

# Long Range Wireless Microphone Digital Mobile Repeater

**X10DR**<sup>®</sup>  
Liberate Your Mobile Radio™

## 2021 Overview

- Affordable Out of Vehicle Solution
- Works further than most will walk
- 8 Years proven performance
- No contention issues
- Powerfully simple



**up to 500 meters**  
**(1600ft)**



# Long Range Wireless Microphone Digital Mobile Repeater

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Most radios

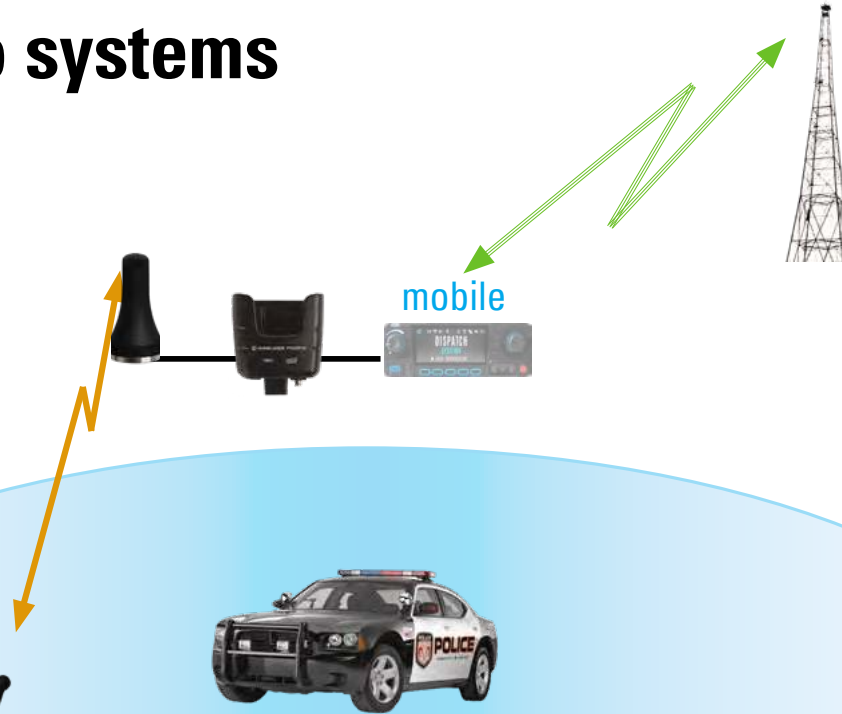


**YOUR  
MOBILE**

# Long Range Wireless Microphone Digital Mobile Repeater

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## Works with all radio systems



***up to 500 meters  
(1600ft)***

- P25 Trunked/Conv.**
- TETRA TDMA**
- NXDN Trunked/Conv.**
- MotoTrbo Trunked/Conv.**
- DMR Trunked/Conv.**
- EDACS and OpenSky**
- Analog Conv.**
- Smartnet/Zone**
- MPT1327**
- LTR**
- Marine Band**
- Airband**
- HF - SSB**
- Military applications**
- Satellite terminals**

## TIME TO GET LIBERATED™

# Long Range Wireless Microphone Digital Mobile Repeater

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## 2020 Plus Series



Enhanced  
In-to-Building  
Coverage



Toggle PTT  
assignment



Wireless  
PTT Button



Alternative  
Gateway  
Options

External battery  
connectivity



Wireless  
Charging



# Plus Series

# Long Range Wireless Microphone Digital Mobile Repeater

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## PRO Plus "Lone worker"



- Passes all audio between radio and user
- User can trigger radio's emergency
- Headset and earpiece connectivity
- Wireless PTT button option
- Wireless charging option

***up to 500 meters  
(1600ft)***



# Long Range Wireless Microphone Digital Mobile Repeater

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## PRO Plus "Lone worker"



- Dual Radio Configurations
- Mandown biometric monitor options
- Lone worker "live mic" options
- IP67 rated waterproof handset
- AES 128 dynamic encryption
- Public address capabilities

***up to 500 meters***  
***(1600ft)***



# Long Range Wireless Microphone Digital Mobile Repeater

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## Pro Plus Handset



Microphone

PTT

**SP: Volume Up**

LP: Assignable

**SP: Volume Down**

LP: Assignable

- Extra loud-clear speaker audio
- Dynamic AES voice encryption
- Wireless PTT Button option
- Mandown Monitor option
- Gateway search & select
- Hirose audio accessory port
- Superb Tx noise reduction
- Rugged IP67 waterproof
- Wireless charging model
- External battery charging
- Choice of mounting clips



Control  
Emergency

Status  
light

**LP: OFF/ON**

**SP: Search**

Hirose Audio  
charging port



# Long Range Wireless Microphone Digital Mobile Repeater

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## Pro Plus Gateway



*Standard- Up to 500 m.  
In cabin mount.  
Includes charging cup.*

### X10DRMD-PU2

- Each Pro Plus gateway provides one user a AES secure, exclusive at-scene communications channel.
- While maintaining instant mobile radio network access.
- Internal\* or rooftop antenna - Simple installation.



*Highly compact and perfect with  
wireless handset use. Mounts  
rear of mobile. Short interface  
cable and very easy install.*

### XIVG-PU2

\*reduced range





# Long Range Wireless Microphone Digital Mobile Repeater

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**PRO Plus**  
“Lone worker”

*the focal difference*

**Elite Plus**  
“Team worker”



# Long Range Wireless Microphone Digital Mobile Repeater

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## Elite Plus Team channel

Exclusive - use anywhere

License Free - no assignment or annual fees

AES Secure - 128 bit with dynamic key changes

Local - up to 600 meter radius around vehicle

Local - up to 1000 meter between users

Standalone - up to a 350 meters between users (no gateway)

**Constant host mobile radio access.**

***up to 600 meter radius***

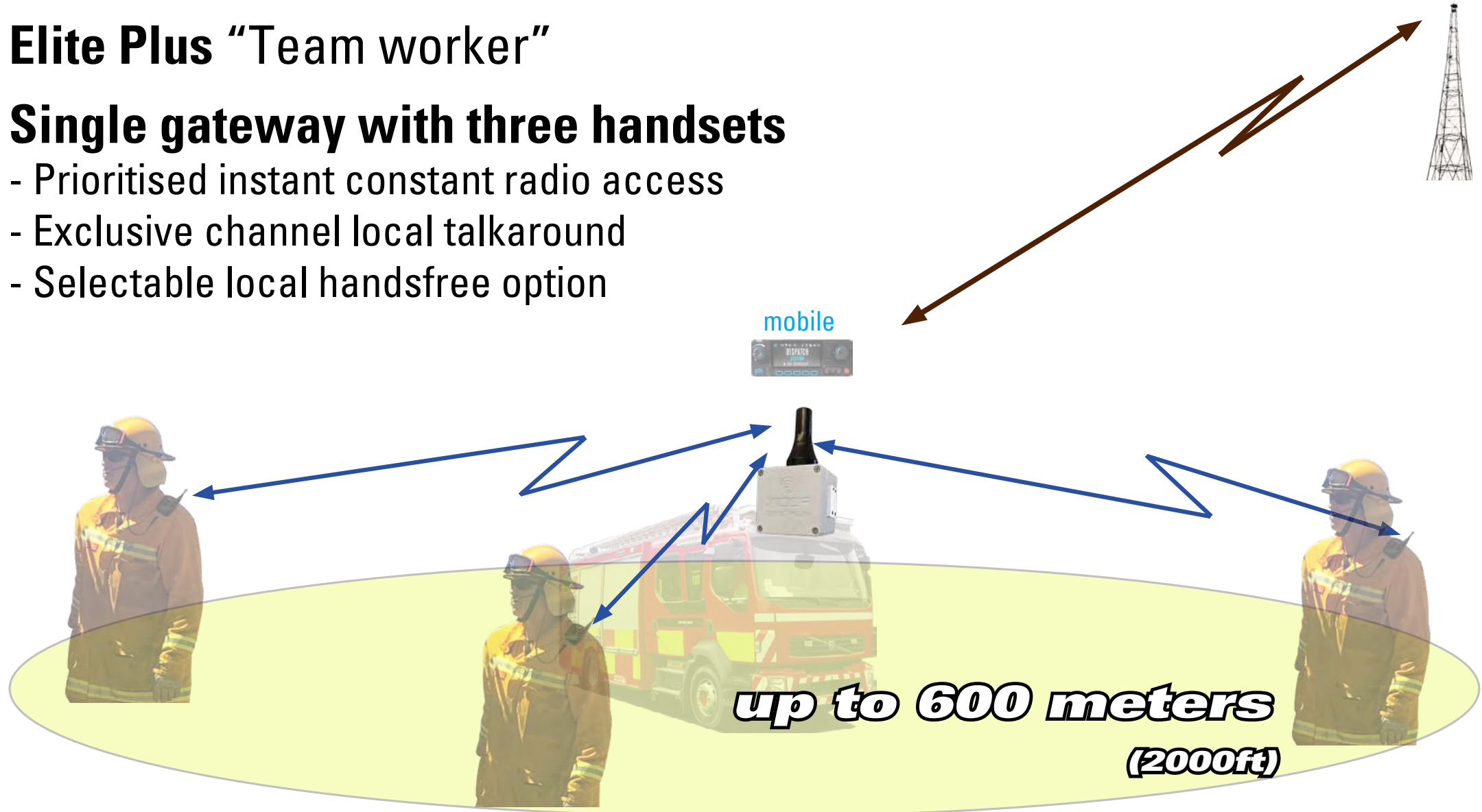


# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus "Team worker"

### Single gateway with three handsets

- Prioritised instant constant radio access
- Exclusive channel local talkaround
- Selectable local handsfree option



# Long Range Wireless Microphone Digital Mobile Repeater



## Elite Plus Handsfree

Double press Talkaround button to activate handsfree

LED glows purple

PTT button

Press to talk over main radio system



## Communication Modes

- Radio PTT
- Local Talkaround PTT
- Local Handsfree

## Handsfree Tones

- Activation Tones
- Deactivation Tones
- Reminder Tone

Others respond by pressing Local PTT or enter Handsfree mode

Single press to deactivate



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## HANDSFREE ON-SITE TALKAROUND

... Police officers responding to a crime scene will be able in real time clearly communicate every nuance of their surroundings to their partner handsfree.

... totally hands free, whether jumping a fence, apprehending a suspect or engaging in return fire

# Long Range Wireless Microphone Digital Mobile Repeater

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## **HANDSFREE ON-SITE TALKAROUND**

...Three paramedics fighting to save a driver and passengers lives at a horror auto accident can now use both hands to do whatever needs to be done, while communicating constantly with their partners.

... When someone's life is in your hands, using them to push buttons shouldn't be how we have to communicate with our partners.

# Long Range Wireless Microphone Digital Mobile Repeater

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*Liberate Your Mobile Radio™*



## HANDSFREE ON-SITE TALKAROUND

... A fire crew arriving on-scene can immediately start securing the area, rolling out the hoses, connecting them, starting pumps ...

... Or have both hands free to rescue an injured driver, to freely communicate with their fellow crew, totally hands free - even in the noisiest of environments.

# Long Range Wireless Microphone Digital Mobile Repeater

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## HANDSFREE ON-SITE TALKAROUND

... An electrical utility worker up in a “bucket” will now be free to use both hands, not only enhancing their safety but increasing their effectiveness.

... Communicating critical information with their groundman... even in the stormiest of tempest. Every team equipped with Elite Plus handsfree, can now communicate on their own local on-site comms channel... either via PTT or handsfree.



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## Elite Plus "Team worker"



**up to 500 meters  
to vehicle (1600ft)**

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**up to 500 meters  
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# Long Range Wireless Microphone Digital Mobile Repeater

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## Elite Plus "Team worker"



**up to 600 meters  
to vehicle (2000ft)**

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## Elite Plus Handset

**Control** can be:

- Talkaround (default)
- Main radio PTT
- Secondary radio PTT
- Public Address PTT
- Toggle PTT assignment



- Extra loud-clear speaker audio
- Dynamic AES voice encryption
- Toggle PTT button assignment
- Wireless PTT Button option
- On-site Handsfree option
- Mandown Monitor option
- Command relay mode
- Automatic relay mode
- Standalone mode (no gateway)
- Gateway search & select
- Hirose audio accessory port
- Superb Tx noise reduction
- Rugged IP67 waterproof
- Wireless charging model
- External battery charging
- Choice of mounting clips



Hirose Audio  
charging port



Wireless  
PTT  
Button

Status  
light

LP: OFF/ON  
SP: Search



# Long Range Wireless Microphone Digital Mobile Repeater

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## Elite Plus Gateway



*Standard- Up to 500 m.  
In cabin mount.  
Includes charging cup.*

### X10DRMD-EX2



*Longer Range - Up to 600  
m. Roof top mount. Ideal for  
Fire, Command vehicles and  
Electrical Utility vehicles*

### XRTG-EX2

*Highly compact and perfect with  
wireless handset use. Mounts  
rear of mobile. Short interface  
cable and very easy install.*



### XIVG-EX2

- Each Elite Plus gateway provides up to 3 users their own AES secure, exclusive on-site communications channel.
- While maintaining instant mobile radio network access.
- Only one rooftop antenna required - Simple installation.



# Long Range Wireless Microphone Digital Mobile Repeater

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## Elite Plus Extra Handset

- Two models:
- Standard or Wireless Charging
- On-site handsfree full duplex
- Wireless PTT button option
- Mandown monitor option
- IP67 waterproof handset



Shown with XCBC color option



XVCA  
Velcro Cover  
adaptor



X1WK  
Mobile wireless  
charger

## XEX2-W Handset



# Long Range Wireless Microphone Digital Mobile Repeater

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## X10DR Enhancements



### XWPB Wireless PTT Button

Provides:

- Mimics side button assignment
- For finger use "Handsfree" PTT
- Velcro attachment strap
- Good tactile touch
- Simple handset pairing
- Low battery alert in handset
- 23 days constant use
- Low cost CR2032 Li-Ion cell
- Rugged & Watertight IP65+

### XTBM Wired Talkback Microphone

Provides:

- Toggle Side PTT assignment
- Talk and listen to X10DR handsets
- Can talk over radio channel also
- Use as wired in - vehicle handset
- Rugged & Watertight IP67
- Standard mobile hangup clip
- Strong resilient curly cord



**XDIA**  
Dual Adaptor



Mounting Clip



**XIC-0.5**  
50cm interface  
cable

Also work with Elite and Pro models  
requires firmware update for XWPB



# Long Range Wireless Microphone Digital Mobile Repeater

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## Mandown Biometric Monitor

### Buttons Monitored

Radio PTT

Talkaround PTT

Emergency

### Movement Monitored

movement in any plane is continually monitored for change. Allowance is made for user breathing, normal sitting, standing state, etc.



### Alarm Protocol\*

Personnel safety protocol is automatically enabled whenever XMD equipped handset is removed from charger (wireless, mobile or desktop chargers)

- a/ >2 Mins no activity - Pre alert starts.
- b/ Pre-alert tones sound from handset for 30 secs if still no user action.
- c/Emergency triggered, other related handsets will sound alert tone\*\*.
- d/ Pause with user reminder feature.
- e/Custom option "30 second Live Mic".

\* Assumes fitted and enabled in XFPK programmer \*\* programamble



# Long Range Wireless Microphone Digital Mobile Repeater

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## X10DR Find Me<sup>™</sup>



Search for lost handsets or when user fails to respond.

Loud audible alert tone sounds from handset until reset.

If handset is out of range the gateway continues to search.



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# Long Range Wireless Microphone Digital Mobile Repeater

## X10DR Chargers & Mounts



### X3MK - X3MK-B

3 way charger mount (B) with DC battery back up. Use with XMVC chargers. includes XDCC-RK and 3 x XIC-0.15.12VDC input.



### X3WK - X3WK-B

3 way wireless charger (B) with DC battery back up. Use with X10DR with XHWC wireless charging fitted. Includes XDCC-RJ DC cable. 12VDC input.

### B- Integrated Battery Back Up

Mounting kits provide:

- Back up Li-Ion battery power.
- Maintain handset battery charge.
- Connect to vehicle switched battery.



### XMVC Mobile Vehicle Charger

- Red charging/Green complete.
- Disables Mandown monitor.
- Mounts to X3MK mounting kits.
- Recharge in 3-4 hours from flat.



### XPB-C14B

In-line power bank vehicles with isolated vehicle batteries



### X1WK

Mobile wireless charger  
- recharge in 3-4 hours  
from flat- 12VDC.

### XEBC

external battery cable  
90cm Hirose to USB-A  
(use with powerbank).



**XDTC** Desktop Charger  
recharge in 3-4 hours from  
flat 5V/110-240VAC.



**X6WC** 6 Way charger  
- recharge in 3-4 hours from  
flat.12V/110-240VAC.

# Long Range Wireless Microphone Digital Mobile Repeater

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## X10DR Vehicle antennas



### **XMPA**

Multi-polarity roof mount vehicle antenna kit with 5.2m LMR200 low loss coax and RP-SMA-M connector



### **XMAK**

Multi-polarity rack mount vehicle antenna kit with 5.2m LMR200 low loss coax and RP-SMA-M connector

**Using alternate antennas or coax may cause serious range reduction**

# Long Range Wireless Microphone Digital Mobile Repeater

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## X10DR Junction Boxes



**XDIA**  
Dual Interface  
Adaptor



**XJB**  
6 way multi unit  
junction box



**XSJB**  
Dual Radio  
junction box  
2 GW/ 2 Radio



**XHJB**  
Handsfree  
junction box  
3 GW/ 2 Radio



**XJB-DCI**  
6 way DC isolation  
junction box  
4 isolated/2 Std



**XDCC-RJ**  
12V DC, 3A fused,  
1.m cable RJ45

# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus Firefront™

### XCCP Firefront™ Command Control Panel

Allows:

- Individual radio receive access by gateway
- Individual radio transmit access by gateway
- Send "return to vehicle" Find Me alarm to all handsets



Enables Radio access

Commander Handset/s

Team A Handset/s

Team B Handset/s

Red = Tx&Rx access

Blue = Rx only access



### XFSB Firefront™ Smart Box

Provides:

- Triple gateway connectivity
- Dual mobile radio connectivity
- Inter-gateway handsfree capability
- Control Panel remote control access



# Long Range Wireless Microphone Digital Mobile Repeater

## X10DR Headsets



### WPHFH Industrial Grade Handsfree Headset

Provides:

- Noise cancelling microphone
- Across ear speaker design
- Directly plugs into handset
- "Keyed" Plug for easy plug-in
- Molded Hirose HR10 reliability
- 4mm OD high reliability cable



### WPATH Industrial Grade Acoustic Tube Headset

Identical to WPHFH Headset but:

- Replaceable short acoustic tube
- Ear mold (3 sizes) - stays secure
- Allows sharing - OH&S friendly



### WPULH-X10

Ultra light headset  
Use with/ without XIPB  
in line PTT



### WPSHD

Industrial heavy duty  
noise cancelling  
headset  
Use with/without XIPB  
in line PTT



### XMCH-C

Closed face  
motorcycle headset  
Use with/ without XIPB  
in line PTT



### XIPB

In-line PTT suits  
all X10DR audio  
X10 and XMCH  
accessories



*For reference only  
Purchase elsewhere*

### WPWLP-X10D

Large In-Line PTT-for Draeger or  
similar breathing apparatus

# Long Range Wireless Microphone Digital Mobile Repeater



Advanced Ear Mic with 2.5mm twist and lock ear receivers



**WPiTRQ-X10**



**WPTEP-TL**



**WPTEH-TL**



**WPEH-TL**



**WPBEH-TL**



**WPEB-TL**



**WPLEH-TL**



### XMS

10W Elite IP65 Speaker  
Can be mounted externally for Public Address use, or internally for in-car monitor.



**WP3WS-X10**

Lightweight covert 3 wire acoustic tube audio accessory



**WPTEP-X10**

Acoustic tube ear receiver with Hirose connector



**WPEH-X10**

Across ear large receiver with Hirose connector



# Long Range Wireless Microphone Digital Mobile Repeater

## X10DR Service Aids

**EXTENDED WARRANTY**  
Extend your warranty up to seven years from shipments



### XBCT

X10DR Battery Charger Tester  
- for checking chargers.



### XHBT

X10DR Handset Battery Tester  
- checks battery working condition



### XATB2-US

X10DR Advanced Test Box  
- includes XMS External Speaker and AC adaptor



### XFPK

Field Programming Kit  
- Use with programmer and XGALA Tuning Tool.

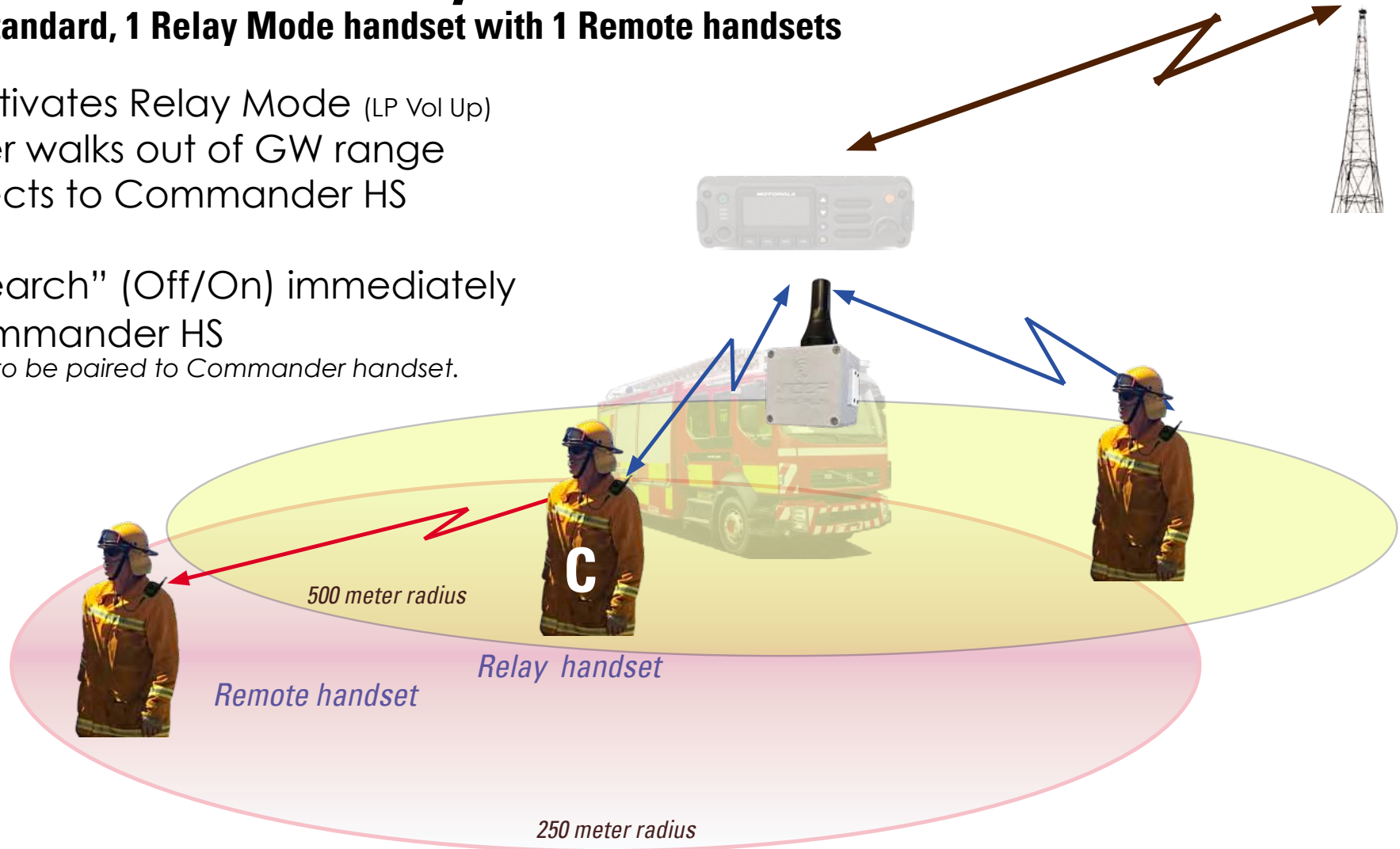


# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Command Relay Mode On

1 Gateway with 1 standard, 1 Relay Mode handset with 1 Remote handsets

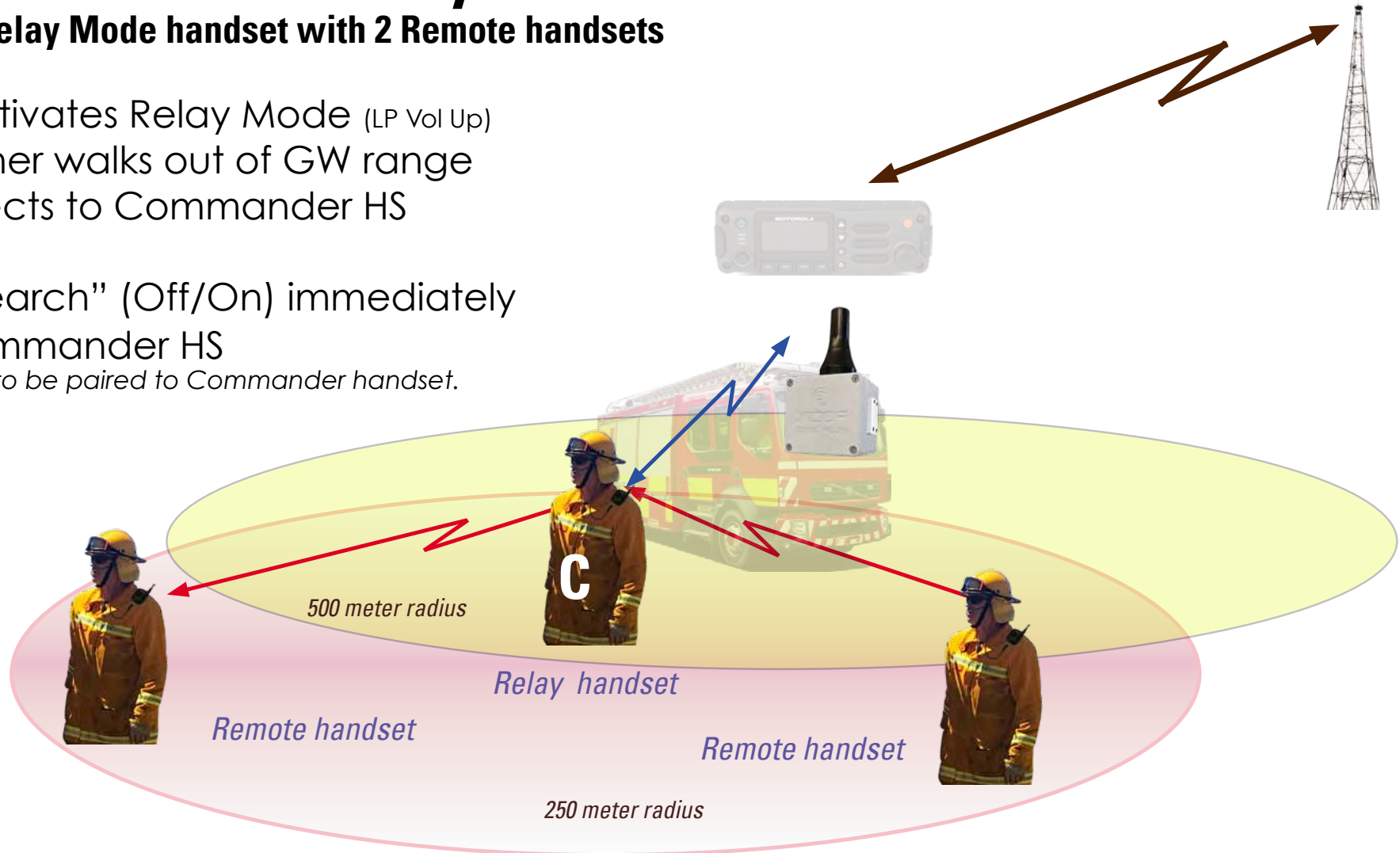
Commander activates Relay Mode (LP Vol Up)  
Remote HS either walks out of GW range  
and auto connects to Commander HS  
Or  
Short presses "Search" (Off/On) immediately  
connects to Commander HS  
*Remote handsets need to be paired to Commander handset.*



# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Command Relay Mode On 1 Gateway with 1 Relay Mode handset with 2 Remote handsets

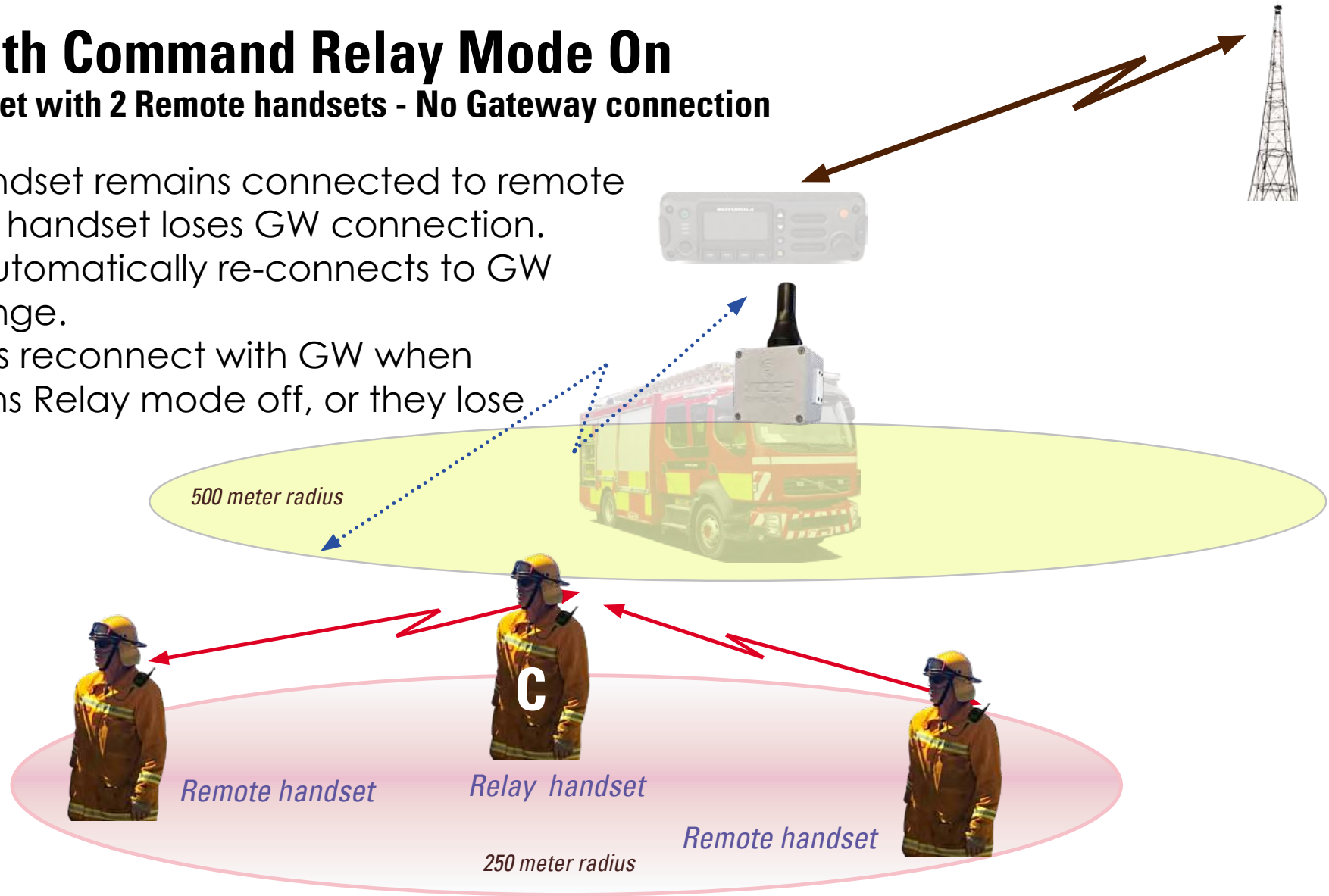
Commander activates Relay Mode (LP Vol Up)  
Remote HS's either walks out of GW range  
and auto connects to Commander HS  
Or  
Short presses "Search" (Off/On) immediately  
connects to Commander HS  
*Remote handsets need to be paired to Commander handset.*



# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Command Relay Mode On 1 Relay Mode handset with 2 Remote handsets - No Gateway connection

Commander handset remains connected to remote handsets if Relay handset loses GW connection. Relay handset automatically re-connects to GW when back in range. Remote handsets reconnect with GW when Commander turns Relay mode off, or they lose connection.

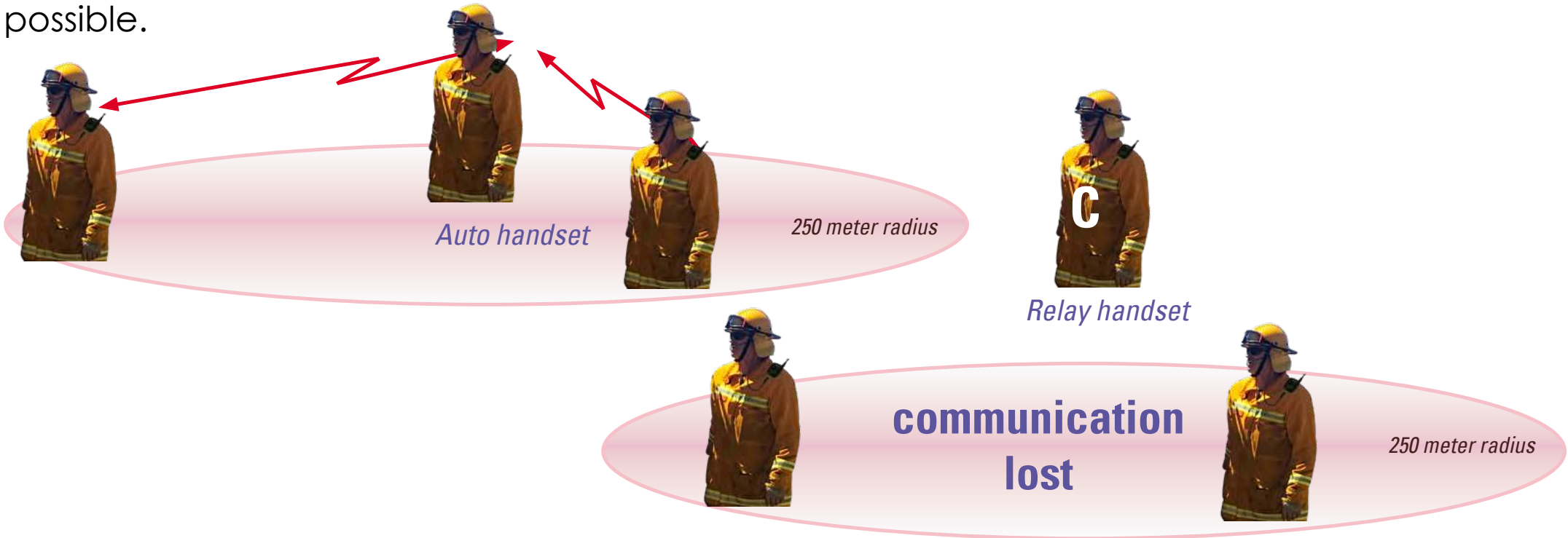


# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Command Relay Mode On

**1 Relay Mode handset with 2 Remote handsets - No Gateway connection**

Command Relay handset remains connected to other handsets and will automatically re-connect to GW when back in range. Handsets can reconnect with GW by short pressing “search” or wait until they lose connection. If connection with “Command Relay” handset is lost all handsets will search for GW or nearby Command relay handset and reconnect if possible.



# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Automatic Relay Mode On

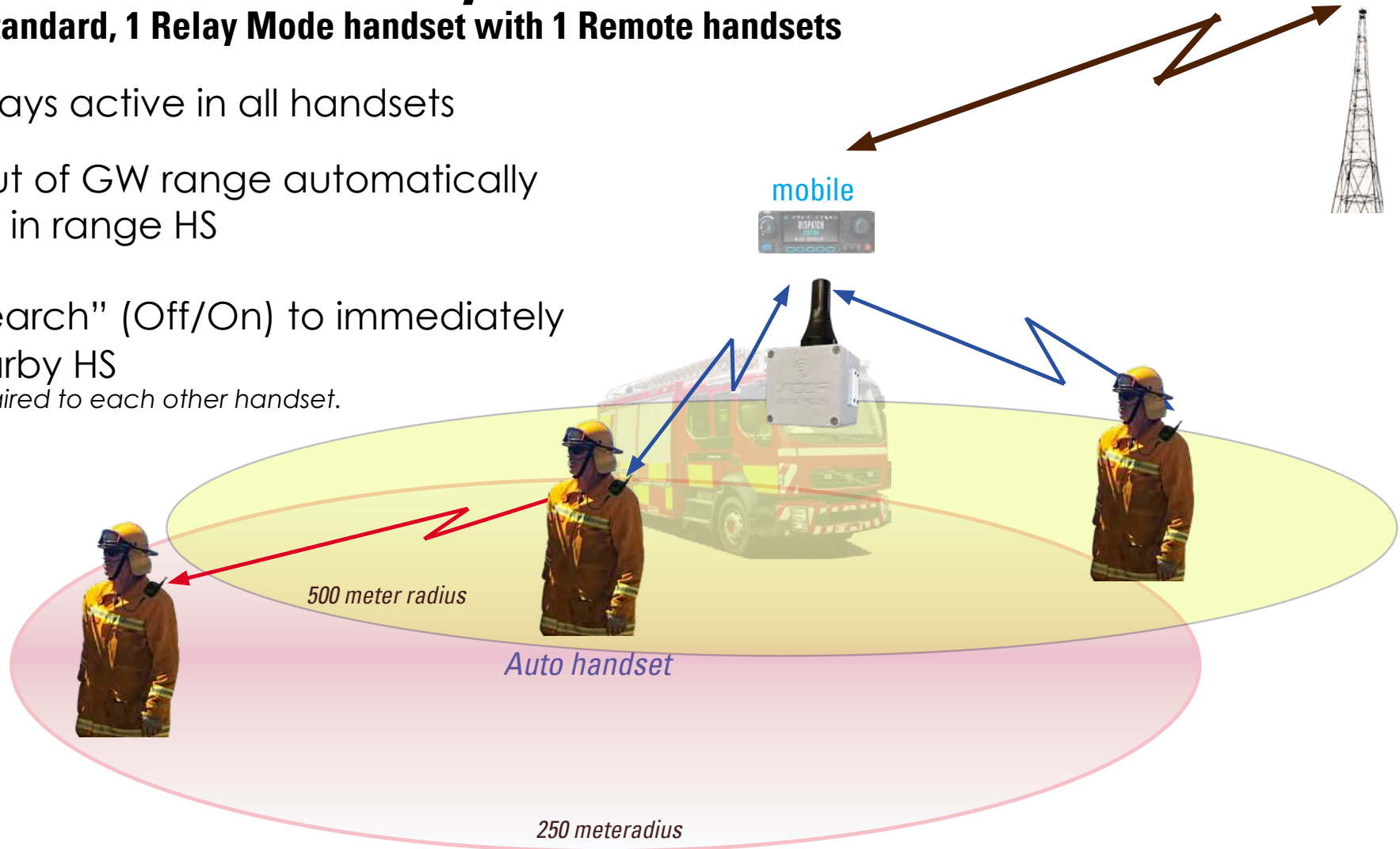
1 Gateway with 1 standard, 1 Relay Mode handset with 1 Remote handsets

Relay Mode always active in all handsets  
(LP Vol Up to OFF)

Any\* HS walks out of GW range automatically  
connects to any in range HS

Or  
Short presses "Search" (Off/On) to immediately  
connects to nearby HS

\* handset need to be paired to each other handset.



# Long Range Wireless Microphone Digital Mobile Repeater

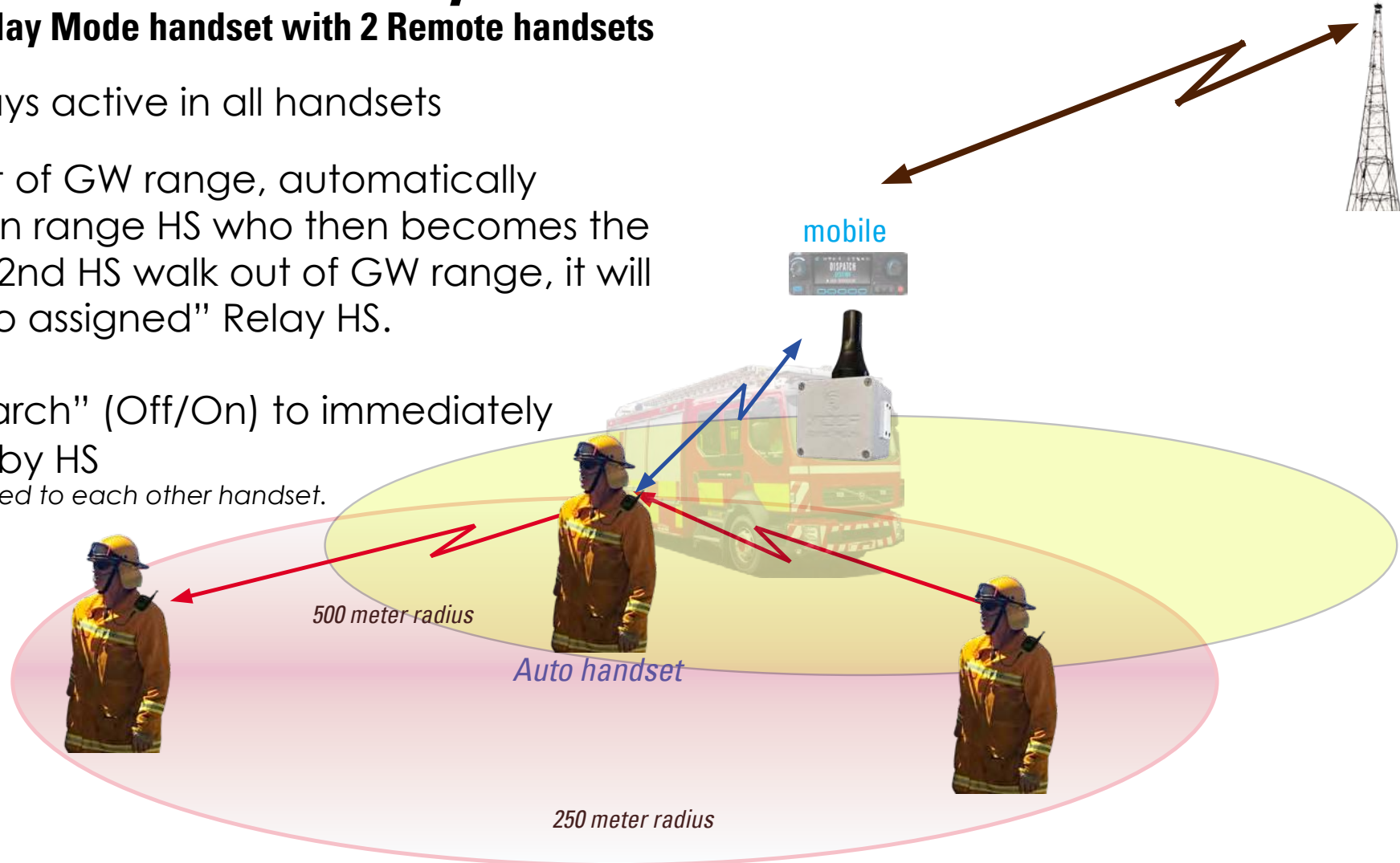
## Elite Plus with Automatic Relay Mode On 1 Gateway with 1 Relay Mode handset with 2 Remote handsets

Relay Mode always active in all handsets  
(LP Vol Up to OFF)

Any\* HS walks out of GW range, automatically connects to any in range HS who then becomes the Relay handset. If 2nd HS walk out of GW range, it will try to link via 'auto assigned' Relay HS.

Or  
Short presses "Search" (Off/On) to immediately connects to nearby HS

\* handset need to be paired to each other handset.

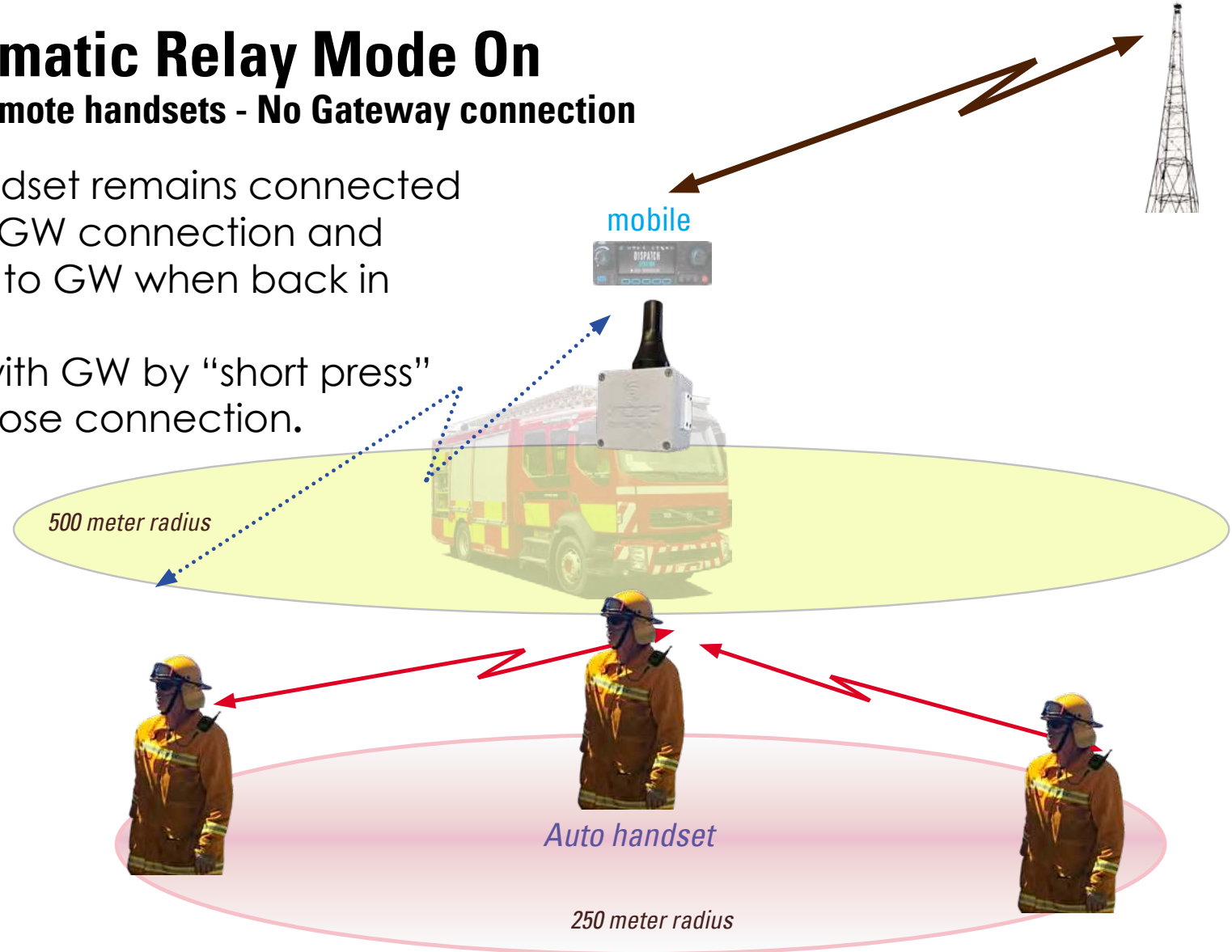


# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Automatic Relay Mode On 1 Relay Mode handset with 2 Remote handsets - No Gateway connection

“Auto assigned Relay” handset remains connected to other handsets if it loses GW connection and automatically re-connects to GW when back in range.

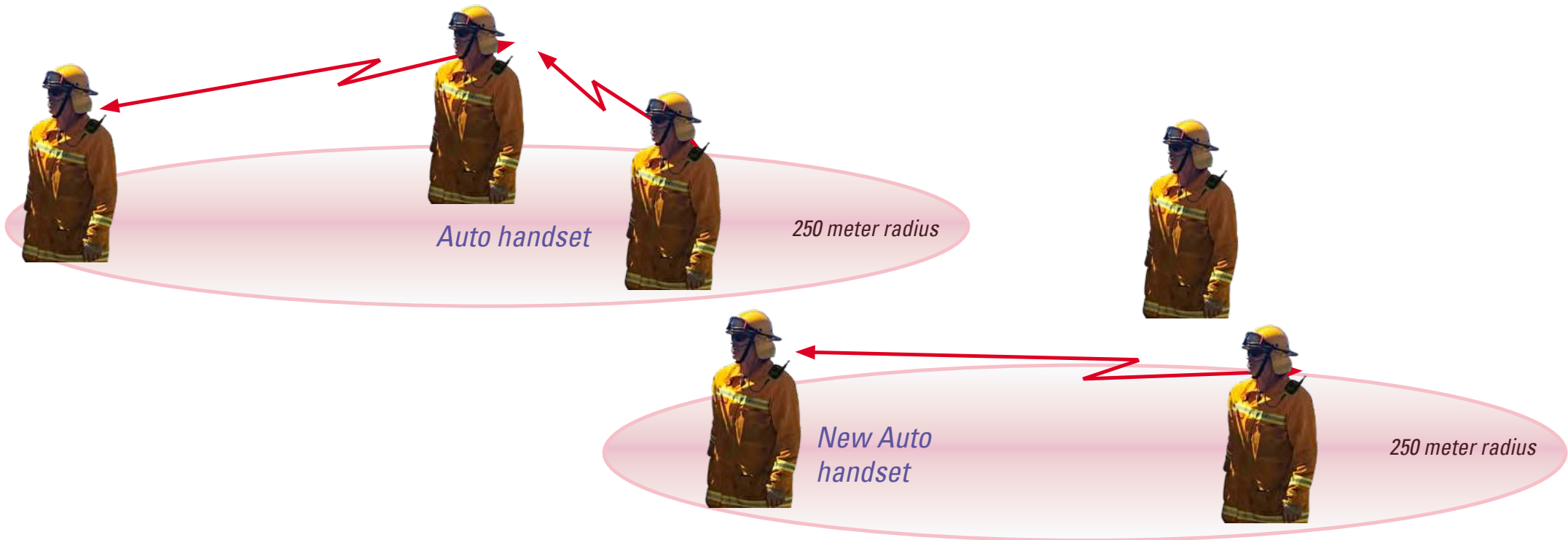
Handsets can reconnect with GW by “short press” “search” or wait until they lose connection.



# Long Range Wireless Microphone Digital Mobile Repeater

## Elite Plus with Automatic Relay Mode On 1 Relay Mode handset with 2 Remote handsets - No Gateway connection

“Auto assigned Relay” handset remains connected to other handsets and will automatically re-connect to GW when back in range. Handsets can reconnect with GW by short pressing “search” or wait until they lose connection. If connection with the “Auto assigned Relay” handset is lost, then other handset will try to link with other in range handsets.





# Long Range Wireless Microphone Digital Mobile Repeater

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## XGALA Gateway Audio Level Adjuster - OPTIMISE YOUR AUDIO QUALITY AND LOUDNESS

### “Fast tune” audio adjustment

Adjust Gateway Transmit audio output to radio  
Adjust Gateway Receive audio input from radio  
Adjust Gateway handset to handset audio level

### Simply to use:

Run X10DR Gateway Audio Level PC App.  
Plug USB cable into the gateway’s USB port  
Set your levels while listening to transmissions  
Unplug- you’re finished - it’s that quick and easy

**Download App for free:** [www.x10dr.com](http://www.x10dr.com)



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# TIME TO GET LIBERATED™

# Thankyou