaling number. Each time you press the P-T-T bar, a beep sounds and the 1's digit of the signaling number changes. There are a total of 10 different numbers (0 - 9).

Action	Value	Beep Pattern
Press and hold P-T-T for 2-3 seconds	x 0	1-second tone
Press P-T-T 1 time	x 1	single beep
Press P-T-T 2 times	x 2	2 beeps
Press P-T-T 3 times	x 3	3 beeps
Press P-T-T 4 times	x 4	4 beeps
Press P-T-T 5 times	x 5	5 beeps
Press P-T-T 6 times	x 6	long then 1 short beep
Press P-T-T 7 times	x 7	long then 2 short beeps
Press P-T-T 8 times	x 8	long then 3 short beeps
Press P-T-T 9 times	x 9	long then 4 short beeps

NOTE: Pressing the P-T-T bar more than 9 times will cause an error tone to sound, and no value will be selected.

7. Listen for the beep pattern of the 1's digit number you selected. This takes approximately 2 seconds.
8. Press the monitor bar to complete the setting. The LED will show green and blink twice.
9. Press the monitor bar again to confirm the beep pattern of the selected signaling number.

VIII. CTCSS Tone Setup, continued

10. Repeat steps 3 - 9 to set up the other channel.

Example of setting up a channel with CTCSS tone no. 01: After entering CTCSS setup mode, press and hold the P-T-T bar until a 1-second tone sounds. To select 0 for the 10's digit, hold the bar for 2-3 seconds. Wait for 2 seconds. *A 1-second tone will sound to confirm that "0" has been selected.* Press the P-T-T bar 1 time to select "1" for the 1's digit. *A beep sounds when you press the P-T-T switch.* Wait for 2 seconds. *A short beep will sound to confirm that 1 has been selected.* Press the monitor bar. *The LED will show green and blink twice.* Press the monitor bar again. *A 1-second tone will sound for the "0", there will be a short pause, and then a short beep will sound for the "1" to confirm that 01 has been selected.*

IX. Channel Setting Confirmation

Frequency Confirmation

You can confirm the channel settings of your radio by following these steps:

1. Select the channel you want to confirm.
2. Press and hold the P-T-T bar, then turn the power ON. The beep pattern will sound. [i.e.- If frequency 3 (151.9400) is set up on the channel, 3 short beeps will sound.]
3. Repeat steps 1 - 2 to confirm the frequency of the other channel.

IX. Channel Setting Confirmation, continued

CTCSS Tone Confirmation

NOTE: There will be a short pause between the confirmation of the 10's digit and the confirmation of the 1's digit.

1. Select the channel you want to confirm.
2. Press and hold the monitor bar, then turn the power ON. The beep pattern will sound. [i.e – If CTCSS tone 01 is set up on the channel, a 1-second tone will sound (0), there will be a short pause, and then a short beep will sound (1)].
3. Repeat steps 1 - 2 to confirm the CTCSS tone of the other channel.

Confirmation Beep Settings

Number	Beep Pattern	Number	Beep Pattern
0	1-second tone	5	five beeps
1	single beep	6	long then short beep
2	two beeps	7	long then 2 short beeps
3	three beeps	8	long then 3 short beeps
4	four beeps	9	long then 4 short beeps

Factory Default Channel Setting - Model MURS-22

Channel 1	154.5700 MHz	Code no. 00 (OFF)
Channel 2	154.6000 MHz	Code no. 00 (OFF)

X. Radio Functions

Time-out-Timer (TOT)

The purpose of the time-out-timer is to prevent any single person from using a channel for an extended period.

If you continuously transmit for 3 minutes, the radio will stop transmitting. A tone will sound with each P-T-T bar press until the 5-second TX inhibit time expires. Press the P-T-T bar after the time expires to resume transmitting.

Battery Save

The battery save function decreases the amount of power used when a signal is not being received and no operations are being performed (no bars are being pressed, no controls are being used, etc.)

While the channel is not busy and no operation is performed (RX off: 0.4 seconds, RX on: 0.2 seconds, delay time: 5 seconds), battery save is enabled. When an operation is performed, or a signal is received, battery save is disabled.

Low Battery Warning

The low battery warning alerts you when the battery needs to be recharged.

When the battery power goes below a pre-determined value, the LED will blink red and a tone sounds, the

X. Radio Functions, continued

Low Battery Warning, continued

radio will then allow one more transmission. After that the transceiver will stop transmitting. Replace or recharge the battery pack.

XI. Licensing, Safety and Service Information

FCC Licensing

The Federal Communications Commission requires the operator of this radio be properly licensed under the applicable Part and / or Parts of the FCC Rules and Regulations.

Consult with your Topaz3 radio communications Dealer, or contact the nearest FCC Field Office for information about obtaining a license.

Safety Information

- WARNING -** DO NOT hold the radio in such a manner that the antenna is next to, or touching, exposed parts of the body, especially the face or eyes, while transmitting.
- WARNING -** DO NOT allow children to operate transmitter-equipped radio equipment.
- CAUTION -** DO NOT operate the radio near unshielded electrical blasting caps or in an explosive atmosphere, unless it is a type especially designed and qualified for such use.
- CAUTION -** DO NOT press and hold the transmit bar (P-T-T) when not actually wishing to transmit.

XI. Licensing, Safety and Service Information, con't

Service

Do not tamper with internal radio adjustments.

Damage to the equipment and / or improper operation may result. There are no serviceable items inside the radio. It is recommended that you return the radio to a qualified Topaz3 radio communications Dealer for any service or repairs.

XII. Maintenance

Your TruTalk radio is designed to be maintenance-free, and can be kept in good working condition by:

- Cleaning all external surfaces with a clean cloth, dampened in a mild solution of dishwasher detergent diluted in water. Apply the solution sparingly to avoid any moisture leaking into cracks and crevices - NEVER submerge the radio. Use a non-metallic brush if needed to dislodge stubborn particles. Dry the radio surface thoroughly with a soft, lint-free cloth.
- DO NOT use solvents or spirits for cleaning - they may permanently damage the radio.
- Clean the battery and accessory jack contacts with a lint-free cloth to remove dirt, grease or foreign materials.

XIII. Software Copyrights

The Topaz3 / TruTalk products described in these operating instructions may include copyrighted Topaz3 / TruTalk software programs stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Topaz3 / TruTalk certain exclusive rights for copyrighted software programs, including the exclusive right to copy or reproduce in any form the copyrighted software program.

Accordingly, the copyrighted Topaz3 / TruTalk software programs contained in the Topaz3 / TruTalk product(s) described in this operating instruction manual may not be copied or reproduced without the express written permission of Topaz3, LLC.

Furthermore, the purchase of Topaz3 / TruTalk products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any license under the copyrights, patents or patent applications of Topaz3, LLC, except for normal non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

XIV. Topaz3 / TruTalk Product Warranty

Topaz3, LLC (hereinafter referred to as Topaz3), warrants that its Products and their included accessories will be free from defects in workmanship and materials under normal use for a period of two (2) years (one (1) year for included accessories), from the date of purchase by the original end user, provided that the buyer has complied with the requirements stated herein. This warranty is offered to the initial end user and is not assignable or transferrable. Topaz3 is not responsible for any ancillary equipment which is attached to or used in connection with Topaz3 / TruTalk products.

If the Product fails to function under normal use because of manufacturing defect(s) or workmanship during the warranty period above, it will be replaced or repaired at Topaz3's option at no charge when returned to the place of purchase. The defective unit must be accompanied by proof of the date of purchase in the form of a sales receipt.

The user is responsible for the payment of any charges or expenses incurred for the removal of the defective product from the vehicle or other site of its use, for the transportation of the product to the place of repair, for the return of the repaired / replacement product to the site of its use and for the reinstallation of the product.

Topaz3 shall have no obligation to make repairs or to cause replacement required which results from normal wear and tear or is necessitated in whole or in part by catastrophe, the fault or negligence of the user, improper or unauthorized alterations, repairs to the Product, incorrect wiring, use of the Product in a manner for which it was not designed, or by causes external to the Product. This warranty is void if the serial number is altered, defaced or removed.

Topaz3's sole obligation hereunder shall be to replace or repair the product covered in this Warranty. Replacement, at Topaz3's option, may include a

XIV. Topaz3 / TruTalk Product Warranty, con't

similar or higher-featured product. Repair may include the replacement of parts or boards with functionally equivalent reconditioned or new parts or boards. Replaced parts, accessories, batteries or boards are warranted for the balance of the original time period. All replaced parts, accessories, batteries or boards become the property of Topaz3, LLC.

THE EXPRESS WARRANTIES CONTAINED HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

FOR ANY PRODUCT WHICH DOES NOT COMPLY WITH THE WARRANTY SPECIFIED, THE SOLE REMEDY WILL BE REPAIR OR REPLACEMENT. IN NO EVENT WILL TOPAZ3, LLC. BE LIABLE TO THE BUYER OR ITS CUSTOMERS FOR ANY DAMAGES, INCLUDING ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, OR THE LOSS OF PROFIT, REVENUE OR DATA ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.

This warranty is void for sales and deliveries outside of the U.S.A.



***Supplier of Maxon,[®] Legacy
and TruTalk Communication Products***

**Topaz3, LLC
10828 NW Air World Drive
Kansas City, Missouri 64153**

www.topaz3.com

**Toll free: 800-821-7848
Phone: 816-891-6320 • Fax: 816-891-8815**