

**NEW!**  
Low Profile Size • Built-in Features

# OutPost™

*miles, not feet*  
Long Range Wireless Intercom / Callbox

**Wireless Voice Communication  
Right Where You Need It!**

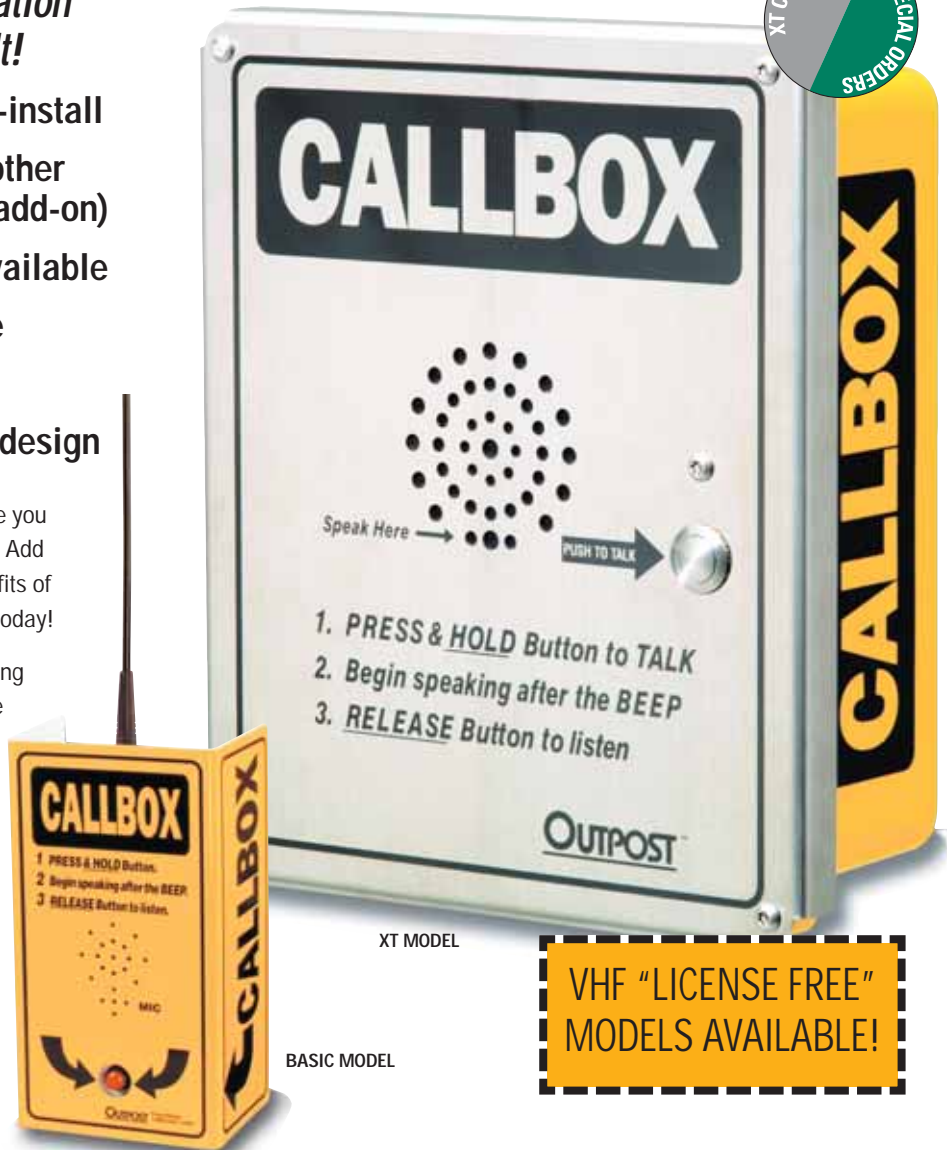
- No trenching required, easy-to-install
- Compatible with virtually any other brand of two-way radio (easy add-on)
- VHF "LICENSE FREE" models available
- Built-in Remote Control feature
- Feature Rich
- Reliable, robust, integrated RF design

Put wireless voice communication right where you need it without costly trenching or monthly fees. Add the security, convenience and productivity benefits of an OutPost radio callbox system to your facility today!

The Ritron OutPost callbox system provides long range, (*measured in miles, not feet*), 2-way voice communication from the fixed location of the OutPost callbox to any of your 2-way radio-equipped personnel. The OutPost can be programmed to be compatible with virtually any other brand of VHF or UHF business band radio. If extended range or coverage is needed, the OutPost can even be programmed to operate through a radio repeater.

(see Ritron Liberty Extender Repeater info on back)

XT COLORS  
SPECIAL ORDERS



XT MODEL

BASIC MODEL

VHF "LICENSE FREE"  
MODELS AVAILABLE!

**Application Uses:**

- |                        |                       |                    |                           |
|------------------------|-----------------------|--------------------|---------------------------|
| - Gated Facilities     | - Airports            | - Special Events   | - Water Treatment Plants  |
| - Gasoline Tank Farms  | - Campgrounds         | - Schools/Campuses | - Estates/Farms/Ranches   |
| - Manufacturing Plants | - Pools/Playgrounds   | - Parking Garages  | - Private Property        |
| - Golf Courses         | - Parks/Hiking Trails | - Hospitals        | - Restricted Access Areas |
| - Warehousing          | - Construction Sites  | - Marinas          | - Military Bases          |



Go Beyond Normal Limits...<sup>SM</sup>



## GENERAL SPECIFICATIONS:

Model No.:	ROX-156/XT	ROX-456/XT
Max. Freq. Separation:	15 MHz	20 MHz
RF Channels:	1 Channel with Independent TX/RX frequencies.	
Synthesizer Step Size:	5 kHz	12.5 kHz
Frequency Stability:	+/- 2.5 PPM (-30 to +60 C) TX/RX	+/- 1.5 PPM (-30 to +60 C) TX/RX
Tone/Code Signaling:	CTCSS (Quiet Call), Digital Coded Squelch (Digital Quiet Call), 2-Tone Paging Decode, DTMF ANI Encode	
Dimensions:	Basic 7.0"H x 5.0"W x 3.0"D XT 11.5"H x 9.5"W x 4.0"D	
Weight:	Basic 3 lb. 12 oz. with antenna and 6 D-cell batteries XT 9 lb. 10 oz. with antenna and 6 D-cell batteries	
Enclosure Material:	R-0 Ring sealed valox, thermo-plastic. Reinforced fiberglass (XT)	
Environmental:	Splash resistant, shock and vibration per RITRON Test	
RJ11 Telephone Jack:	Internal RJ11 jack is used for PC programming.	
Antenna Fitting:	BNC	

	RECEIVER			
	Wide Mode	Narrow Mode	Wide Mode	Narrow Mode
Modulation Acceptance:	+/- 5.0 kHz	+/- 3.75 kHz	+/- 5.0 kHz	+/- 3.75 kHz
Sensitivity: (12 dB SINAD)	0.20 µV	0.20 µV	0.22 µV	0.20 µV
Noise Squelch Sensitivity:	Programmable per channel, factory set for 12 dB SINAD			
Frequency Response:	300 - 3000 Hz, de-emphasized			
Audio Output	1 Watt into 8 W, with less than 5 % THD @ the earphone jack			

	TRANSMITTER			
	Wide Mode	Narrow Mode	Wide Mode	Narrow Mode
Emission Designator:	16K0F3E	11K0F3E	16K0F3E	11K0F3E
Deviation:	+/- 5.00 KHz	+/- 2.50 KHz	+/- 5.00 KHz	+/- 2.50 KHz
RF Power Output:	1.0 Watts maximum @ +13 VDC	2.0 Watts maximum @ +13 VDC	1.0 Watts maximum @ +13 VDC	2.0 Watts maximum @ +13 VDC
Time-out Timer:	60 seconds, programmable			

	POWER REQUIREMENTS			
	Wide Mode	Narrow Mode	Wide Mode	Narrow Mode
Standby:	85 mA	75 mA	85 mA	75 mA
Sleep:	25 mA	25 mA	25 mA	25 mA
Avg. Standby w/Power Saver:	30 mA	30 mA	30 mA	30 mA
Receive:	230 mA	250 mA	230 mA	250 mA
Transmit:	550 mA @ 1.0 Watts	475 mA @ 2.0 Watts	550 mA @ 1.0 Watts	375 mA @ 1.0 Watts
Power Supply:	Internal (6 "D" Cell Battery Holder and Internal screw terminal connectors for external 12 VDC supply			

	BATTERY LIFE AT 1 WATT	
	Alkaline	NiCd
6 D-Cell Batteries:	14,000 mAh	5,000 mAh
Capacity:	7000	2500
Transmissions:	3 second RX, 3 second TX, 10 second standby	
Duty Cycle:		

UHF LTR & PassPort Trunking Models		NOTE: Certain features of the ROX-454 are different from those listed on this sell sheet. Call Ritron for specific details.
XT Model No.:	ROX-454-XT	
Basic Model No.:	ROX-454	
FCC Rule Parts:	80, 90, 74, 22, 95	
Frequency Range:	450-470 MHz	
Frequency Separation:	20 MHz Max.	
Frequency Steps:	12.5 kHz	
Frequency Stability:	±2 ppm (-30C to +60C)	
Code Signaling:	CTCSS (Quiet Call), DTMF ANI, DQC, Trunking (LTR/PassPort)	
Power Supply:	9 volt, 6 D Alkaline or Ni-Cd batteries, or EXPO-12	
<b>EXPO-12 Optional External Power/Battery Back-up</b>		
Battery Life:	500 transmissions using Alkaline Batteries 1000 transmissions using Alkaline Lithium Batteries 1000 transmissions using Ni-Cd Batteries	
Dimensions:	6.25" x 6.25" x 4.38"(Basic) • 9.5" x 11.25" x 6.25" (XT)	
Weight:	1.63 lbs (Basic) • 7.32lbs. (XT) less batteries and antenna	
<b>TRANSMITTER</b>		
RF Power Output:	1 Watt, typical	
Modulation:	16K0F3E, ±5 kHz deviation and 11K0F3E, ±2.5 kHz deviation	
Audio Output:	750 mW into 8 Ohms with < 5% THD (all)	

## Standard Features:

- **VHF / UHF Conventional Models - Wide and Narrow Bands**
- **UHF LTR and PassPort Trunking Model (ROX-454 refer to chart below)**
- **Internal Antenna (XT)** provides 1 mile line-of-sight range.
- **Low profile, compact size** —2 sizes to choose from:
  - Basic model with detachable placard
  - XT model with stainless steel faceplate and tamper resistant fasteners
- **Field Programmable and PC Programmable** – allows maximum system flexibility and easy set-up.
- **CTCSS and Digital Coded Squelch** -allows compatibility with other radio systems.
- **Built-In Relay for Remote Control Capability** -control gates, doors, and lights (momentary or latching) with Ritron portables and base stations.
- **Programmable Security Code** -allows selective remote control of gates, doors, and lights with Ritron portables or base stations.
- **Programmable DTMF ANI (Automatic Number Identification)** -allows unique transmit ID for each OutPost callbox
- **MDC-1200 or G-STAR ANI Protocols** (factory installed option) -allows compatibility with customer's "existing" ANI system requirements
- **Tone Alert w/ Switch Inputs** -allows optional switch to be connected to callbox (e.g. flex switch). Distinct "tone alerts" indicate status of switch. OutPost must be in "Always On" mode to transmit switch status.
- **Battery Powered** -Alkaline or Ni-Cad with auto-cutover to either alkaline or Ni-Cad battery if external power is interrupted.
- **External-Power Ready** -built-in external power filter and regulator
- **Low Battery Alert Feature** -OutPost transmits "alert tone" when PPT is pressed and batteries are low
- **Solar Power Ready** -refer to optional Ritron Solar Power System below
- **"Always-On" Feature** -allows OutPost to remain "on" and in "standby" mode at all times.

## OutPost Compatible Products

### Optional Ritron Solar Power System

includes:

- 10 watt Solar Panel
- Charge Controller
- Rechargeable Lead-Acid Battery
- NEMA 3 Enclosure
- Dimensions/Weight
  - Panel: 16.4" H x 10.6" W x 0.9" D
  - Enclosure: 12" H x 10.25" W x 6.25" D
  - Weight: 10 lbs.



Liberty  
Extender  
Repeater



Patriot  
Portable Radio



Patriot Base Station



**Call 800-USA-1-USA (800-872-1-872)**  
for the right wireless solutions to all  
your communication needs.

Your Ritron Dealer:

Go Beyond Normal Limits...™  
**RITRON**  
WIRELESS SOLUTIONS

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