

*Liberate Your Mobile Radio™*

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

**X10DR®**

LIBERATE YOUR MOBILE RADIO

**Secure Wireless Microphone**



**Range Extender Relay Mode**  
**Handsfree Talkaround**  
**Multi Mic Capability**  
**Advanced Emergency**  
**Extra Loud Audio**  
**AES Encryption**  
**In Car Monitor**  
**Find Me™**

**ELITE**  
**Plus**  
**Series**

# AES SECURE WIRELESS COMMUNICATION

via your vehicle's mobile radio

**X10DR**<sup>®</sup>  
LIBERATE YOUR MOBILE RADIO



**talk up to 1/4 mile (500m)\* to the ambulance**

## Open Channel Group Communications

Open channel group communications nurtures valuable team spirit - a work ethos that comes from entrusting one's organization's wireless communications to an "open channel" two way radio system. Paramedic teams use two way because it's the only sure way to deliver instant shared group situation awareness for all members assigned to a specific operational channel.. That's unless the paramedic leaves the vehicle. The X10DR Out Of Vehicle Solution enables your entire team of responders constantly stay informed whether in or out of their vehicle. X10DR core capability ensure all members continue to hear all conversations instantly, so all your firefighters know what is going on, no matter whether they are heading down a highway to an accident or out of the Ambulance saving lives.

## Staying Secure In Remote Work Environments

The vehicle mounted mobile radio is often the first responders' chief communication link to central command and other radio units. However, when a paramedic needs to go back and wait at the vehicle, to provide or receive an update, operations slow or at worst, come to a stand still, losing critical response time and placing lives at risk. X10DR is revolutionary technology, which allows paramedics to stay in constant communication with each other locally on-site or back to base, via their vehicle mounted mobile radio, for up to five hundreds meters (over a quarter of a mile) from the vehicle.

## Talk On or Off The Network - Now with local Handsfree

Elite devices exclusively allow two, or even three\*, X10DR Elite handset users to communicate via a single vehicle gateway unit. This provides paramedics with an AES secure, local on-site, exclusive voice channel, while simultaneously monitoring their vehicle's radio operational channel and to instantly communicate over the network whenever desired. Pressing the secure microphone's top mounted Talkaround button allows officers to communicate freely, off-network amongst themselves. Additionally, X10DR Elite now includes with user selectable, **full duplex, handsfree talkaround** capability. This allows users to effortlessly communicate locally on-site amongst themselves in full duplex mode - totally handsfree - while never missing a spoken syllable received over their vehicle's mobile radio and naturally with the ability to respond, as usual, with a press of the side PTT button.

**Just imagine : Two paramedics fighting to save lives at a horror auto accident can now use both hands to apply pressure or do whatever needs to be done, while communicating constantly with their partners. Handsfree can save precious moments .**

## Talk Back Microphone - In Cabin Option

The XTBM Talk back microphone keeps those who stay in the vehicle fully informed of what is being said over the radio or locally on ground. This ruggedized IP67 weatherproof speaker microphone delivers over 1W RMS of loud and clear audio power allowing the user to communicate with X10DR users or other members over the radio.

## Emergency Duress Alarm

The X10DR secure wireless microphone naturally provide a duress button that can be used to activate the emergency mode within the host mobile radio. Field personnel can now call for assistance even while hundreds of meters from their vehicle. X10DR Elite models also allow localized alerting so your nearby partner instantly knows your predicament. Naturally, X10DR can be programmed to automatically broadcast "Live Mic" to allow remote monitoring of an emergency situation.

## Mandown Biometric Monitor option

When fitted and activated, the Mandown function turns on automatically whenever you remove the handset from its charger. If there is no user movement or transmit activity for 2 minutes, quickening alert tones will sound for 30 seconds. If there is still no user activity, the radio's emergency input will be triggered. To temporarily disable Mandown operation, either power up the handset or remove it from its charger while pressing the top grey Control button until a 4 beep "pause" confirmation sounds. A gentle reminder tick will sound every 2 minutes until re-enabled. To re-enable Mandown, either power off/on the handset or place the handset into a charger and then remove. Mandown is disabled when the handset is placed into any charger/gateway.

\* three when not using Relay Mode or in applications not requiring multiple gateway deployments in the same locations/vehicle. We suggest you trial to make sure your operational requirements can be met before major 3HS1GW deployments..

Since the creation of the first mobile two way radio, system designers and radio manufacturers have grappled with solutions to enhance user mobility when away from the vehicle. These solutions typically involved additional portable hand-held radios and significant additions of base station infrastructure; radio sites and complex remote receiver voting systems to back fill marginal coverage areas. Alternatively, some manufacturers developed cumbersome vehicle based mobile repeater systems where simplex portable transmissions are repeated through a mobile repeater back into the base station network. These systems required careful engineering, additional frequencies and critically complex contention management protocols to eliminate clashing from multiple vehicle repeaters at scene. Traditional vehicular repeaters usually added system delays and required user intervention for managing which channels, mode or status to use in order to make them work. Both these solutions came at a cost... a big cost! In 2012, Wireless Pacific invented the first X10DR. Now in its third iteration, X10DR Plus clearly defines truly seamless cost effective Out Of Vehicle communications.



## Earpiece/ Headset/Accessory Operation

Elite models feature a smart Hirose® audio port on the base of each secure microphone that allows use of a wide variety of specialist and everyday headsets and audio accessories. When required, programming allows the handset's battery to be shared with externally connected audio accessories requiring (3.3V) DC power. Alternatively, an earpiece provides a simple, easy and effective way to maintain quiet secured private communications. (See X10DR Accessory brochure for more details)

## Find Me™ Locator

In the event of a lost secure microphone or to find a user who may have been rendered unconscious, the new Find Me™ feature can be triggered by momentarily double pressing the front panel button on the gateway charging cradle. The Find Me command causes the handsets to squeal at their maximum volume so its user can be quickly located in the thickest smoke or dense foliage.

## External Battery Connectivity

For those fighting wildfires where a handset may need to be in constant use without being returned to the vehicle's charging gateway, a secondary external battery to be plugged into the handset's bottom headset socket via a magnetic cord adaptor. Once connected, the LED status light will blink every 10 seconds to indicate charging is taking place. The handset can be used as normal with\* or without the external battery attached. The external battery will typically recharge the handset's internal 1450mA battery in 4 hours before disconnecting or may be left connected and swapped over with a fresh battery as needed. When connected to a fully charged handset operation is typically doubled. \*Headset operation not available when external battery is connected.

## Extra Range Gateway

Where the standard coverage is just not quite enough, the Elite Plus Gateways are also available in an IP65 rated external weatherproof housing with integrated multi-polarity antenna which provides enhanced signal strength to achieve better in-to-building with line of site coverage up to 700 meters from the vehicle. The new Elite Plus rooftop gateways allow "touchless" pairing thereby further simplifying the initial vehicle set up or changing handsets once deployed. When ordering XRTG rooftop gateways, you must also order the number of XEX2 handsets you require.

## \*Command/Automatic Relay Mode

Designed for in-to-building range enhancement, a handset with Relay Mode activated would be typically deployed when entering buildings (i.e. Emergency entrance, Building lobby?) where physical construction prevents an X10DR handset user communicating back to their vehicle should they venture much further into the building. The Relay Mode handset, correctly located, remains connected to the vehicle while the other paramedics enter deeper into the building (e.g. triage area) to perform their duties. Naturally the "Relay activated" handset user is still free to communicate, or if needed the handset can be left at that location to remain a Relay point allowing the paramedic/s to communicate while moving around the building. As an added bonus should the Relay Mode activated handset lose connection with the vehicle, it can continue to communicate with handsets linked to it. Meaning the three Elite Plus units can still communicate locally amongst themselves even in dead spots well away from vehicle coverage. (See the X10DR Elite Plus Application Notes or User Manual for a full description of capabilities.)

### Command Relay Mode

via another handset



# Now get totally liberated!

- HANDSFREE TALKAROUND OPTION
- MULTI MICROPHONE OPERATION
- TALK IN OR OUT OF THE VEHICLE
- AES 128 BIT ENCRYPTED VOICE
- DRAMATIC NOISE REDUCTION
- VERY LOUD & CLEAR AUDIO
- SIMPLE INTUITIVE DESIGN
- MINIMAL USER TRAINING
- LIGHTWEIGHT & RUGGED
- SEAMLESS INTEGRATION
- PATENTED INNOVATION
- IP67 WATERPROOF MIC
- ALL DAY OPERATION
- IN CAR MONITOR
- PUBLIC ADDRESS
- ULTRA-RELIABLE
- COST EFFECTIVE
- HEADSET PORT



**XCFC**  
Custom Front Cover option



**XLMC**  
Standard long rotary shoulder mount clip



**XNMC**  
Non-metal rotary shoulder mount clip



**XMVC**  
mobile charger  
Included with XEX2



**XCA-\*\*\*\***  
Radio Adaptor  
Refer price book  
(typical style;e)



**X10DR Elite Plus**  
Rooftop Gateway

**XTBM**  
Talk Back Remote Spk Mic- connects via XDIA to gateway



Mounting Clip



**XMDM2**  
Mobile charger mounting arm



**XPB-C14**  
In-line power bank Interface Box



**XMG2**  
Hughes 2100 MSat interface



**X10DR Elite Plus**  
Standard Gateway



**XSJB (V2)**  
Dual Radio junction box  
3 Gateway/ 2 Radio  
Incl. 1 x XIC-0.4 interf. Cable



**XDCI**  
15 Watt DC-DC isolation junction box  
Dimensions 50x50mm



**XDCF**  
DC Low Pass Filter  
Includes XIC-0.15  
Dimensions 50x50mm



**XDIA**  
Dual Adaptor



**XIC-0.5**  
50cm interface cable



**XIPB**  
In-line PTT suits all X10DR audio accessories



**WPHFH-X10**  
Headset Industrial lightweight

## What's included in the packages

### X10DR-EX2 Elite Plus



**XMPA** multipolarity roof/rack mount antenna kit

**XIC-1.5** 1.5m Interface Cable  
Use with radio adaptor (order separately)

**X10DRSM-EX2**  
Elite Plus Mic

### XEX2 Plus Extra Mic Accessory package includes:



**XMVC**  
Mobile charger

**XDIA**  
Dual Interface Adaptor

**XIC-0.5**  
0.5m Interface Cables (2)

### XRTG Plus Rooftop Gateway



**XIC-6.0**  
Interface cable 6m (order separately if different length desired)

Works with:



NXDN® ANALOG

more information at:

[www.x10dr.com](http://www.x10dr.com)



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