

Liberate Your Mobile Radio™

 **WIRELESS PACIFIC™**  
...WHEN IT MATTERS

**X10DR®**  
LIBERATE YOUR MOBILE RADIO

**Range Extender**

# Elite Plus RPTR™



**Supports Handsfree Talkaround  
Six Handset Capability  
1200m\* Total Coverage  
AES Encryption  
Find Me™**



# IN TO THE FIRE ...

To help better penetrate buildings and/or deal with physical obstacles preventing good wireless communications between X10DR users back to their vehicle, Wireless Pacific has developed the RPTR Range Extender. Integrated into a small Pelican® 1200 compact suitcase, the X10DR-RPTR extends handset range well beyond the normally available coverage back to the vehicle. Up to six handsets can be affiliated with each RPTR.

The IP67 waterproof rated X10DR RPTR is normally placed at the edge of the vehicle's established coverage area creating a new coverage zone of up to 500 meters from the suitcase. When used for in-to-building coverage, the suitcase would typically be placed inside the building at a chosen optimum secure position that overlooks the desired coverage within the building while still maintaining a clear connection with the host vehicle X10DR Elite system. All normal functionality is maintained while operating via the RPTR.

Alternatively, it can be used as a standalone repeater or up to 6 Elite Plus handsets.

## Total Liberation!

- UP TO 700 METERS COVERAGE FROM VEHICLE
- UP TO 500 METERS COVERAGE FROM RPTR
- UP TO 1000 METERS BETWEEN USERS
- HANDSFREE TALKAROUND CAPABLE
- UP TO SIX HANDSET OPERATION
- AES 128 BIT ENCRYPTED VOICE
- EXTERNAL BATTERY STATUS
- EXCEPTIONAL CLEAR AUDIO
- MINIMAL USER TRAINING
- PELICAN® 1200 HOUSING
- LIGHTWEIGHT & RUGGED
- SEAMLESS INTEGRATION
- AUTOMATIC AFFILIATION
- PATENTED INNOVATION
- ALL DAY OPERATION
- IP65 WATERPROOF
- ULTRA-RELIABLE
- COST EFFECTIVE



Showing handset pairing cups & control panel



**X10DR RPTR**  
Range Extender



**XRC-12DC**  
12V DC Cable



**XRC-12AC- US/EU/AU/UK**  
12V AC Plug Pack



Vehicle link  
antenna port

RPTR status  
light

12VDC charging  
port



# SECURE WIRELESS COMMUNICATION via RPTR and your vehicle's mobile radio

# X10DR®

LIBERATE YOUR MOBILE RADIO



**up to 1000\* meters from your vehicle...**

### Normal Non-RPTR Coverage

All communications between the X10DR Elite Plus handsets normally occurs via their specific paired gateway units and not directly between handsets, so depending on location, communication between handsets could be over 1000 meters, while communication back to the gateway device in the vehicle could be up to 700 meters when using a XRTG Plus roof top gateway configuration. The effective maximum range of the system is highly dependant on the location of the XRTG Plus gateway installation and the location where the X10DR handset is actually worn by the user. Obstruction to antennas will effect the directivity of coverage so careful consideration must be taken when selecting a mounting location when maximum range is a system imperative.

### RPTR Range Extender Coverage

With the RPTR enabled and in range of the host vehicle X10DR Elite Plus system, each pre-affiliated X10DR Elite Plus handset will automatically lock onto their associated RPTR system as the user travels outside the coverage of the vehicle into the RPTR's coverage zone. All transmissions from the radio network received by the host mobile are re-broadcasted to all handsets either those still connected to the host vehicle system or those now operating via the enable RPTR system. Likewise, all radio PTT transmissions from all Elite handsets along with all talkaround transmissions are heard by all active handsets. If users walk back into range of the vehicle system, they will automatically reconnect when coverage with the RPTR is lost.

### Emergency RPTR Operation

Should a user press the handset's orange emergency duress button, it will not only activate the emergency mode within the host mobile radio but also can be programmed to sound an emergency alarm in each operational Elite Plus handset so the closest team members can render immediate assistance. X10DR Elite models also allow localized alerting with capabilities to automatically broadcast "Live Mic" to allow remote monitoring of an emergency situation.

### 8 Hours Plus Standalone Operation

Internal re-chargeable batteries ensure operational RPTR heavy usage life typically of eight hours or more. The RPTR can be charged by any available 12VDC supply or via the supplied AC/DC plug pack. The RPTR kit includes a 1.8 meter 12VDC charging cable terminated in a conventional cigarette lighter plug, in addition to a 12VDC@1A AC plug pack for desktop charging.

### Team Talk Completely Off The Network

The X10DR RPTR Range Extender can be operated as a completely standalone local on-site system to provide up to six users with an exclusive AES encrypted virtual voice channel. This can be achieved by either taking the RPTR outside of the vehicle's host X10DR system, or by deactivating the vehicle gateway associated with the RPTR suitcase. Operating as a standalone system users are free to use the normal radio PTT buttons on the handset to communicate amongst themselves instead of the top mounted Talkaround button.

### Find Me™ Locator

In the event of a lost handset or more importantly to find a user who may have been rendered unconscious, the Find Me™ feature can be triggered by momentarily double pressing the front panel button on the vehicle gateway cradle that the RPTR is affiliated with, in order to sound an alarm tone from all handsets affiliated with that gateway or an affiliated RPTR unit to aid in quickly locating the user or device. Find Me alert tone volume is dependent on handset audio level setting when connected via a RPTR.

### RPTR Battery Status

The RPTRs 1450mAH internal batteries means you will typically achieve well in excess of 8 hours heavy operation between recharges. Battery status can be manually checked by a quick press of the internal On/Off/Test button. Additionally, the external status indicator will automatically flash RED when immediate re-charging is required.

## DEPLOYMENT CONFIGURATION

Unlike conventional two way radio repeaters, a X10DR RPTR will only communicate with Elite Plus handsets that have been pre-affiliated (paired) to the gateway cradles inside the RPTR suitcase. Additionally, if desired to link back to the host mobile radio network, the RPTR must also be pre-affiliated with one of the gateway devices in the host vehicle, so the RPTR knows which radio traffic to pass. This initial pre-deployment set-up should be done BEFORE deploying the RPTR into active real world operation.

Elite Plus handset operation through a RPTR Suitcase is identical to operation directly through a vehicle gateway. It should be noted that depending on RF environment or physical obstacles it may take 10-30 seconds when re-connecting between vehicle and suitcase systems.



### **DEPLOYMENT SET-UP:**

*Touchless pairing is used to affiliate (pair) the RPTR suitcase to a chosen Elite Plus Gateway in the vehicle.*

*Up to a maximum of 6 handsets can be paired (3 per cradle) to a RPTR suitcase. This is done by the usual pairing process: i.e. Hold both handset volume control buttons down until handset starts to beep, then place into the desired cradle until a completion confirmation tone is sounded.*

*Next manually power off the vehicle's X10DR gateway and check the check all handset status lights are showing a solid blue color. Do a test transmission between each handset to verify operation.*

*Now, power on the vehicle gateway, the RPTR status light will show a solid blue once it has connected to the vehicle. Do a transmission test from handsets over the radio channel to verify correct intended operation. The device is now ready for operation*

*When the deployment is finished, first disable the RPTR by a long press (~2 secs) of its Off/On Test button and verify all handsets then reconnect to their existing paired vehicle gateways. (Handset status lights will go solid blue)*

*Finally, place RPTR on charge ready for deployment.*

\* Line of sight but subject to RF and physical environmental conditions at the time.

Works with:



**MOTOTRBO™**



**NXDN™**

**ANALOG**

more information at:  
[www.x10dr.com](http://www.x10dr.com)



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