

INDUSTRIAL HEADSET SYSTEMS



RUGGED, NOISE REDUCING HEADSETS FOR A SAFER WORK ENVIRONMENT

Setcom offers a wide variety of highly ruggedized, high-noise headset systems. Our headset systems will allow workers to:

- Communicate more effectively
- Protect hearing
- Comply with OSHA hearing conservation requirements

We offer products for:

- Single Person Radio Operation: Portable or Mounted Radios
- Multi-Person Wired or Wireless Headset Intercom System with radio integration



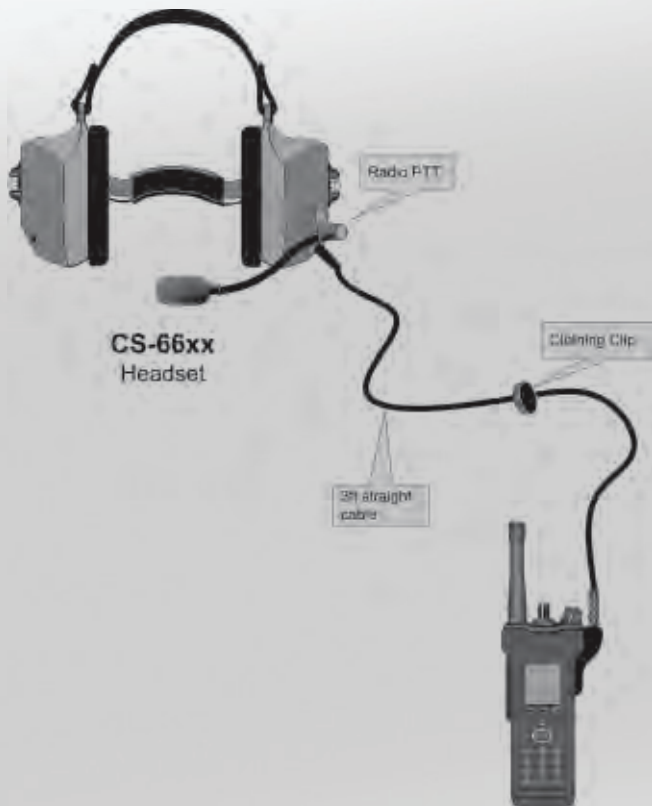


SINGLE PERSON SYSTEMS FOR RADIO COMMUNICATIONS

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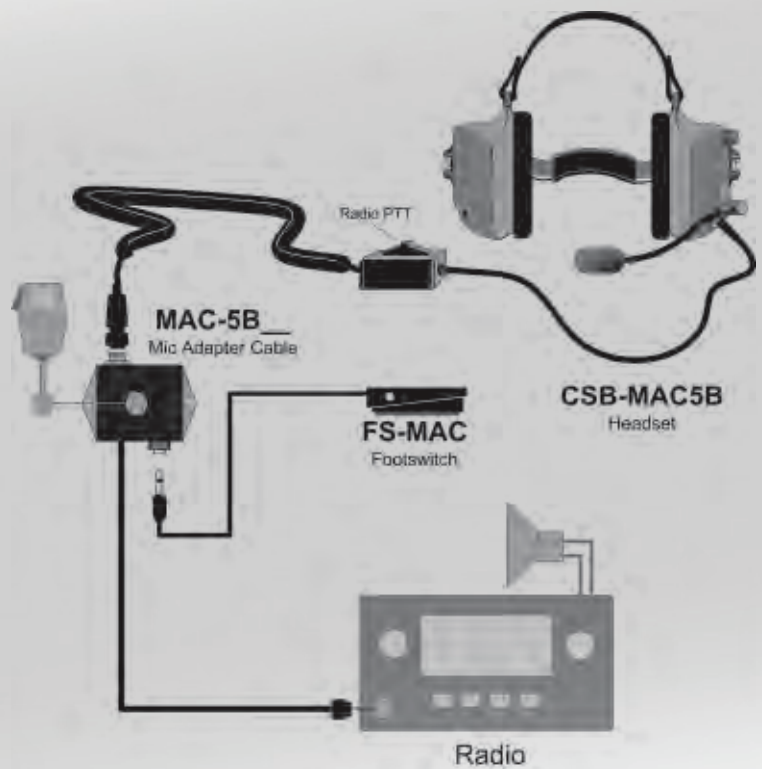
- Ability to communicate easily and effectively over a portable / mounted radio in high noise environments
- 24dB noise reduction helps to protect workers' hearing in compliance with OSHA standards
- Cut-away ear cups allow headset to be worn under most helmets
- Waterproof, flexible-boom microphone provides excellent noise cancellation and clear voice transmission
- Rugged headset that is designed to withstand harsh environments
- Repairable solutions so that maintenance is quick and easy
- Adapters available for most professional portable and mounted radios including Motorola, Harris, Kenwood, Icom, Vertex, and Tait
- Voice Activated (VOX) options available
- Assembled in U.S.A.

Portable / Handheld Radios



- Multiple Push-to-Talk(PTT) options include:
 - Button in headset cup
 - Inline box with clothing / belt clip

Mobile / Mounted Radios



- Multiple Push-to-Talk(PTT) options include:
 - Button in headset cup
 - Inline box with clothing / belt clip
 - Foot switch or dash mounted PTT
 - Pendant switch

SINGLE PERSON SYSTEMS FOR MOUNTED RADIO COMMUNICATIONS

MAC-5B System



A single person system for interior applications. The MAC-5B (Microphone Adapter Cable) provides a mobile radio interface, a quarter-turn twist lock connector for a variety of heavy-to-medium duty headsets, and a port for an optional footswitch.

PSE / PIM



Single person systems designed for exterior applications. The PIM provides two radio transmit positions, one in the cab of a vehicle and one at an exterior position. A less expensive alternative to the PIM, the PSE provides one position at an exterior position.

MAC-5C System



A single person system for interior applications. The MAC-5C (Microphone Adapter Cable) provides a mobile radio interface, a pigtail which mates with Setcom's ultra-lightweight FLH headset, and a port for an optional footswitch.

X1Crane System



The X1Crane System is designed to allow crane operators the ability to communicate over VHF / work radios hands free. Kit ships complete with radio interface, headset, and footswitch.



MULTI-PERSON SYSTEMS FOR CREW & RADIO COMMUNICATIONS

LIBERATOR X WIRELESS INTERCOM SYSTEM

Clear & Crisp “HANDS FREE” Communications

What makes the Liberator X™ system different than any other wireless intercom system on the market:

- Completely Hands Free — No Push-to-Talk (PTT) required
- Extreme Noise Canceling — Cancels noise up to 130dB
- Zero Installation Required — Just turn it on and start talking
- No Base Station Needed — Increases flexibility and mobility of communications

Setcom's Liberator X Intercom System is a versatile light-weight, rugged and water resistant wireless hands-free communication system. It is designed to meet a wide range of the most demanding communication situations, whether you are on the water or on land.

The Liberator X design combines advanced encryption technology with Setcom's exclusive Active Learning Filter Technology (ALFT) to allow users to easily communicate in extreme high-noise and high-wind environments without having to yell and shout.

The noise cancellation capabilities are simply amazing and need to be experienced in person to truly appreciate the capabilities.

Marine - Boating



- Fire-Rescue Boats
- Border Patrol
- Law Enforcement
- Airboats
- Workboat
- Tug Boats
- Go Fast Boats
- Pilot Boats
- Barges
- Dredgers
- Supply Vessels

Industrial Applications



- Large Warehouses
- Manufacturing Facilities
- Oil & Gas Production
- Construction
- Transportation
- Utility and telecom cabling activities
- Crew communications
- Vehicle communications

Law Enforcement



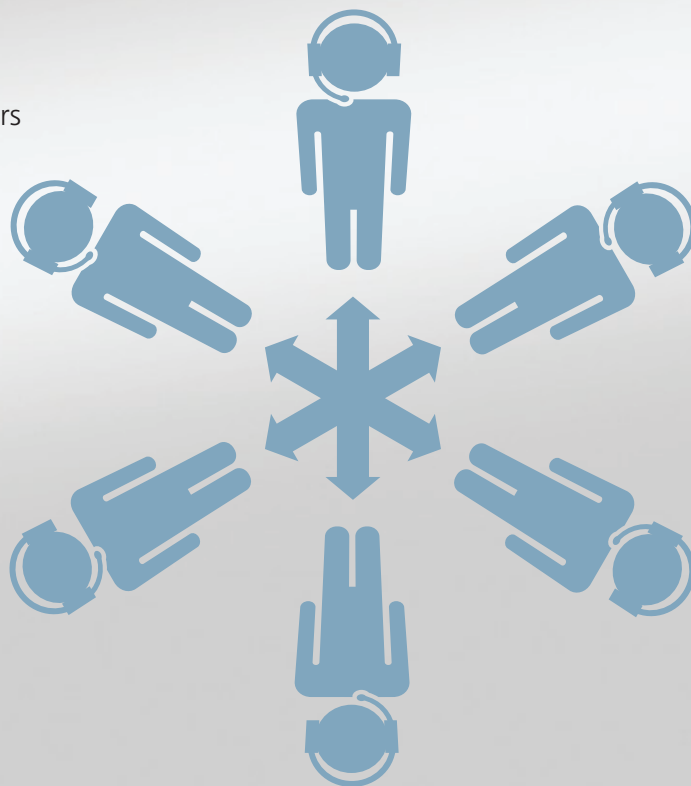
- SWAT Team Communications
- Sniper Team Communications
- Training - Provides trainers the ability to communicate with trainees at great distances
- Firing Range

LIBERATOR X WIRELESS INTERCOM SYSTEM

Premier Wireless Crew Communications System

Key Performance Features:

- Digital wireless communications between 2 to 6 operators (add up to 50 listen-only users)
- Full duplex intercom (up to 6 operators can talk simultaneously)
- Hands free operation (voice transmissions always present) – No push-to-talk
- 5 talk group channels
- Up to 1/2 mile range
- Exclusive advanced Active Learning Filter Technology (ALFT) eliminates extreme noise levels while allowing clear speech
- Encryption technology eliminates eavesdropping
- Up to 14 hours of battery life on a single charge
- Water resistant / weatherproof
- Texturized module allows easy handling in wet environments
- Ruggedized yet sleek/low profile compact module
- Electrostatic Touch Membrane (ETM) keypad eliminates mechanical buttons and switches
- Variety of headset styles. Can be used with most of Setcom's line of headsets. (heavy duty, light-weight, waterproof, etc)
- No base station required. One user module acts as base station.



MULTI-PERSON SYSTEMS FOR RADIO COMMUNICATIONS

For over 40 years, industrial professionals have relied on Setcom's communications equipment. A pioneer in the field, Setcom remains an industry leader because it works with users to develop the kind of innovative, tailor-made products professionals depend on. Professionals in the U.S.A. and many countries worldwide, rely on Setcom products everyday to provide protection and clear communications they need.

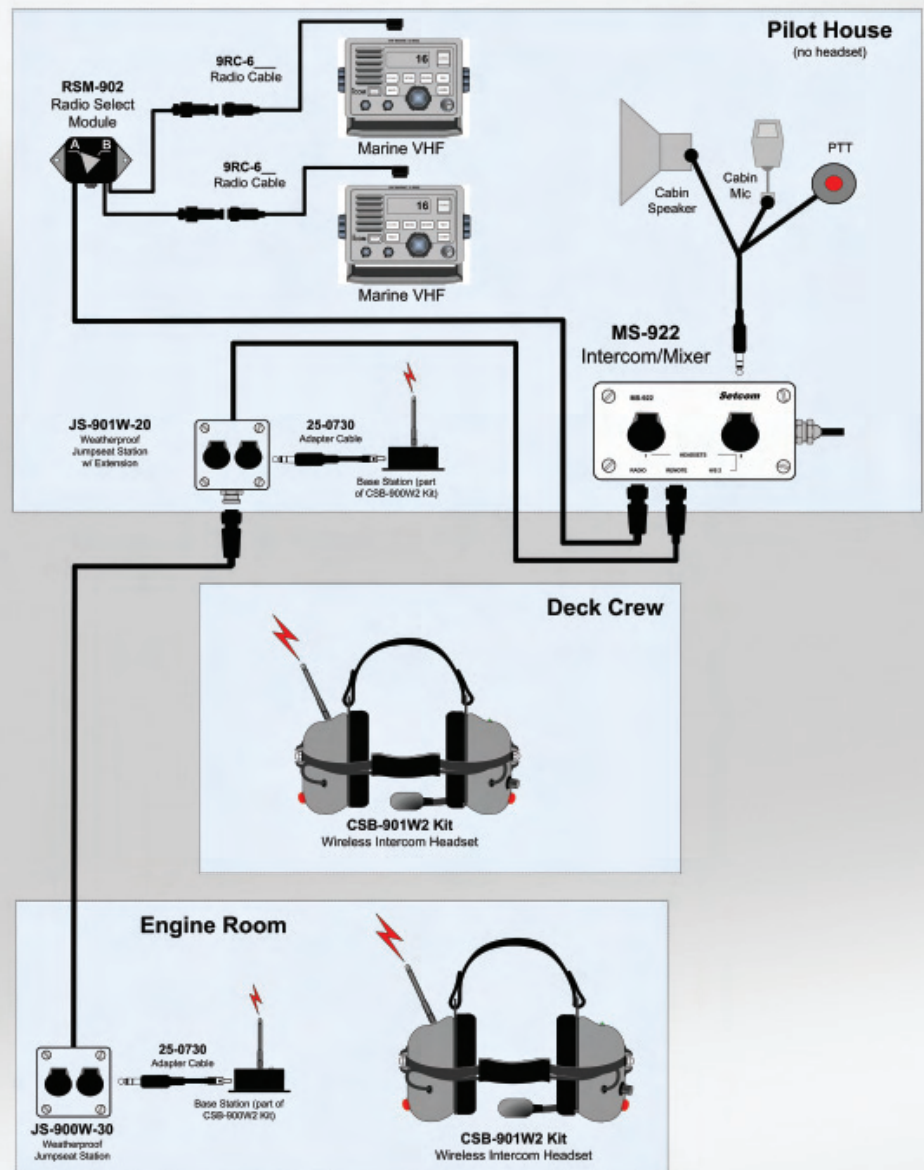
Tradition of Quality, Experience and Innovation

- Premier communications systems and accessories for all widely-used portable and mobile radios.
- Outstanding quality and durability; timetested designs: Setcom's products have been designed, engineered and assembled in the U.S.A. for over 40 years.
- Meticulous attention to quality: No product leaves Setcom without being fully tested in the United States. Your satisfaction is our highest priority.
- Customer-driven innovation: Setcom will work with you to develop a system that meets your needs.

Unequalled Service and Support

- Dedicated live technical support available 55 hours every week.
- Responsive, in-house service department, combined with fully repairable parts and components, decreases your lifetime cost of ownership.
- Two-year warranty on system components and workmanship.

Representative Workboat System



SYSTEM 900/922

Setcom's most popular and versatile intercom. Developed specifically for crew communications.

The System 900's simplicity of design cuts costs, not corners:

- With outstanding durability and 20-year legacy, the System 900 is a top-quality intercom that has been put to the test.
- This modular system accommodates up to three radios, ten crew members and fourteen positions, including eight intercom positions.
- Plug and play components and the fewest components of any leading system make the System 900 easy to install. Saving you time and money.
- Repairable parts decrease the lifetime cost of ownership, and fast repair turnaround decreases downtime.
- Setcom stands behind every system with dedicated technical support staff and an in-house service department.

Master Station

- Full-duplex intercom, allowing normal conversation among crew members
- All crew members hear both radio and intercom traffic
- Protection against radio frequency interference (RFI), electro-magnetic interference (EMI) and ground loops
- Audio input jack allows crew to enjoy entertainment audio such as weather radio, MP3, GPS, etc.
- Available with optional driver's and passenger's footswitches

Headsets

- Noise reduction rating (NRR) of 24dB, help meet NFPA 1500 and OSHA hearing conservation regulations
- Wireless option available (see insert for more details)
- Volume controls and push-to-talk (PTT) buttons in the headsets make the system easy to install, use and repair
- Radio PTT in headsets keys the radio; only the keying headset transmits over the radio
- Radio transmit headsets are always live on the intercom; available with portable radio adapter cables (PRACs) for use with portable radios
- Intercom PTT in jumpseat headsets permits intercom access and prevents unwanted noise from vacant positions
- 15-foot coil-cord eliminates the need for extension cables
- Cadmium-bronze, coil-cord conductors prevent broken conductors and intermittent audio
- Rigidly mounted in the headset to prevent broken leads
- Specifically designed for radio traffic in the voice frequency range

Speakers

Microphone

- Waterproof, amplified microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission
- Flexible-boom with counter-wound beryllium-alloy springs resists work-hardening and fatigue
- Double shielded cabling (one shield on the microphone line and another on the overall cable) prevents radio frequency and electro-magnetic interference
- Interconnecting cables are fitted with waterproof connectors
- Two Years

Cabling

Warranty



LIBERATOR TWINTALK™ INTERCOM SYSTEM

The easiest intercom system on the planet to use. Two-person intercom system that is rugged and made to be deployed instantly for numerous applications and environments. Just turn it on and you will be connected with the other headset in the pair. Incorporates all of the state-of-the-art features of the Liberator Wireless Intercom headset but does not require any installation or a base station.

- Up to 1200 feet of range (line of sight). Typical range 300ft.
- "Instant On" - No need to turn the headset on and off. Advanced motion sensor technology has been integrated into the Liberator TwinTalk headsets. Headset shuts down after 15 minutes of inactivity and will automatically turn back on when the firefighter grabs the headset.
- Cell Phone Integration - Most Bluetooth®-enabled cell phones can be used directly with the Liberator TwinTalk headset.
- No installation required. No based station needed. Just turn the headsets on and start talking.
- Up to 30 hours of continuous talk time allows for more uses with fewer charges.
- Ability to integrate portable radio into the headset allowing the user to simultaneously communicate over the portable radio and intercom.
- Encrypted 128-bit wireless link for maximum security.
- Premium dual-speaker headset with noise reduction rating of 24dB.
- Waterproof, noise-cancelling microphone for wet and rugged conditions.
- Heavy-duty and durable design to extend life in a demanding environment.
- Available in Behind-the-Head Style.
- Will operate while plugged into charging power port.

Wireless Applications and Uses:

- | | | |
|-----------------------------------|---------------------------------------|---------------------------------------|
| • Factory work crew | • High noise, industrial environments | • Aerial lifts |
| • Boat / vessel docking | • Marine communications | • Bucket trucks |
| • Railroad / train communications | • Construction sites | • Highway and road construction |
| • Crane communications | • Oil and gas drilling and fracking | • Structural and facility maintenance |



BLUETOOTH-ENABLED CELL PHONE INTERFACES

- Only Setcom offers three different ways to interface your wireless headset and vehicle intercom system with a Bluetooth-enabled cell phone.
 - Direct connection from the Liberator wireless headset
 - Connection that all intercom users can hear
 - Connection for single intercom position
- Integration applications include:
 - Interfacing to a Nextel® network
 - Adding cell phone capabilities to a mobile command center intercom system
 - Communicating with non-traditional information sources while at industrial worksites

Direct Connection via Liberator Wireless Headset

- Command Center on Your Head - Communicate with all important radio / audio devices with a single headset. With the Liberator headset, you're able to connect to:
 - up to 3 mobile radios
 - a portable radio
 - a cell phone
 - vehicle intercom system
 - entertainment audio source plugged into System 900 intercom
- Easy to Use - Simply press a switch and you are connected to your cell phone in less than two seconds.
- Direct Connection to Mobile Phone - No interface box between the Liberator wireless headset and mobile phone.
- Hear Your Call - Let the 24dB noise attenuation of your Liberator headset reduce the background noise so that you can effectively hear the caller on the other end.
- Only from Setcom - Only manufacturer to offer a direct connection to your wireless device from the Liberator wireless headset via the Bluetooth standard.



Connect via Liberator



RSM-900CPI



CPI-900SYS2

Full Intercom Connection (RSM-900CPI)

- All intercom users can hear audio from Bluetooth-enabled cell phone.
- Radio-transmit headset users are able to talk back to wireless phone.
- Easily switch between radios and the mobile phone using Setcom's Radio Select Module (RSM).
- Wirelessly connect cell phone to intercom via RSM-900CPI module that plugs into the RSM.

Single Intercom Position Connection (CPI-900SYS2)

- Using their Setcom headset, a single user is able to hear and transmit to Bluetooth-enabled mobile phone.
- Easy to Use - Simply flip a toggle to switch between intercom / mobile radio mode and cell phone mode.
- Wirelessly connect cell phone to headset via CPI-900SYS2 module that plugs into any headset port on a System 900 intercom.

HEADSETS

Setcom offers a variety of headsets for high, medium and low-noise environments.

Setcom's headsets feature:

- Outstanding quality and durability
- Compatibility with the full range of Setcom intercom systems
- Wireless and wired options available
- Refurbishment program which dramatically extends useable life, even in the most demanding environments
- Variety of volume control and push-to-talk options:
 - When used with a Setcom intercom system, the volume control(s) and push-to-talk button(s) are typically either located in the headset or integrated into the intercom system's master or remote stations.
 - For single headset applications, volume control and push-to-talk button are offered in a number of designs, including in the headset and in-line.



Liberator Wireless Headset



CSB Series Headset



8B Series Headset



5B Series Headset

Headset Alternatives

Liberator Intercom and Single Person (SP) Wireless Headsets

- "Instant On" - Advanced motion sensor technology has been integrated into the Liberator headset
- Direct headset to cell phone
- Up to 1200 ft range line-of-sight. Typical Range 300ft.
- Up to 30 hours of continuous talk time allows for more uses with fewer charges
- Available in Behind-the-Head styles
- 128-bit Encrypted wireless link for maximum security
- For use with an intercom system or stand alone with a portable radio and / or mobile phone

CSB Series Headsets - Behind the Head

- Premium dual-speaker headset with a noise reduction rating of 24dB
- Cut-away ear cups allow headset to be worn under most safety helmets
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission
- The standard for most System 900 and 922 applications

8B Series Headsets - Over the Head

- Premium dual-speaker headset with a noise reduction rating of 24dB
- Over-the-head headband and innovative noise insulation contribute to a lightweight headset that is more comfortable than most high-noise headsets
- Microphone swivels 270 degrees allowing headset to be worn right or left dress (except with Setcom's System 1310)
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission
- The standard for most System 1310 applications as well as other extended-use applications in high-noise environments

5B Series Headsets - Single Ear

- Rugged, lightweight single-speaker headset for low-noise environments
- Extremely comfortable for extended-use applications such as dispatch or command centers as well as EMS patient care
- Swivel boom allows headset to be worn right or left dress
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission

HEADSETS (continued)

More Headset Alternatives

Over-the-Head Single Muff Headset

R20B headset is a single sided/single ear headsets designed for providing crisp-clear hearing and conversations. The R20B is rugged; designed to be water, oil and grease resistant for survivability and durability in the most demanding situations.

Tactical Lightweight Headset, Dual Ear Bud

The RT40 tactical headset provides the hearing protection of a heavy duty headset without the size or weight. This headset fits under many different types of helmets. Earbud tips are available in different types and sizes.

Dual Ear Lightweight Headset

The L40 is a lightweight headset for providing clear hearing and crew conversations. It is ergonomically designed to for comfort and light weight.

Waterproof / Submersible Headset, Single or Dual Ear

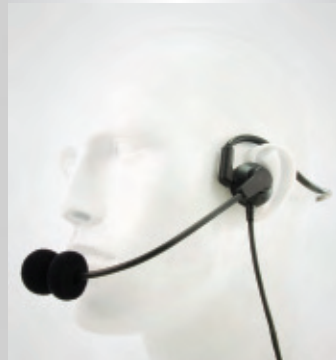
The RW20 and RW40 are waterproof (IP 67 rating) tactical style headsets. An adjustable three-point webbing design keeps the headset securely in place. The microphone boom is detachable allowing the microphone to be worn on either side of the head.



R20B Series Headset



RT40 Series Headset



L40 Series Headset



RW40 Waterproof Headset



LIBERATOR™ INTERCOM WIRELESS HEADSET

Setcom Corporation brings you the next generation of headsets for crew communications. Beyond its state-of-the-art features, our wireless headset is the most functional and durable wireless headset available.

The Liberator Wireless Headset Features:

- Backward compatible with existing wired Setcom 900 and 1300 systems
- Installs within minutes on Setcom 900 and 1300 systems
- Backward compatible with all major intercom systems from other vendors. Installs within minutes on other systems.

Specifications

- Up to 1200 feet of range (line of sight). Typical range 300ft.
- Cell phone option to directly connect to Bluetooth-compatible mobile phone
- "Instant On" – No need to turn the headset on and off. Advanced motion sensor technology has been integrated into the Liberator Headset. Headset shuts down after 15 minutes of inactivity and will automatically turn back on when the crew member grabs the headset.
- Up to 30 hours of continuous talk time allows for more uses with fewer charges
- Encrypted 128-bit wireless link for maximum security
- Elimination of some cables reduces intercom installation time and cost
- Ability to integrate portable radio into the headset allowing the crew member to simultaneously communicate over two radio channels
- Premium dual-speaker headset with noise reduction rating of 24dB
- Heavy-duty and durable design to extend life in a demanding environment
- Available in Behind-the-Head
- Will operate while plugged into vehicle's power
- Command center on your head with capabilities including connections to mobile radios, portable radio, cell phone, and intercom

Components



Liberator Wireless Headset



Liberator Wireless Base

Compatible with these Setcom Systems:



900 & 900E Intercom



922 & 922E Intercom



1300 Intercom

LIBERATOR™ SP (SINGLE PERSON) HEADSET

Much more than a portable radio headset, the Liberator SP allows a user to integrate both a cell phone and portable radio. Numerous industrial high noise applications require a concurrent communication over both a mobile phone and portable radio. Setcom's a pioneer in the mixing of multiple audio streams, and the Liberator SP takes it to the next level.

- Simultaneous Communication – Concurrent conversations over a portable radio and cell phone. Seamlessly communicate over two wireless devices with ease.
- “Instant On” – No need to turn the headset on and off. Advanced motion sensor technology has been integrated into the Liberator SP headset. Headset shuts down after 15 minutes of inactivity and will automatically turn back on when the user picks up the headset.
- Cell Phone Integration – Most Bluetooth-enabled cell phones can be used directly with the Liberator SP headset.
- Portable Radio Integration – Most popular industrial portable 2-way radios are supported
- Up to 30 hours of continuous talk time allows for more uses with fewer charges
- Premium dual-speaker headset with noise reduction rating of 24dB
- Heavy-duty and durable design to extend life in a demanding environment
- Available in Behind-the-Head Style
- Charge anywhere with either a 120V or 12V power source



INTERCOM SYSTEM-PROFESSIONAL PRODUCT TABLE

The System 900/922 Series will meet most crew communications requirements. Setcom has other systems for unique applications.

Intercom System Series	TwinTalk™	Liberator X™	900/922	1300	1600
Application / Design Description	Setcom's easiest system to set up and use. Designed for two users to wirelessly communicate up to 1,200 feet apart.	Best used for intercom only purposes. Extreme noise cancelling capabilities for ultra high noise environments.	Setcom's most versatile crew communication system. Highly modular vehicle intercom system that accommodates most situations/radios.	Premier dual radio system. Unique split audio feature allows users to distinguish between simultaneous traffic on two different radios.	A 4-person, 6 radio intercom. The System 1600 is ideal for command vehicles. It allows crew members to select, monitor and transmit over all 6 radios simultaneously.
Recommended # of Radios	1 (portable)	0	1 ---> 2	2 ---> 3	4 ---> 6
Recommended Number of Crew Members	2	2 ---> 6	1 ---> 13	1 ---> 8	1 ---> 4
Number of Radio Transmit Positions	0	0	1 ---> 4	1 ---> 6	1 ---> 6
Wireless Headset Option	✓	✓	✓	✓	
Entertainment Audio (iPod, Weather Radio)			✓	✓	
Optional Bluetooth Cell Phone Module	✓		✓		
Base Station Required			✓	✓	✓
Installation Required			✓	✓	✓
Applications:					
Civilian Watercraft	✓	✓		✓	
Public Safety / Border Patrol Marine Vessels	✓	✓	✓	✓	
Structural Fire Apparatus	✓		✓	✓	
Command Vehicles			✓	✓	✓
Mobile Command Vehicle / Unit / Center			✓	✓	✓
ARFF Vehicle				✓	✓
Workboats	✓	✓	✓	✓	
Trains	✓	✓	✓	✓	
Transit Systems	✓	✓	✓	✓	
Wild Land Fire / Brush Trucks	✓	✓	✓	✓	
Ultra High Noise (115+ dB)		✓			
Industrial Situations	✓	✓	✓	✓	

APPLICATIONS OF USE



Oil and Gas

- On / Off Shore Drilling
- Construction / Fabrication
- Exploration
- Site Command Van / Trailers
- Oil and Gas Fields
- Fracking



Workboat

- Tug Boats
- Support and Supply Vessels
- Commercial Fishing
- Crew Transportation
- Deep Sea Construction
- Escort Vessels
- Ship Refurbishment
- Salvage Operation
- Barges



Transportation

- Train Engineers and Crew
- Public Transit Systems
- Rail Services
- Marine Transportation
- Transportation Depots
- Highway and Road Construction



Manufacturing

- Work Crew
- Facility Supervising and Instruction
- Facility Tours
- Factory Floors
- Construction / Work Sites
- Crane Communications
- Maintenance Crew

OTHER MARKET AND CONTACT INFORMATION

In addition to industrial applications, Setcom is a leader in the following markets:



Police Motorcycle Communications

Setcom has been the dominant leader in police motorcycle communications since we pioneered the market in 1970. Ruggedized helmet communications systems for the most demanding riders.



Fire Apparatus Intercom Systems

Firefighters have relied on Setcom's communications equipment for over forty years. A pioneer in the field, Setcom remains an industry leader because it works with users to develop the kind of innovative, tailor-made products professionals depend on.



Marine — Public Safety

Leveraging Setcom's 40 years of experience servicing the communications of requirements of public safety vehicles and maritime communications knowledge, Setcom's public safety marine - boat systems are designed for optimal performance on public safety radio systems while on the water.



Go-Fast / Airboats

Whether you call it a go-fast, cigarette, airboat, these watercrafts are incredibly noisy environments that require superior hearing protection and the ability to quickly and easily communicate with onboard crew and onshore support staff. Setcom provides a number of different intercom configurations for any type of boat. Just ask the crew of Miss Geico. Setcom is a proud official sponsor of Miss Geico.