

The background of the advertisement is a dense, chaotic web of glowing blue lines of varying thicknesses, resembling tangled wires or optical fibers, set against a solid black background. The lines create a sense of depth and complexity.

headsets & audio  
accessories  
for the real world



[cobaltav.com](http://cobaltav.com)

**COBALT AV** brings you the new innovative communication products available, always with value pricing and quality build in mind. Established in 2003 as the house brand of ComtronICS Inc., Cobalt AV offers the largest selection of *radio audio accessories and peripherals from a single source*. Advantageously located in Lexington, KY, Cobalt AV products generally ship with 1 or 2-day UPS Ground delivery to much of the eastern and central United States. We ship to Canada daily.

*Learn more about us on page 50...*

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WIRELESS COMMUNICATION SPECIALISTS  
A Division of ComtronICS Inc.

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## COBALT SIGNATURE HEADSETS

**Cobalt muff headsets offer premium quality with value in mind.**

Our signature Cobalt blue “ecto-skin” coating provides a no-glare finish with UV protection, acoustic baffling with a rubber-coat surface that rejects scratches and scuffs. Headsets include full flex boom, PTT (or mic mute) switch, volume control and high efficiency speakers. Also comfort-fit foam ear seals, washable cloth ear covers and mic wind screen. Various types of mics are available, including the extra Cobra technology noise canceling mic.

Headset cords for portable radios or Cobalt fire truck intercoms attach and detach at ear cup for easy change-out. Headset and cord versions can be used with two-way portable and mobile radios, intercoms (wired and wireless), as well as cell and wireless phones.

Cobalt headsets are available in two Bluetooth wireless series: our NEW value price integrated BT headsets and our attachable Cobalt BLUE BT-TOP2 adapter which is available to attach to our blue muff headsets. The BT-TOP2 also works with Cobalt BLUE adapters which fit most radios plus cell phones with built-in Bluetooth.

As an alternative to our signature premium Cobalt blue muff headsets, we also offer our Value Series headsets (see page 8).

## theCOBRA: Noise Canceling Microphone

Rated among the best noise canceling microphones, **theCobra** cartridge can be added to any Cobalt “blue” headset. For the ultimate headset, add theCobra to our ANR active noise cancellation optioned headsets.

### Dramatic Noise Reduction

**TheCobra** has an average 10 dB improvement over standard headset mics with a maximum of 30 db improvement in average speech bandwidth.

### The Best Speech Intelligibility

**theCobra** microphone enables crystal clear speech in 100+ dB noise. Improves intelligibility scores to 82% in noise levels of 105 dB compared to 72% intelligibility for standard microphone. Ideal for high noise environments, **theCobra's** noise rejection performance surpasses all other microphone technologies, and is particularly stark in high noise levels.

### Noise Rejection takes a new shape

Patented noise cancellation technology rejects extraneous background noise. An acoustically based approach; theCobra accentuates the speaker's voice by concentrating it on the front port of a two-port microphone, while deflecting background noise from the back port.

### Passive Noise Canceling Technology

No processor is required, so power requirements are low.

Active noise canceling technology relies on creating an anti-noise signal to cancel out the noise in a signal. Since there is inherent overlap in frequencies between speech and noise, this results in speech signals often being identified as noise and vice versa. An observable consequence of this is distorted or garbled speech, and unsatisfactory noise cancellation. It also requires a power supply (typically, additional battery). Other electronic noise-canceling techniques use algorithms to identify a noise from a digital signal and to filter it out using digital filters. These techniques are also frequency dependent, which results in the same problems mentioned above.

Available in preamped or non-preamped electret, or dynamic versions.

### Microphone Specifications:

Sensitivity -35 dBVrms  
Impedance 2,200 Ohms  
Frequency 50-20,000 Hz  
S/N ratio >70 dB  
Mono sound

Using our acoustically based approach, **theCobra** accentuates the user's voice by concentrating it in the front of the microphone while deflecting the voice from the back port. The background noise is then directed towards both ports to reduce noise vibration.



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**Call for pricing.**



*theCobra is the tradename of Umevoice.*



# HEADSETS: Our Signature Blue Muff Series



## BEHIND the HEAD

Wear with helmet, hardhat, logo cap.  
24 dB NRR rated. Connect cord on right or left side.

- CH-20 Mic mute switch (yellow button)
- CH-21 PTT switch (red button)
- CH-31 Listen only (3.5 mm mono fixed audio cable)

## OVER the HEAD

Very comfortable headband. Rotate mic boom for left or right side. 24 dB NRR rated.

- CH-10 Mic mute switch (yellow button)
- CH-11 PTT switch (red button)
- CH-30 Listen only (3.5 mm mono fixed audio cable)



## VENTED

1 ear cup is vented with no speaker to allow listening to ambient noise.  
Connect cord on right or left side.

- CH-40 Mic mute switch (yellow button)
- CH-41 PTT switch (red button)

## LISTEN ONLY

Has coiled 3.5 mm mono audio cable.  
Dual muff with 24 dB NRR rated

- CH-30 Dual overhead
- CH-31 Dual behind head
- CH-32 Dual hardhat slot



## SINGLE EAR

Secure fit with comfort.

- CH-15 Mic mute switch
- CH-16 PTT switch (red button)



## HARD HAT

Attaches to side slots. Ear cups can be rotated to side when not in use.  
Dual muff with 24 dB NRR.

- CH-12 Mic mute switch (yellow button)
- CH-13 PTT switch (red button)
- CH-32 Listen only (3.5 mm mono fixed audio cable)



## THROAT MICROPHONE

Dual muff, 24dB NRR rated, available in behind-head, hard hat slot mount or over-head styles. Throat mic features injection molded dual mic elements covering 2/3rds of the neck area with an adjustable cloth retainer strap.

## NOTE ABOUT MICS:

Headsets normally come standard with non-amplified electret microphones when used with portable radio, wireless intercom or telephony devices. Pre-amplified electret mics are provisioned when used with mobile radios and vehicle intercoms. Dynamic mics are also available.



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## VALUE SERIES HEADSETS



### VH-21 Behind-Head Dual Muff

**Pit crew racing style dual muff headset.** 23 dB NRR hearing protection with noise-canceling dynamic wire-style support boom microphone. Transmit PTT button on ear cup. 3.5 mm audio jack allows for 2nd audio device (*scanner or MP3 player*). Wear w/helmet, hard hat, logo cap.

**VH-21 Black, VH-21-GR Grey, VH-21-BL Blue\***  
Detachable radio interface cable sold separately.  
Electret, pre-amped electret and pre-amped dynamic mic cartridges available.  
\*Dynamic wire boom only.



### VH-11 Over-Head Dual Muff

**Euro-look aviation style headset.** 24 dB NRR hearing protection. Flexible electret boom microphone. Volume and transmit PTT button on ear cup. Adjustable padded over-head support for maximum comfort.

**VH-11 Black VH-11-Y Yellow**  
Detachable radio interface cable sold separately.  
General aviation cables also available.

### VH-32 Hard Hat Mount Listen Only

**Hard hat slot mount dual earmuff listen-only headphone (no microphone).** 24 dB NRR hearing protection. Includes 3.5 mm to 3.5mm cable (suitable for connection to Cobalt Speaker Microphones).

**VH-32 Black VH-32-Y Yellow**

### VH-32TM Hard Hat Mount Listen Only + Throat Mic + Tactical Switch

**Hard hat slot mount dual earmuff listen-only headphone (no microphone)** with throat mic and inline tactical PTT switch. 24 dB NRR hearing protection.

**TVH-32-TM Black**  
**TVH-32Y-TM Yellow**



### VH-13 Hard Hat Slot Mount

**Clips to most standard hard hat models with side slots.** 24 dB NRR hearing protection with flexible electret boom microphone.

**VH-13 Black VH-3-Y Yellow**  
Detachable radio interface cable sold separately.  
Electret, pre-amped electret and pre-amped dynamic mic cartridges available.

## BLUE-MIC2

## BT Kit with Choice of Headsets

The **BLUE-MIC2** has an 4-contact 3.5 mm audio jack (same as Apple iPhone) for compatible wired audio accessories such as our **TM** throat mic or **DLSM** D-ring ear shell headset. **Turn your Cobalt muff headset into a wireless BT headset!** Pair with two-way radios using **Cobalt BLUE BT adapters** or cell phones.



TM



DLSM



CH-21

## FEATURES:

- 10+ hours of battery life
- Built-in wireless PTT
- Built-in microphone auto-switch technology Covert LED,
- Volume controls remember settings, even when unit is turned off
- Micro USB charging jack
- 360° swivel metal clothing clip
- Compatible with Cobalt BLUE BT radio adapters and most cell phones (supports dual-pairing operation)

BLUE-MIC2



Cobalt Bluetooth accessories are compatible with several cell phone PTT applications including Motorola WAVE, Zello and Kodiak for both Android and iPhones, plus Kenwood NX-5000 radios. Note that not all BT accessories work with all PTT apps on all phones. Consult with Cobalt to confirm compatibility.



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# BT HEADSETS: Value Priced Advanced Feature Bluetooth Dual Muff Headsets

Our **NEW CobaltAV** rugged grade, Bluetooth wireless dual-muff headset line is now available in three versions:

- BT-21** Behind-the-head support, hard hat and helmet compatible
- BT-11** Over-the-head support with a comfort padded headband
- BT-13** Hard hat slot mount

These muff headsets have range of 30 feet (10 meters), talk-time 12 hours and standby time 50 hours. The technology allows dual-pairing to both cellphones and 2-way radios **AT THE SAME TIME!** (Radios using **Cobalt BLUE** radio adapters.)

Large, waterproof buttons on ear cups control cellphone and radio PTT, volume and power (back-lite). Headsets are rugged, easy to use and provide 24dB of noise reduction while being super comfortable to wear all day. *Options include:* gel-fill ear seals, cloth ear seal covers, disposable ear pad covers and easy to install microphone cartridges.



Charger cable and wall charger included.

## FEATURES:

- Fully integrated Bluetooth. No wires!
- Dual operation for simultaneous use on both radio and cellphone. Separate buttons for radio PTT and cellphone answer/hang-up.
- Rubber membrane switches: Power ON/OFF, Volume UP & DOWN, PTT & PHONE control.
- Sealed 2-color LED indicates power status, link status, PTT status, low battery and charging.
- BT-series headsets use the same hygienic accessories as other Cobalt wired muff headsets.



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## LED Indication

No indication  
**BLUE-RED-BLUE-RED** continuous  
 Two short **BLUE** flashes  
 Three **RED** flashes, then o  
 One **BLUE** flash every 2 seconds  
 One **BLUE** flash every 6 seconds  
 Continuous **RED** when PTT pressed  
 One **RED** flash every 6 seconds  
 Continuous **RED** (when connected to charger)  
 No indication (when connected to charger)

## Message Meaning

Device is OFF  
 Pairing mode  
 Device turned ON  
 Device turned OFF  
 Not paired or link lost  
 Normal paired operation  
 PTT operation  
 Low battery  
 Charging  
 Charging is finished



**BT-13**



**BT-21**

## SPECIFICATIONS

Dimensions:	220mm X 130mm X 90mm (BT-11, BT-13) 240mm X 230mm X 160mm (BT-21)
Weight:	350 grams (BT-11, BT-13) 410 grams (BT-21)
Bluetooth Version:	3.0
Bluetooth Profiles:	HSP, HFP, A2DP, AVRCP
Bluetooth Power Class:	Class 2
Sensitivity:	-90 dB
Range (Typical):	10 meters (30 feet)
Built-in Battery:	3.7V, 330mAh Lithium-Ion
Standby Current Draw:	6 mA
Standby Time:	50 hours (max)
Operating Time:	10 hours (max)
Operating Temperature Range:	-15° C to + 50° C

# LIGHTWEIGHT HEADSETS

## T-10 Single and T-20 Dual Ear Headsets Feature:

- Newly retooled design
- Replaceable oversized leatherette ear pads. (Foam filled fabric covered also available.)
- Flexible metal boom microphone with replaceable windscreen.
- Noise reducing electret condensor microphone. (Dynamic and pre-amp electret also available.)
- Pre-amp electret and dynamic mics available.
- Comfortable adjustable metal overhead support with replaceable padding.
- Inline PTT for radio uses, mute switch for phones and no switch for intercoms.
- Headsets may be configured for radios, phones, intercoms, aviation or computers.
- Perfect for dispatch, retail, restaurant, movie/TV set, hospitality, entertainment and industrial.
- Available for OEM users.
- T-20 is hard hat, helmet, logo cap compatible.



T-20 Dual Ear Headset



T-20 Dual Ear Headset



T-10 Single Ear

With our innovative convertible design, the T-20 headset comes ready to be used with hard hat, helmet or caps. To convert, simply install provided nylon strap in the ear speaker slots at 90 degrees from headband, put on headset with strap over head, shifting headband to become a neck band, adjust buckle to correctly position speakers over ears and reposition boom mic.

### Standard Microphone:

Type	Noise Canceling Electret Condenser Mic
Sensitivity	-47±-3dB
Impedance	680Ω Typ
Frequency	500Hz - 8000Hz
Standard operation voltage	10V
Current Consumption	Max. 0.4mA
Sensitivity reduction	-3dB at 1V
S/N ratio	> 60dB

## SPECIFICATIONS

### Speaker:

Size	Outer Diameter 40mm
Impedance	300Ω @ 1kHz
Power Rating	Nominal 10mW RMS, 20mW Max.
Output Sound Pressure Level	96 ± 3dB / 100mW / 1cm
Frequency Range	100Hz - 10Hz
Distortion	5% Maximum at 1KHz / 100mW

## TT

Temple transducer headset with bone conduction speakers and boom mic. Inline PTT. Hard hat/helmet compatible



## KLSB

Similar to KLSA but has acoustic tube ear kits for use in noisy applications.



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## DT-818

The DT818 headset has Anti-Radiation circuitry, inline volume control with mic gain and mute switches. 2.5mm plug for cordless telephones.



## COV-QD

Covert audio adapter for portable radios converts cell phone headphones with mic into a push-to-talk for handheld radios. Use either QD adapter or BLUE adapter via Herose connector (sold separately). Depending on radio model, transmit from radio PTT, QD adapter PTT or BLUE BT adapter with BLUE-PTT. Available for: MXT, MHT, MBO, KSC, KMC and HAR.



## KLSA

Lightweight behind head support headset with N/C micro-flex boom mic and ear speaker. Inline PTT. Hard hat/helmet compatible.



KLSA pictured





# THROAT MICROPHONE



MIL  
STD  
810

IP  
68



**TM**

Our tactical throat microphone series has created a new standard in price, performance and comfort for demanding law enforcement, fire, industrial and other task critical or high noise communication applications.

The **TM** is one of the most versatile economical audio accessories yet devised. It has been effectively used in activities requiring breathing protection including SCBA's, gas masks, hazmat, plastic suit and confined space. It is also effective to talk and listen in noisy areas. Perfect for police tactical units and firefighters.

Included with our rugged use throat mic kit is a molded plastic neck mic with adjustable water sealed rubber cover, dual mic elements, clear acoustic ear tube, large round detachable tactical PTT switch and a radio connector cord. The throat mic is designed to fit necks 12 to 17 inches in size.

We also include a rubber mushroom tip ear plug and a medium-sized semi-custom ear mold connecting to an acoustic ear tube. An adjustable cloth retainer strap is now integrated into the neck mic assembly and does not generally need to be secured unless wearing inside protective clothing to insure a secure fit. Options include PHP disposable 29 dB NRR hearing protection plugs with an internal tube to attached to acoustic tube.



Tactical PTT



Semi-custom  
Ear Mold



Acoustic Tube  
with Ear Bud

# TACTICAL SWITCH HEADSET KITS

Our Tactical Switch combines with a variety of headset styles:



TKSLA

TCH21

TCH16

TCH11

With the popularity of our throat mic and bone conduction headset kits, we now provide inline round tactical switch versions of our Cobalt AV "blue" headsets and several other audio accessories.

Throat mics, bone conduction headsets and all of our tactical switch accessories come with inline round tactical switch. We also offer a switch alternative: instead of a standard switch, we can substitute a belt clip PTT with detachable finger switch.

Add these accessories to customize your kit.

**PHP-29 dB NRR Plugs**, sold in 100 per box.(shown on acoustic tube



\*Throat mic top rated IP68 (fully submersible.) Standard round tactical switch rated IP56.



Optional  
Belt and Finger  
PTT Combo



Optional new **PTT-80** large 80 mm waterproof heavy duty tactical push-to-talk (PTT) is rubber sealed to prevent water and dust damage. 360° rotating clip. Ideal for keying radio under hazmat and other encapsulating clothing.

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## T-EM: Ear Bone Microphone



The **T-EM** is a compact, lightweight ear bone microphone which combines both a speaker *and* a special microphone that picks up sound through bone vibrations in the ear canal. Its unique shape helps secure the ear microphone in the ear. Perfect for security personnel who must retain the ability to help, hear and speak directly to those not on the communication system. The **T-EM** may also be worn with protective masks and works in high noise environments, since the in-ear microphone will pick up less background noise.

### FEATURES:

- Integrated vibration mic & high-performance speaker
- Noise reducing mic element (typically >95dB)
- Ear mic design is comfortable and secure
- Rugged Kevlar reinforced cables
- Jack for optional remote finger PTT
- Durable PTT module has reinforced cable strain reliefs



## HSM: High Noise In-Helmet Skull Microphone

The **CobaltAV HSM** lightweight in-helmet communications system mounts without tools to the helmet (or hard hat) liner using a unique strap fastener system. The ear speaker provides ambient sound and allows you to hear incoming radio communications without blocking ability to hear what is going on around you. Voice transmissions are picked up by noise-resistant microphone which sense sound vibrations through the skull.

- Easily and quickly installs into most hardhats or helmets with plastic liners.
- Heavy-duty, featuring polyurethane cable, rubber, and high-impact polycarbonate.
- Picks up the voice audio directly from vibrations in the user's skull, very resistant to picking up background noise.
- Large, ambient receive ear speaker leaves ears uncovered to hear what is going on around you
- Comes with standard round tactical switch for easy activation and radio connector cord.
- Other switch options are available (sold separately) and can be interchanged with standard switch.



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## TTAK: Tactical Headset

Our **TTAK** tactical headset is a single ear speaker with boom microphone which is secured to head with adjustable elasticized straps. With its low profile, close-to-the-head design, the **TTAK** can be worn with Kevlar tactical/combat helmets, welding shields, PAPR masks and other specialized head or face gear.

It is designed to stay in place on the head during violent and kinetic movement such as while running. **TTAK's** cord is terminated with a Nexus U-94 NATO plug.

*Purchase TTAK with our combination U94 jack/trigger grip push-to-transmit switch/ heavy duty clothes pin-style clothing clip which includes radio connector cord.*  
*Most radio cords available.*



### Uses:

- Interior firefighters will like the quick don and doff of fire gear with SCBA
- Any industrial or public safety application where hard hat or helmet used and where SCBA or other face gear is also used.
- Use with welder, PAPR and other face protective shields.



Shown: HSM High Noise  
In-helmet Skull Microphone



# SURVEILLANCE KITS: For 2-Way Radios

**Cobalt AV features the widest range of surveillance kits found anywhere!.**

Sometimes referred to as *lapel mics*, *2-wire* or *3-wire kits*, we feature models with ear buds, acoustic tubes, plastic D-rings, and optional quick disconnect radio cords.

## SPYM

Medium duty rugged lapel mic with inline acoustic tube earphone featuring a micro-speaker-transducer. Heavy duty cable with strong polyurethane jacket and superior strain relief. Light and comfortable to wear, Compatible with all ear tips and semi-custom ear molds.

## BLUE-MIC2

Bluetooth lapel microphone delivers a full 10 hr. shift talk time with easy pairing, no connectivity loss, and a fully functional PTT. Requires provided ear kit for listening.



Shown: acoustic tube ear kit (KLSH)

## PYM

Inline noise reduction lapel mic/push-to-transmit/clip and clear acoustic tube reinforced transducer speaker. *This is our most popular surveillance kit.*

On acoustic ear tube models, a **KLP** rubber earplug and a right medium size **SCE** semi-custom ear mold is included. Optionally, SCE's are available in small, medium, and large for left or right ears (*except BYM*). Also available: **PHP** 29 dB NRR disposable hearing protection communication ear plugs (100 per box).

See Listen Only ear kits on pages 36-37 for more detail.



## DLBG

Inline noise reduction lapel mic/push-to-talk/clip and comfortable cleanable hygienic plastic D-ring ear shell speaker. D-ring loops over the flap of the ear and swivels for left or right ear use.

## CLBG

Inline noise reduction lapel mic/push-to-talk/clip and comfortable cleanable hygienic plastic C-loop ear shell speaker. The adjustable "C" securely loops over the flap of the ear and swivels for right or left ear use.



## KLBG

Inline noise reduction lapel mic/push-to-talk/clip and in-the-ear ear bud speaker. Soft ear hook holds the ear bud in place.

## HLBG

Inline noise reduction lapel mic/push-to-talk/clip and in-the-ear bud speaker with integrated ear hook containing receiver wire. Replacement speaker foam available.

Limited radio connectors available, including: KSC, MSC, VSS2S & MOP.



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# SURVEILLANCE KITS: For 2-Way Radios

## KLSN2

Traditional two-wire surveillance kit with clear acoustic tube reinforced transducer speaker and noise reduction lapel mic/push-to-transmit/clip assembly.



1 YEAR WARRANTY



1 YEAR WARRANTY

## BYM

Budget priced inline lapel mic/push-to-transmit/clip and clear acoustic tube transducer speaker. Limited radio connectors available, including KSC, MSC, VSS2S and MOP.



## KLSN3

For covert operations, you can conceal our 3-wire kit under clothing. Kit has clear acoustic tube transducer speaker, micro lapel mic/clip and 3rd wire for form fit barrel push-to-talk switch.

HD 1 YEAR WARRANTY

MIL STD 810

## KLSN

Two-wire kit with push-to-talk/clip module at mid-split junction module with wire to lapel mic/push-to-talk/clip and wire to clear acoustic tube reinforced transducer speaker.

1 YEAR WARRANTY

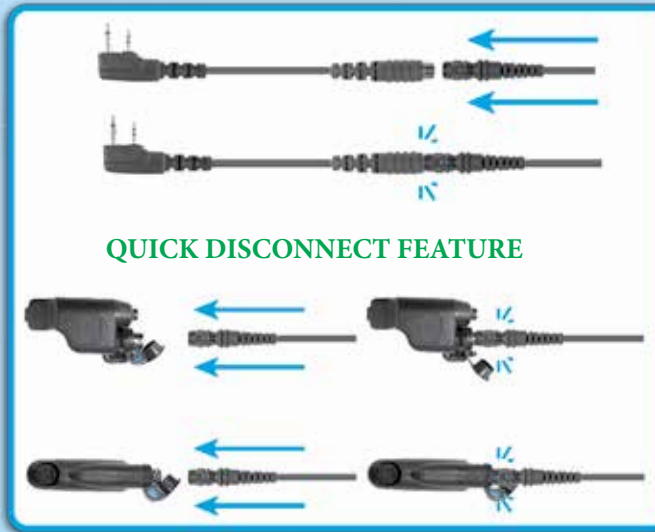
## BLBG

Budget priced inline lapel mic/push-to-transmit/clip and in-the-ear ear bud speaker. Soft earhook holds the ear bud in place.

1 YEAR WARRANTY



## QUICK DISCONNECT



### QUICK DISCONNECT FEATURE

Our **Quick Disconnect System** allows easy connect and disconnect of your audio accessory, yet is secure enough to be used in most situations. Interchangeable with all **QD Adapters**, making communications convenient for multiple radio model users.

QD's prevent wear and tear, prolonging your radio's life.

*These and other accessories are available.*



KLSA Headset



SPMW Speaker Mic

PYM Surveillance Kit



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# BLUE-MIC2: NEW Bluetooth Microphone/Headset Kits

The new **BLUE-MIC2** is a wireless lapel microphone/headset kit designed for use with **Cobalt BLUE** Bluetooth radio adapter connected a radio and/or with cell phone. *This one product replaces both the BLUE-MIC wireless lapel mic kit and the BLUE-TOP wireless headset adapter.*

## FEATURES:

- 10+ hours of battery life
- Built-in wireless PTT
- Built-in microphone (when used with ear kits), auto-switch technology
- 30 feet (10 meter) range
- Status LED, hidden from plain view
- Volume controls remember settings, even when turned off
- Standard micro USB charging jack (cable & wall plug included)
- 360° swivel metal clothing clip
- Compatible with **Cobalt BLUE** radio adapters and most cell phones
- Listen only ear kits available for surveillance kit users.
- Muff and lightweight headsets available to cut the cord between headset and radio or phone. Cables available to turn Cobalt muff headset into a Bluetooth headset.
- By using the same 4-contact 3.5 mm connector as the Apple iPhone, many aftermarket audio accessories can be connected.

### BUILT-IN MICROPHONE

When used with a listen-only ear kit, the internal mic picks up the user's voice. When an accessory containing a microphone (headset) is used, the internal mic is muted.

### STATUS LED

Status LED flashes messages that let user know current status.

### PUSH-TO-TALK BUTTON

When paired with a BLUE radio adapter, holding this button down activates Push-to-Talk feature of the two-way radio.

### PHONE BUTTON

When paired with a cellular phone, button used to manage functions such as answering or hanging up call.

1 YEAR  
WARRANTY

CLOTHING CLIP

### EARPHONE/ACCESSORY JACK

With any 3.5 mm mono or stereo listen-only earphone plugged into jack, received calls will be heard. This jack can also be used with a 3.5 mm 4-conductor (Apple iPhone compatible) audio accessory that contains both an earphone and a microphone such as Apple part numbers ME186LL/A, or MD827LL/A. When used with such any cell, received calls can be heard over the accessory earphones and transmit audio on accessory microphone.

### POWER BUTTON

Pressing this button for one second turns **BLUE-MIC2** on or off. This button is also used to place the lapel microphone in pairing mode so that it can be connected wirelessly to a **BLUE** adapter or a cellular telephone.

### VOLUME UP/DOWN BUTTONS

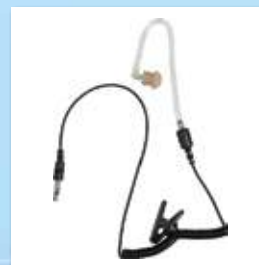
### USB CHARGE JACK

Micro-USB jack is connected to supplied charge cable to recharge internal lithium-ion battery packs.

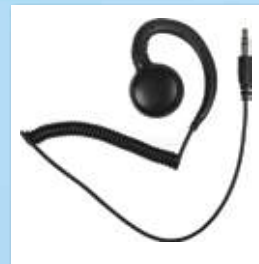
Actual Size



KLSH



SLSH



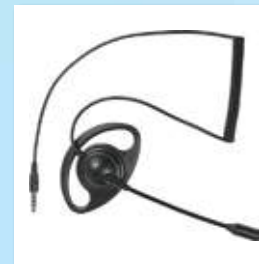
GLSH



KLSH



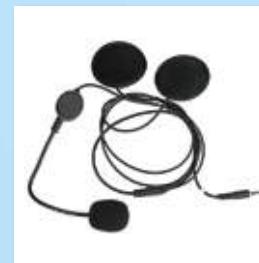
TM



DLSM



ERBD



MKB



CH3.5S4

Headset coil cable for Cobalt muff headsets. Headsets sold separately.



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## SPEAKER MICS:

### Remote Speaker Mics for 2-way Radios



IP  
56

## SPMR

### OEM style speaker microphone

This compact size water-rated rugged speaker mic is modeled after radio manufacturers' remote speaker mic style and is suited for public safety and industrial uses but small enough to be appropriate for less demanding applications.

*Private labeling available.*



## SPMW

*Our best selling speaker mic is water rated*

and designed for rugged, demanding use.

Non-slip rubber frame and replaceable radio cable.

**Cobalt AV remote speaker mics are the quality product you need--at value pricing!**

All Cobalt AV speaker mics offer excellent audio quality, along with rugged 360° swivel clip, rugged coil radio connector cord, positive action PTT switches and 3.5 mm jack for listen ear kits.

## AMPS2

### Weatherized Noise Canceling Speaker Mic



### Perfect for public safety use

Non-slip grip rubber frame with added close-talk noise-canceling microphone and fully submersible water rating. Sealed against dust and liquids.



[cobaltav.com](http://cobaltav.com)

1.800.264.6021

# AMPS1: Advanced Microphone for Public Safety



*Cobalt AV's top-of-the-line speaker mic is engineered for performance and durability.*

The AMPS1 is a heavy duty remote speaker mic built for public safety use. Engineered for performance and durability, it has a fully submersible water rating with a water shedding speaker grill covering a high output speaker. AMPS1 features a noise-canceling mic, and 6 dB high/low switch to toggle speaker volume.



## SPML

*Small lightweight remote speaker microphone*

Ideal for retail, hospitality, schools, and gaming. Even with its lighter price tag, no shortcuts are taken in sound or construction. Mic produces excellent transmit audio. Powerful speaker despite small size.



## SPMM

*MINI MIC is our smallest, lightest speaker microphone yet!*

Our most economical speaker mic. Measures only 2.8" x 1.9" x 0.85" with a 2.6 oz. mic head. Loud matches the output of much larger speaker mics. Limited radio connector cords available. *SPMM is available for limited radio connector models.*



## SPML-BLUE

Our best seller is now available in Bluetooth, with the same great features as the original wired style. *Details, page 28.*



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## SPML-BLUE: Wireless Bluetooth Speaker Mic

The Cobalt **SPML-BLUE** is the *Bluetooth-enabled version* of our popular **SPML Remote Speaker Microphone**, which connects wirelessly to any of our Cobalt Radio Adapters, and is compatible with the optional Cobalt **BT-PTT** wireless Bluetooth PTT (*sold separately*).

### FEATURES:

- Great sounding transmit and receive audio, just like the wired version!
- **Compact size:** measures only 3" H x 2" W x .6" D (excluding clip).
- **Lightweight:** weighs less than 2.5 ounces.
- Simple controls make operation easy!
- **Integrated PTT button.** To transmit, use either the PTT button on the side of the **SPML-BLUE** or on the Cobalt radio adapter.
- Also compatible with the optional Cobalt **BT-PTT** wireless Bluetooth PTT (*sold separately*).
- **Long battery life:** up to 11 hours active under typical operating conditions. USB wall charger included.
- Spring loaded metal reinforced clothing clip can be rotated 360°.
- Durable polycarbonate housing.
- Built-in earphone jack for additional privacy and security. Compatible with standard 3.5 mm earphone plug such as our **KLSH**, **KLEL**, or **KLSC**.
- *Because receive audio volume is controlled using the radio's volume control, this product is not recommended for use with our **BLUE-MOBILE** series adapters with fixed level receive audio.*

Cobalt **KLSH-S3.5** ear kit shown with **SPML-BLUE**. Earphone sold separately.



## AMPS-BLUE: Heavy Duty, Water Resistant Wireless Speaker Mic

This is the **NEW** Bluetooth version of our popular **AMPS** series remote speaker microphones. The **AMPS-BLUE** is more robust and weather resistant than our **SPML-BLUE** BT speaker mic with more than 40 hours of talk time (30 days of standby), easy pairing, no connectivity loss and fully functional PTT.

**Other features include** waterproof front-facing speaker, directional noise canceling microphone, heavy-duty 360° swivel clothing clip and strategically placed pairing and low-battery warning lights on the side of the microphone, protected by a weather-proof lens. It can be paired with several Bluetooth devices, including cell phones.

### FEATURES:

- Wireless Bluetooth version of our popular AMPS speaker mic
- Versions also available for popular cell phone PTT applications: Kodiak, Zillo and Wave.
- Great sounding transmit and receive audio, *just like the wired version!*
- Dust/weather/rain resistant to IP56 levels.
- Noise canceling microphone element.
- Typical operation range: 30 feet (10 meters)
- Talk time: 40+ hours. Standby 30 days.
- Simple operation, power and PTT switches and volume UP/DOWN.
- Built-in 3.5mm earphone jack (use any 3.5mm earphone).
- Includes wall charger and standard micro USB charging cable



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# LISTEN ONLY EAR KITS



## KLSH

Clear acoustic tube reinforced transducer kit.

**S2.5** 15 inch coil cord with 2.5 mm right angle connector

**S3.5** 15 inch coil cord with 3.5 mm right angle connector

**L2.5** 30 inch straight cord with 2.5 mm right angle connector

**L3.5** 30 inch straight cord with 3.5 mm right angle connector

Portable Radio Connector

## KLLE

D-ring over ear loop speaker kit. Swivels for left or right ear. Hygienically cleanable.

**S2.5** 15 inch coil cord with 2.5 mm right angle connector

**S3.5** 15 inch coil cord with 3.5 mm right angle connector

**L2.5** 25 inch coil cord with 2.5 mm right angle connector

**L3.5** 25 inch coil cord with 3.5 mm right angle connector

**MTC** 30 inch straight cord with 3.5 mm threaded straight connector (*MTC, see radio chart*)

**QD** 30 inch straight cord with QD connector (*mates with QD radio adapter, sold separately*)

## KLP

Ear Bud rubber mushroom shaped ear insert for large elbow fitting.

## KLAC

**KLAC** Replacement clear acoustic tube

**KLAB** Replacement black acoustic tube

**KLAZ** Replacement clear acoustic tube with metal threading

**KLAP** Replacement clear acoustic tube with plastic twist connector



## KLSC

Economy ear bud speaker kit. Soft ear-hook holds the ear bud in place.

**S2.5** 15 inch coil cord with 2.5 mm right angle connector

**S3.5** 15 inch coil cord with 3.5 mm right angle connector

**L2.5** 25 inch coil cord with 2.5 mm right angle connector

**L3.5** 25 inch coil cord with 3.5 mm right angle connector

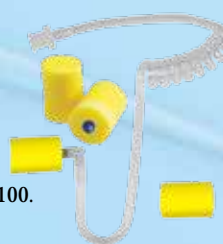
## PHP

Disposable foam hearing protectors, 29 dB NRR, for small elbow fitting. Box of 100.

## SCE

Semi-custom comfort fit ear mold for small elbow fitting.

**RS** Right small  
**RM** Right medium  
**RL** Right large  
**LS** Left small  
**LM** Left medium  
**LL** Left large



# PORTABLE RADIO ADAPTERS

See Radio Connector Chart on pgs. 32-37 for more details.

**M9716**  
MSC to MHT

**M6766**  
MTC to MXT

**M9717**  
MTC to MHT

**K0111**  
KSC to KMC

**M4455**  
MSC to MEX

**M9783**  
MSC to MBO

**NEW!**  
**BDN6603**  
MSC to MXT

**NEW!**  
**M97MBX**  
MSC to MBX

## AN-100 & N-100

Comply™ Foam Tips A-100 are for hearing your surroundings. N-100 is for noise reduction (*but not qualified hearing protection*). The patented "Dual Layer" technology increases retention to provide a secure in-ear fit and is comfortable during extended use. Compatible with acoustic tube ear kits. 3/pack or 100 per box.



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**1.800.264.6021**



# BLUE BT ACCESSORIES:

for Portable  
2-way Radios



**BLUE-MHT**  
Motorola PRO-series



**BLUE-IMC**  
Icom multi-pin



**BLUE-KMC\***  
Kenwood multi-pin



**BLUE-MBO**  
Motorola Mototrbo



\*Kenwood radios may require reprogramming in order to provide power to the BLUE-KMC. Some older Kenwood radios may be incompatible. Contact COBALT AV for compatibility.



**BLUE-PTT**



**BLUE-HAR**  
Harris current models



**BLUE-MXT**  
Motorola MXT JED1



**BLUE-VNM**  
Vertex Standard multi-pin



**BLUE-APX**  
Motorola APX P25



**BLUE-HYP**  
Hytera DMR



**BLUE-IFR**  
Icom P25

**BLUE-MEX**  
Motorola EX



COBALTBLUE™

**Cobalt Blue™ Wireless Bluetooth Adapters** allow compatible BT headsets and other audio devices to connect with portable 2-way radios. BLUE pairs easily with Cobalt BT-TOP adapters for muff headsets, SPML-BLUE speaker mics, BLUE-MIC surveillance kits, the BLUE-HS headset, and the BLUE-PTT wireless tx switch. It will also pair with many other BT headsets.

The adapter will remember paired components even when turned off. Patented "smart switch" feature automatically routes radio audio and mic to BT or wired accessory. When no audio accessory is connected, audio and mic are routed to radio's internal speaker and mic. This feature does not work on all radios. Multi-pin radio adapters shown on page 30 are powered by the connected radio (no adapter battery).

Some adapters feature Herose quick-disconnect jacks allowing use of Cobalt QD wired audio accessories when not using BT accessories--without removing adapter from radio. Adapters shown on page 31 contain a rechargeable Li-ion battery and come with wall charger. Typical battery life about 12 hours before requiring recharging. The battery powered adapters are available in a longer cord version (at no extra charge), positioning PTT where it is easier to reach and improving wireless range. Specify LC after part number such as BLUE-MSC-LC.



**BLUE-MSC**  
Motorola Radius

\*\* Portable radio connectors not shown are supported by purchasing the quick disconnect audio adapter for that radio plus the BLUE-HER QD BT adapter.



**BLUE-HYT**  
HYT TC-500/600/700



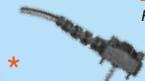
**BLUE-KSC**  
Kenwood 2-pin



**BLUE-MBX**  
Motorola XPR3000



**BLUE-HER\*\***  
Use with QD adapters



**BLUE-VSS2S**  
Vertex Standard 1-pin

**BLUE-VSC**  
Vertex Standard 1-pin



**BLUE-VTC**  
Vertex Standard top connector



**BLUE-ISC2S**  
Icom 2-pin



**BLUE-KSC-DIRECT**  
Kenwood select TK2000 and 3000 and NX-series

Radio shown with BLUE-MXT Adapter



# BLUE-MOBILE:

## BT Adapters for Vehicle or Base Station Radios

**Cobalt BLUE-MOBILE BT** newly upgraded kits allow you to use a compatible wireless Bluetooth headset or other audio accessory with a MOBILE two-way radio. The new kits eliminate the cigarette plug adapter and now provide Receive and Transmit audio. As before, all adapters feature an integrated PTT on the adapter, but are also available with optional wired foot switch or **BLUE-PTT** wireless switch.

Foot Switch



BLUE-PTT

### BLUE-MOB-IC1

**Bluetooth Adapter Kit for ICOM Mobile radios.** USES BOTH FRONT (Mic) AND REAR (Speaker) jacks. Compatible with IC-F110, IC-F110S, IC-F111, IC-F111S, IC-F121, IC-F121S, IC-F1610, IC-F1710, IC-F1721, IC-F1721D, IC-F1810, IC-F1821, IC-F1821D, IC-F210, IC-F210S, IC-F211, IC-F211S, IC-F221, IC-F221S, IC-F2610, IC-F2710, IC-F2721, IC-F2721D, IC-F2810, IC-F2821, IC-F2821D, IC-F320, IC-F320S, IC-F410S, IC-F420, IC-F420S, IC-F5011, IC-F5021, IC-F5022, IC-F5061, IC-F5062, IC-F510, IC-F5121D, IC-F521, IC-F6011, IC-F6021, IC-F6022, IC-F6061, IC-F6062, IC-F610, IC-F6121D, IC-F621, IC-F621TR, IC-F9511, IC-F9521.

### BLUE-MOB-K60

**Bluetooth Adapter Kit for Kenwood Mobile radios.** USES BOTH FRONT (Mic) AND REAR (Speaker) jacks. Compatible with TM-271, TK-762, TK-862, TK-7160, TK-8160, TK-7162, TK-8162, TK-7180, TK-8180, TK-7189, TK-8189, TKR-750, TKR-850, TK-768G, TK-868G, TK-760, TK-860, TK-780, TK-880, TK-7102, TK-8102.

### BLUE-MOB-KNX

**Bluetooth Adapter Kit for Kenwood Mobile radios.** Plugs into Rear Accessory connector (DB25) so Mic can still be used. Compatible with TK-7180, TK-8180, TK-7189, TK-8189, NX-700, NX-800, NX-900, NX-901.

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**1.800.264.6021**



### BLUE-MOB-HY1

**Bluetooth Adapter Kit for Hytera (HYT) Mobile radios.** Plugs into Rear Accessory connector (DB26). Compatible with MD78X/MD78G. Base price without wired or wireless PTT.



### BLUE-MOB-M16

**Bluetooth Adapter Kit for Motorola Mobile radios.** Plugs into Rear Accessory connector (uses Motorola OEM connector kit). Compatible with CDM Series, CM Series, GM Series, GR series, M Series, MAXTRAC Series, PM Series, SM Series. Base price without wired or wireless PTT.



### BLUE-MOB-MXTL

**Bluetooth Adapter Kit for Motorola Mobile radios.** Plugs into Rear Accessory connector (uses Motorola OEM connector kit). Compatible with XTL1500, XTL2500, XTL5000 and APX7000.



### BLUE-MOB-MXPR

**Bluetooth Adapter Kit for Motorola and MotoTRBO Mobile radios.** Plugs into Rear Accessory connector (uses Motorola OEM connector kit). Compatible with XPR4300, XPR4350, XPR4380, XPR4500, XPR4550, XPR4580, XPR5350, XPR5550, XPR8300.

### BLUE-MOB-V1

**Bluetooth Adapter Kit for Vertex Mobile radios.** Plugs into Rear Accessory connector (DB15). Compatible with EVX-5300/5400, VX-2100/2200/4100/4200/4500/4600.



### BLUE-MOB-V2

**Bluetooth Adapter Kit for Vertex Mobile radios.** Plugs into Rear Accessory connector (uses DB25). Compatible with VX-4000, VX-5500, VX-6000.



### BLUE-MOB-AM

**Bluetooth Adapter Kit for Alinco, ICOM, Kenwood, Yaesu and most other Amateur radios that use a standard 6-pin DIN Packet Radio connector.**



## BLUE-PTT: Wireless Bluetooth PTT

- Compatible with a wide variety of mobile radio models.
- LED indicator.
- Push-to-Talk function.
- USB-type charging connector.
- Allows you to activate 2-way radio's Push-to-Talk function wirelessly.
- Pairs quickly and easily with any BLUE adapter.
- Remembers paired connection even if PTT, wireless headset, or two-way radio is powered off.
- Automatically re-stores wireless connection next time PTT and BLUE Adapter are turned on.
- Multi-function LED keeps user updated on BLUE-PTT's status.
- Internal Li-Ion battery pack powers up to 12 hours per charge (charger included).





Cobalt AV stocks a wide variety of connectors to fit many radio models.

MANUFACTURER	RADIO MODELS	STYLE	DESCRIPTION	MANUFACTURER	RADIO MODELS	STYLE	DESCRIPTION
COBRA	FRS105, FRS110, FRS220, PR1100	2-PIN	-ITC (X00, IT, S1)	ICOM	This connector is available only on selected products. IC-400PRO, IC-F1020, IC-F110, IC-F110S, IC-F121, IC-F121S, IC-F1710, IC-F1721, IC-F1721D, IC-F1810, IC-F1821, IC-F1821D, IC-F2020, IC-F210, IC-F210S, IC-F221, IC-F221S, IC-F2710, IC-F2721, IC-F2721D, IC-F2810, IC-F2821, IC-F2821D, IC-F310, IC-F310S, IC-F320, IC-F320S, IC-F410, IC-F410S, IC-F420, IC-F420S, IC-F5021, IC-F5061, IC-F510, IC-F520, IC-F521, IC-F6021, IC-F6061, IC-F610, IC-F620, IC-F620TR, IC-F621, IC-F621TR, IC-F9511, IC-F9511HT, IC-F9521	MOBILE RADIO REAR AUX JACK DB-9	-MOB-11
COBRA	CXR700, CXR800, CXR900, CXR920, CXT400, LI Series, LI3900, LI5600, LI6000, LI6500, LI6700, LI7000, LI7020, MRHH100, MRHH200, PR Series, PR190, PR240, PR245, PR3000, PR3100, PR3175, PR350, PR4000, PR4100, PR4250, PR4300, PR5000, PR560	1-PIN	-MOP (X63, M8)	ICOM	This connector is available only on selected products. IC-400PRO, IC-F1020, IC-F110, IC-F110S, IC-F121, IC-F121S, IC-F1710, IC-F1721, IC-F1721D, IC-F1810, IC-F1821, IC-F1821D, IC-F2020, IC-F210, IC-F210S, IC-F221, IC-F221S, IC-F2710, IC-F2721, IC-F2721D, IC-F2810, IC-F2821, IC-F2821D, IC-F310, IC-F310S, IC-F320, IC-F320S, IC-F410, IC-F410S, IC-F420, IC-F420S, IC-F5021, IC-F5061, IC-F510, IC-F520, IC-F521, IC-F6021, IC-F6061, IC-F610, IC-F620, IC-F620TR, IC-F621, IC-F621TR, IC-F9511, IC-F9511HT, IC-F9521, Icom OPC-617	MOBILE RADIO FRONT MIC JACK RJ-45	-MOB-12
EF JOHNSON	51 SLES Series, 5100 Series, 511X, 512X, 514X, 518X, Ascend ES Series Viking VP600 Series Use MOTOROLA BDN6676 Adapter	1-PIN THREADED	-MTC (X13, M6)	ICOM	This connector is available only on selected products. IC-400PRO, IC-F1020, IC-F110, IC-F110S, IC-F121, IC-F121S, IC-F1710, IC-F1721, IC-F1721D, IC-F1810, IC-F1821, IC-F1821D, IC-F2020, IC-F210, IC-F210S, IC-F221, IC-F221S, IC-F2710, IC-F2721, IC-F2721D, IC-F2810, IC-F2821, IC-F2821D, IC-F310, IC-F310S, IC-F320, IC-F320S, IC-F410, IC-F410S, IC-F420, IC-F420S, IC-F5021, IC-F5061, IC-F510, IC-F520, IC-F521, IC-F6021, IC-F6061, IC-F610, IC-F620, IC-F620TR, IC-F621, IC-F621TR, IC-F9511, IC-F9511HT, IC-F9521, Icom OPC-617	MOBILE RADIO FRONT MIC JACK RJ-45	-MOB-12
EF JOHNSON	51 SLES Series, 5100 Series, 511X, 512X, 514X, 518X, Ascend ES Series Viking VP600 Series	MULTI-PIN	-MXT (X23, M5)	KENWOOD	TH-22AT, TH-235A, TH-28A, TH-42AT, TH-48A, TH-77A, TH-78A, TH-D7A(G), TH-F6, TH-F6A, TH-G71A, TH-K2AT, TK-208, TK-2100, TK-2102, TK-2130, TK-2160, TK-2170, TK-220, TK-2200, TK-2200LP, TK-2212L, TK-2302VK, TK-240, TK-240D, TK-248, TK-250, TK-260, TK-260D, TK-260G, TK-270, TK-270G, TK-272G, TK-308, TK-3100, TK-3101, TK-3102, TK-3130, TK-3131, TK-3160, TK-3170, TK-3173, TK-320, TK-3200, TK-3200LP, TK-3212L, TK-3230, TK-3230XLS, TK-3302UK, TK-340, TK-340D, TK-348, TK-350, TK-353, TK-360, TK-360G, TK-370, TK-370G, TK-372G, TK-373, TK-430, TK-431, TK-2312, TK-3312	2-PIN	-KSC (X01, K1)
HARRIS	P5300, P5400, P7400, Unity XG-75	MULTI-PIN	-HAR (X37, MC3)	KENWOOD	NX-200, NX-300, TK-190, TK-2140, TK-2180, TK-280, TK-290, TK-3140, TK-3148, TK-3180, TK-380, TK-385, TK-390, TK-480, TK-481, TK-5210, TK-5220, TK-5310, TK-5320, TK-5400 NX-5200/5300/5400	MULTI-PIN	-KMC (X11, K2)
HARRIS	Unity XG-100P	MULTI-PIN	-HUX (X47)	KENWOOD	PKT-23 ProTalk® LT	1-PIN	-KTC (X21, K3)
HARRIS	HDP250 (Momentum)	MULTI-PIN	-HDX (H8)	KENWOOD	This connector is available only on selected products. TK-6110, TK-630, TK-7102, TK-730, TK-760, TK-762, TK-830, TK-780, TK-8102, TK-840, TK-860, TK-862, TK-863, TK-880, TK-885, TK-930, TK-940, TK-980, TK-981	MOBILE RADIO REAR JACK MOLEX	-MOB-K1
HARRIS	HDP100, HDP150, (Momentum)	MULTI-PIN	-HYP (X55)	KENWOOD	This connector is available only on selected products. TK-6110, TK-630, TK-7102, TK-730, TK-760, TK-762, TK-830, TK-780, TK-8102, TK-840, TK-860, TK-862, TK-863, TK-880, TK-885, TK-930, TK-940, TK-980, TK-981	MOBILE RADIO FRONT MIC JACK RJ-45	-MOB-K2
HYT/HYTERA	TC-268, TC-268S, TC-270, TC-368, TC-368S, TC-370	2-PIN	-KSC (X01, K1)	KENWOOD	This connector is available only on selected products. TK-690, TK-790, TK-890	MOBILE RADIO REAR AUX JACK DB-25	-MOB-K3
HYT/HYTERA	TC-980	2-PIN	-MSC (X03, M1)	KENWOOD	This connector is available only on selected products. TK-7180, TK-7189, TK-8180, TK-8189	MOBILE RADIO REAR AUX JACK DB-25	-MOB-K4
HYT/HYTERA	TC-1600, TC-500, TC-600, TC-610, TC-620, TC-700, TC-700EX, PD-5 Series	2-PIN	-HYT (X03S, H3)	KENWOOD	This connector is available only on selected products. TK-8160, TK-8162, TK-8180, TK-8189, TK-90	MOBILE RADIO FRONT MIC JACK RJ-45	-MOB-K5
HYT/HYTERA	TC-980	MULTI-PIN	-MHT (X33, M2)	KENWOOD	SP410 PL1145, PL2215P, PL2245, PL2245P, PL2415, PL2445, PL5151, PL5161, PL5164, SP200, SP200K, SP210 Use Maxon ACC-506 adapter SL100, SL100K, SL25, SL55, SL55Plus, SL70, SP300, SP310, SP320, SP330, SP340 Use Maxon ACC-50q adapter	MOBILE RADIO REAR JACK MOLEX	-MOB-K6
HYT/HYTERA	PT-790, TC-3000, TC-3600, TC-610P, TC-780, TC-780MPT	MULTI-PIN	-MEX (X43, M3)	MOTOROLA	AXU4100, AXV5100, BPR40, CLS1110, CLS1410, CLS1413, CLS1450C, CLS1453C, CP100, CP150, CP185, CP200, CP2000, CP88, CT125, CT150, CT250, CT450, CT450LS, DTR, DTR410, DTR550, DTR650, GP200, GP2000, GP300, GP308, GP68, GP88, GTL, GTX, LTS2000, P040, P080, P110, P1225, P1225LS, P200, P2000, PRA00, RDK, RDU, RDU2020, RDU2080D, RDU4100, RDU4160D, RDU, RDU2020, RDU2080D, RDU5100, SP10, SP21, SP50, VL50, XTN, XTN446, XTN500, XTN600, XU1100, XU2100, XU2600, XV1100, XV2100, XV2600 UPDATED FOR DIGITAL MODELS	2-PIN	-MSC (X03)
HYT/HYTERA	PD782/785, PD702, PT580	MULTI-PIN	-HYP (X55, H5)	MOTOROLA	CLP Series	1-PIN	-MCLP (M7)
HYT/HYTERA	TC-320	1-PIN w/Locking Screw	-HYQ (H7)	MOTOROLA	SL7550 and SL300 Series	1-PIN	-MSL (M8)
HYT/HYTERA	X1e, X1p, PD-6 Series	MULTI-PIN	-HDX (H8)	MOTOROLA	XPR 3300, XPR 3500	MULTI-PIN	-MBX (M11)
HYT/HYTERA	PD-3 Series	1-PIN	-HYY (H9)				
ICOM	IC-02AT, IC-03AT, IC-04AT, IC-2GAT, IC-2GXAT, IC-4008A, IC-4088A, IC-80AD, IC-91A, IC-91AD, IC-F3, IC-F3S, IC-F4, IC-F4S, IC-F4TR, IC-H16, IC-H2, IC-H6, IC-J12, IC-M5, IC-Q7A, IC-T22A, IC-T22E, IC-T42A, IC-T42E, IC-T7H, IC-T90, IC-TH7H, IC-U12, IC-U16, IC-W32A	2-PIN	-ITC (X00, IT, S1)				
ICOM	IC-3GT, IC-F11, IC-F11S, IC-F21, IC-F21BR, IC-F21GM, IC-F21S, IC-F3011, IC-F3021, IC-F31, IC-F3G, IC-F3GS, IC-F4011, IC-F4021, IC-F43GS, IC-F43GT, IC-F43TR, IC-F4G, IC-F4GS, IC-F4GT, IC-U82, IC-V8, IC-V82	2-PIN	-ISC (X30)				
ICOM	F33G, F-51, F-61, IC-3GT, IC-F14, IC-F21BR, IC-F21GM, IC-F24, IC-F3021, IC-F3021T/S, IC-F31, IC-F3GS, IC-F4021, IC-F4021T/S, IC-F43GS, IC-F43GT, IC-F43TR, IC-F4G, IC-F4GS, IC-F4GT, IC-V8S	2-PIN w/2 Screws	-ISC2S (X30S, X20, 15)				
ICOM	IC-F3061T/S, IC-F30G, IC-F30GS, IC-F30GT, IC-F3161, IC-F31GS, IC-F31GT, IC-F4061T/S, IC-F40G, IC-F40GS, IC-F40GT, IC-F4161, ICF-4161, IC-F50, IC-F50V, IC-F60, IC-F60V, IC-F70, IC-F80, IC-M88	MULTI-PIN	-IMC (X10, 15)				
ICOM	IC-F9011, IC-F9021 IC-F4261, IC-F3261	MULTI-PIN	-IFR (X20, 15)				
BAOFENG	BF A58	MULTI-PIN	-MHT				



# RADIO CONNECTOR SELECTOR

Cobalt AV stocks a wide variety of connectors to fit many radio models.

MANUFACTURER	RADIO MODELS	STYLE	DESCRIPTION	MANUFACTURER	RADIO MODELS	STYLE	DESCRIPTION
<b>MOTOROLA</b>	GP900, GP9000, HT1000, MT1500, MT2000, MTS2000, MTX8000, MTX838, MTX900, MTX9000, MTX960, MTXLS, PRI500, X1500, XTS1500, XTS2000, XTS2500, XTS3000, XTS3500, XTS5000, GP1200. USE MOTOROLA BDN6676 ADAPTER	1-PIN THREADED	 <b>-MTC</b> (X13, M6)	<b>VERTEX</b>	VX-130, VX-131, VX-132, VX-160, VX-180, VX-210, VX-210A, VX-230, VX-231, VX-261, VX-264, VX-350, VX-351, VX-354, VX-400, VX-410, VX-420, VX-427, VX-450, VX-454, VX-459, EVX-531, EVX-534, EVX-539	1-PIN W/2 SCREWS	 <b>-VSS2S</b> (X225, Y4)
<b>MOTOROLA</b>	GP900, GP9000, HT1000, MT1500, MT2000, MTS2000, MTX8000, MTX838, MTX900, MTX9000, MTX960, MTXLS, PRI500, X1500, XTS1500, XTS2000, XTS2500, XTS3000, XTS3500, XTS5000, GP1200	MULTI-PIN	 <b>-MXT</b> (X23, M5)	<b>VERTEX</b>	VX-820, VX-821, VX-824, VX-829, VX-871, VX-874, VX-879, VX-920, VX-921, VX-924, VX-929, VX-971, VX-974, VX-979, VX-P820, VX-P920	MULTI-PIN	 <b>-VNM</b> (X22, Y3)
<b>MOTOROLA</b>	CBPRO, GP1280, GP140, GP320, GP328, GP329, GP338, GP339, GP340, GP360, GP380, GP640, GP650, GP680, GP960, HT1250, HT1250LS, HT1550, HT1550XLS, HT750, JT1000, MTX8250LS, MTX850, MTX850LS, MTX9250, MTX950, PR860, PRO5150, PRO5350, PRO5450, PRO5550, PRO7150, PRO7350, PRO7450, PRO7550, PRO7750, PRO9150, PTX760, PTX780	MULTI-PIN	 <b>-MHT</b> (X33, M2)	<b>VERTEX</b>	This connector is available only on selected products. VX-VX-2100, VX-2200, VX-4100, VX-4200	MOBILE RADIO REAR AUX JACK DB-15	 <b>-MOB-V1</b>
<b>MOTOROLA</b>	EX500, EX600, EX600XLS, GL2000, GP328 PLUS, GP338 PLUS, GP344, GP388, PRO5151 Elite, EX560	MULTI-PIN	 <b>-MEX</b> (X43, M3)	<b>VERTEX</b>	This connector is available only on selected products. VX-VX-2100, VX-2200, VX-4100, VX-4200	MOBILE RADIO FRONT MIC JACK RJ-45	 <b>-MOB-V2</b>
<b>MOTOROLA</b>	EM1000, FR50, FR60, FV300, FV300R, FV700R, FV750R, MH230R, MJ270R, MR350R, MR355R, SPIRITGT, SPIRITGT Plus, SX600R, SX900R, T270, T280, T289, T5100, T5200, T5300, T5320, T5400, T5410, T5420, T5500, T5600, T5620, T5700, T5710, T5720, T5800, T5820, T5920, T5950, T6200, T6210, T6220, T6250, T6300, T6320, T6400, T6500, T7200, T7400, T8500, T8550, T9500XLR, T9550XLR, T9580R, T9680R, T9750R, TalkAbout	1-PIN	 <b>-MOP</b> (X63, M8)	<b>WOUXUG</b>	KG-UV, DB Series	2-PIN	 <b>-KSC</b> (X01)
<b>MOTOROLA</b>	AAPX1000, APX4000, APX6000, and APX7000 Series, XPR6300, XPR6500, XPR6550, XPR6100, XPR6350, XPR6580, XPR6580, XPR7350, XPR7580, XPR7550, XPR7580	MULTI-PIN	 <b>-MBO</b> (X83, M11)	<b>COBALT</b>	Cobalt AMPS speaker microphone	STRAIGHT 3.5 MM 4-PIN THREADED PLUG	 <b>-AMPS</b>
<b>MOTOROLA MOBILE CONNECTORS</b>				<b>COBALT</b>	Any listen only audio accessory with 2.5 mm phone plug. S indicates 15 inch short cord. L indicates 30 inch long cord.	RIGHT ANGLE 2.5 MM 2-PIN PLUG	 <b>-S2.5 or -L2.5*</b>
<b>MOTOROLA</b>	This connector is available only on selected products. CM200, CM300, CDM1250, CDM1550, CDM750, GM Series, Maxtrac Series	MOBILE RADIO REAR AUX JACK 16 PIN	 <b>-MOB-M1</b>	<b>COBALT</b>	Any listen only audio accessory with 3.5 mm phone plug. Cobalt audio accessories use 3.5 mm jacks. S indicates 15 inch short cord. L indicates 30 inch long cord.	RIGHT ANGLE 3.5 MM 2-PIN PLUG	 <b>-S3.5 or -L3.5*</b>
<b>MOTOROLA</b>	This connector is available only on selected products. CM200, CM300, CDM1250, CDM1550, CDM750, GM Series, Maxtrac Series, MCS2000	MOBILE RADIO FRONT MIC JACK RJ-45	 <b>-MOB-M2</b>	<b>COBALT</b>		STRAIGHT 3.5 MM 2-PIN THREADED PLUG	 <b>-T3.5</b>
<b>MOTOROLA</b>	This connector is available only on selected products. MCS2000	MOBILE RADIO BOTTOM AUX JACK 25 PIN	 <b>-MOB-M3</b>	<b>COBALT</b>	Any listen only audio accessory with 2.5 mm phone plug.	STRAIGHT 2.5 MM 2-PIN PLUG	 <b>-ST2.5</b>
<b>MOTOROLA</b>	This connector is available only on selected products. XTL1500, XTL2500, XTL5000	MOBILE RADIO REAR AUX JACK 16 PIN	 <b>-MOB-M4</b>	<b>COBALT</b>	Any listen only audio accessory with 3.5 mm phone plug.	STRAIGHT 3.5 MM 2-PIN PLUG	 <b>-ST3.5</b>
<b>NEXUS</b>	NEXUS Plug. Call for compatibility.	4-CONTACT PLUG	 <b>-NX4</b>	<b>COBALT</b>	Polycom Spectralink 6000- and 8000-series wireless phones. Most cordless phones. Specify end device when ordering.	RIGHT ANGLE 2.5 MM 3-PIN PLUG	 <b>-2.5</b>
<b>NEXUS</b>	NEXUS Plug. Call for compatibility.	5-CONTACT PLUG	 <b>-NX5</b>	<b>COBALT</b>	Old series Spectralink PTB-400-series wireless phones	RIGHT ANGLE 3.5 MM 3-PIN PLUG	 <b>-3.5</b>
<b>RELM</b>	RPU416 RPU4200 RPU499 RPV4200 RPVS16 RPVS99X	2-PIN	 <b>-KSC</b> (X01, K1)	<b>COBALT</b>	HME DX-series wireless intercom stations and belt packs	RIGHT ANGLE MINI-DIN PLUG	 <b>-DX</b>
<b>RELM</b>	RPU6500, RPV6500	2-PIN	 <b>-MSC</b> (X03, M1)	<b>COBALT</b>	Clear-Com, Telex, Production Intercom wired and wireless intercom stations and belt packs	STRAIGHT XLR 4-PIN FEMALE PLUG	 <b>-X4</b>
<b>RELM</b>	RPU3000A, RPU3600, RPU3600APLUS, RPU7500, RPV3000A, RPV3600, RPV3600APLUS, RPV7500	MULTI-PIN	 <b>-MEX</b> (X43, M3)	<b>COBALT</b>	Telex RTS wired and wireless intercom stations and belt packs	STRAIGHT XLR 4-PIN MALE PLUG	 <b>-X4M</b>
<b>RITRON</b>	JMX Series, JMX-141D, JMX-144D, JMX-146D, JMX-441D, JMX-444D, JMX-446D, RTX Series, RTX-050, RTX-150, RTX-450, SST D Series, SST-144D, SST-444D, SST-446D	2-PIN	 <b>-ITC</b> (X00, I1, S1)	<b>CELL PHONE</b>	iPhone, smart phone	1-PIN (4 Band)	 <b>-AIP</b>
<b>VERTEX</b>	FT-10R, FT-40R, FT-50R, FT-60R, VX-1R, VX-2E, VX-2R, VX-5R USE VERTEX CT-44 ADAPTER FT-270, VX-120, VX-127, VX-170, VX-177, VX-6R, VX-7R USE VERTEX CT-44 ADAPTER	2-PIN	 <b>-ITC</b> (X00, I1, S1)	<b>HEROSE QD</b>	Quick Disconnect connects to QD radio adapters	MULTI-PIN	 <b>-HER</b> (X05)
<b>VERTEX</b>	FT-10R, FT-250, FT-40R, FT-50R, FT-60R, VX-10, VX-110, VX-150, VX-1R, VX-2E, VX-2R, VX-300, VX-400, VX-5R, VXF-1	2-PIN	 <b>-VSC</b> (X02, Y1)				
<b>VERTEX</b>	VX-530, VX-600, VX-800, VX-900	MULTI-PIN	 <b>-VMC</b> (X12, Y2)				
<b>TAIT</b>	TP8110, TP8115, TP8120, TP8135, TP8140	MULTI-PIN	 <b>-TAIT</b> (T8)				

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# VEHICLE INTERCOMS: With 2-way Radio Interface



800 Dual  
Radio Intercom

Cobalt AV apparatus intercoms offer effective vehicle communications and mandated hearing protection for fire and emergency responders. Jack boxes and intercoms are made of anodized magnesium alloy finish extruded aluminum with gasket seals. Cables can withstand extremes of temperature, moisture and sun. All cables are terminated with round metal locking connectors.

## 800 Dual Radio Intercom

Supports driver and officer positions and up to 2 remote pump panel/outside transmit capable positions. Up to 6 crew intercom/non-transmit positions. Includes 2 mobile radio interfaces, plus cell phone jack, audio IN with auto muting and record OUT jacks.

CH16  
Headset



550 Single  
Radio Intercom

## 550 Single Radio Intercom

Same as 800, except 1 mobile radio interface.

*Variety of headset styles available.*



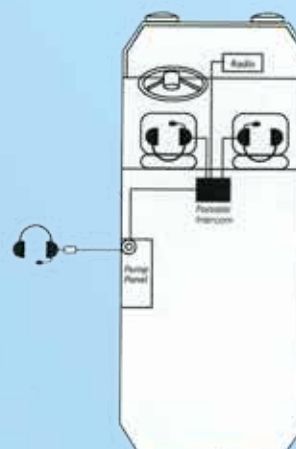
CH21



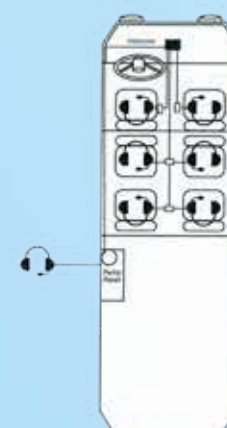
CH11



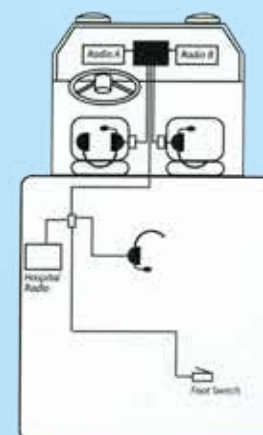
CH41



**Pumper:** 550, driver/officer, pump panel and radio interface.



**6 position:** 550, driver/officer, 4 crew, pump panel and radio interface.



**EMS:** dual radio 800 with 2 radio interfaces, driver/officer 0611 A-B switch jacks, 0640 EMS medic jack with foot switch and hospital radio interface.



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## VEHICLE INTERCOM: Accessories



**611**

Driver/officer A-B switch jack box with PTT switch (for 800 intercom).



**600**

Driver/officer transmit jack box.



**601**

Driver/officer transmit jack box with PTT switch.



**PP**

Outdoor pump panel transmit jack box with string action jack cover.



**FS**

FS Transmit function foot switch for connection to jack box or to intercom.



**HH**

Headset hanger



**635**

Dual crew non-transmit jack box

### Intercom Cables

High quality cable used for connecting intercom to jack boxes.

- 441** 5 foot
- 442** 10 foot and up in 5 foot intervals
- 434** Y-splitter cable



### Cord Assemblies

**Cobalt AV**  
5-conductor Nexus plug fits Cobalt AV intercom jacks.



**S2120-05** - 5 ft.  
**S2120-15** - 15 ft.

**David Clark**  
3/16" plug fits old style David Clark intercom jacks.



**S2110-05** - 5 ft.  
**S2110-15** - 15 ft.

**David Clark**  
1/4" military style plug fits David Clark intercom jacks.



**S2130-05** - 5 ft.  
**S2130-15** - 15 ft.

**Firecom**  
5-conductor Nexus plug fits Firecom intercom jacks.



**PTT positions:**  
**S2121-05** - 5 ft.  
**S2121-15** - 15 ft.  
**Crew positions:**  
**S2122-05** - 5 ft.  
**S2122-15** - 15 ft.

**Sigtronics & Setcom**  
1/4" plug fits both Sigtronics and Setcom intercom jacks.



**S2100-05** - 5 ft.  
**S2100-15** - 15 ft.

**David Clark/Sigtronics**  
4-conductor Nexus style plug fits David Clark and Sigtronics intercom jacks.



**S2140-05** - 5 ft.  
**S2140-15** - 15 ft.



### Headset Cord

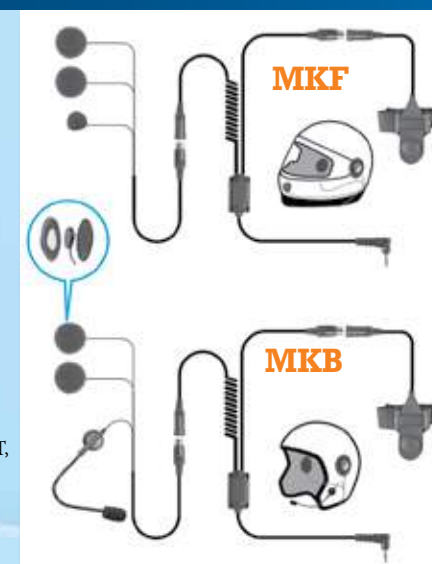
Coiled cords with Nexus 5-contact connector (used on Cobalt intercoms).  
Cords are polyurethane outer jacket with 100% foil shield for optimal RFI imm  
**S2120-05** 5 foot coil cord **S2120-15** 15 foot coil cord

### MKB/MKF Motorcycle In-helmet Headset Kit

Powerful in-helmet speakers allow the user to hear radio transmissions over road noise. High quality electret condenser element produces excellent transmit audio. Handle-bar mountable Push-To-Talk switch for convenient communications. Installs into helmet using only two-sided fastening tape. No drilling of holes is required. Modular features allow the mic system to be easily disconnected from the motorcycle. Available for both open faced (MKB) and full faced (MKF) helmets.

#### Limited radio connector cord availability:

-ISC, -ITC, -KSC, -MSC, -MOP, -MTC, -VSC, -VTC. For -KMC radios, use K0111 with -KSC. For MEX, use M4455 with -MSC. For -MHT use M9716 with -MSC or M9716 with -MTC. For MXT, use M9717 with -MTC. See connector pages 36-39 for radio chart.



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## DX410: 2-channel digital wireless system

The **DX410** is a two-channel digital wireless solution operating in the 2.4 GHz frequency band with 7 KHz wide band audio delivering an overall better experience in performance, range and sound.

### DX410 SYSTEM FEATURES:

- Two-Channels
- 2.4 GHz frequency range
- 7KHz wide band audio
- 2-wire and 4-wire bridging on the same system
- 2-wire auto-nulling
- Lost packet concealment
- Supports up to 15 belt packs and/or wireless headsets

#### Description

The **BS410** is the base station for the **DX410** wireless system. A single **DX410** base station supports up to 15 registered **BP410** belt packs and/or **WH410** All-in-One wireless headsets. Two-wire auto-nulling enables fast and accurate integration with Clear-Com and RTS wired party line systems.

#### Operation

The **BS410** is a 1RU 2-channel base station with local headset, 2- and 4-wire audio connections, auxiliary in out, and assignable relays. 2-wire connections can be set to RTS or Clear-Com and have auto-nulling. The built in 2.4GHz transceiver transmits RF via two dipole antennas with reverse TNC connectors.

#### Audio Bridging

The **BS410** allows the option for combining 2-wire and 4-wire audio together on A or B channels. When daisy-chaining multiple bases together, users are able to bridge a 4-wire, allowing the use of 4-wire out to send the audio to a mixer, matrix or other audio source.

#### Clear Audio

The **DX410** system features 7KHz wide band audio. The high quality audio expands audio range and increases intelligibility in high RF environments so even soft whispers can be heard clearly.

#### 2-Wire Auto-Nulling

Auto-nulling provides echo cancellation on unbalanced 2-wire intercom systems for fast and accurate integration with RTS and Clear-Com wired party line systems.



*WH410 All-in-One headset and BP410 belt pack*



*NEW WH-410  
"All-in-One" headset  
(Also WH220 and WH301)*



*BP410 belt pack top*



*BP410 belt pack bottom*



*NEW AC-50 rapid  
charger for new BAT50  
Li-ion batteries*



*BS410 base station front*

*BS410 base station rear*

**2 YEAR  
WARRANTY**

#### Operation

Single-channel operation allows any 4 belt pack and/or all-in-one headset users to engage in hot mic, full-duplex communication. In dual-channel operation, three users may be in duplex hands free talk mode with up to 12 additional users in listen-only mode.

#### Durability

Both the new "All-in-one" headset and belt pack models have rugged, reinforced casings and long-lasting keypads with no mechanical switch. The "All-in-one" headset models have lightweight, balanced design and wire-free steel headband for all-day comfort. The belt pack models have an over-mold belt pack case with belt clip.

#### Battery Life and Charging

Using the new smaller BAT50 Li-Ion battery, all new headset and belt pack models have up to 12 hours of battery life. The AC-50 charges up to 4 BAT50 batteries at a time and includes storage slots for 4 additional batteries. Charging time is 2.5 hours.



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# WIRELESS INTERCOM: Crystal Clear Headset Intercom System

**Critical job communication is now more portable and affordable with HME's DX-series spread spectrum digital wireless headset intercoms!**

Get crystal-clear digital voice "conversation"--all built into a super compact design for easy setup and operation. *Since this duplex "hot mic" technology allows simultaneous talking and listening among users, the term "conversation" is used instead of transmission to distinguish this from two-way radios.*

## DX300

The DX300 package was developed for football coaching. It is flexible, expandable and economical. In two-channel mode, the user selects which channel he or she talks on. There are two headset ports on the compact table top base station which has an "AA" battery backup compartment. The DX300 system allows 3 simultaneous wireless talkers per base in dual channel mode (or 4 talkers in single channel mode) with up to 15 users (listeners). By simply adding an EB300 base expander module or daisy-chaining two or three MB300 base stations with a simple modular connector cable, you can double or triple the number of talkers or users or increase areas of coverage. Interface with external 4-wire systems are possible.

BP300 belt packs with choice of headset or new WH301 (or legacy WH300) wireless "all-in-one" headsets may be used. Each BP300 and WH300 come with 1 BAT41 battery pack. WH301 comes with 2 BAT50 batteries.



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## DX300ES

The DX300ES is our tactical wireless headset intercom since it adds contact closure relays allowing connection of a portable or mobile two-way radio. *This is the only difference from the standard DX300.* The function allows a team locally to converse privately and monitor two-way radio dispatch traffic plus the ability to use the "all" button on the belt pac or all-in-one headset to "push-to-transmit" message over the 2-way radio network. If multiple base stations are connected, users on one base or multiple bases can use the PTT function.

## EB300

The EB300 extender base station easily expands a DX300 or DX300ES system by allowing additional "hot mic" users beyond limit on a single base station. An additional 4 BP300 or WH301 (or WH300) talkers at the same time in single channel mode (or 4 additional talkers in dual channel mode). MB300 with EB300 would allow up to 8 users to talk at once. EB300 is a discount to purchasing a second MB300 base station.

- Fast, easy set-up
- Superior sound quality
- Hands-free operation
- Link base stations to add talkers and users
- No frequency coordination
- 2.4 GHz license free ISM band
- Secure encrypted conversation
- Triple diversity--space, time and frequency
- Rugged ergonomic design
- Small, lightweight energy efficient portable units
- Up to 20 hour Li-Ion battery use life per charge
- Wide variety of headset choices including "all-in-one" headset
- Expandable and interface-capable base models
- Four talkers per base in single channel mode, three talkers per base in dual channel mode



WH301 NEW All-in-One Headset

The EB300 extender base station

## Perfect for many critical applications:

- SWAT/SRT/bomb/hostage negotiation
- Nuclear outage coordination
- Film and video crews
- Industrial production/maintenance
- Wireless for command vehicles
- Flight line
- Theatrical production
- Test facilities

- Emergency preparedness centers
- Pump/straying operations
- Corrugated machinery line
- Protective clothing communication
- Training & Plant tours
- Crane rigging
- Houses of worship
- Fire ground training
- Police training



**PICTURED:** DX300 system including MB300 base station, WH300 base station, WH300 "all-in one" headset, BP300 belt packs, and several headset options. The MB300ES base station interfaces with two-way radios.





## Tactical Wireless Systems continued

The compact **DX100** wireless headset system supports up to 4 simultaneous headset talkers and up to 15 listening users, like all our base station systems.

With simplicity and economy in mind this model DX base has no connections for expansion or interface. This system is perfect for applications where there is no expansion in the number of "talkers" or interfacing with other systems is anticipated. The **DX100** wireless headset intercom system features a compact economical base station which is sealed for dust and moisture. Powered by 120 V AC or 12 VDC, but also has 6 "AA" batteries for backup power. Supports up to 15 users and 4 "talkers" using any combination of **BP200** belt packs with headset choice, and/or new **WH220** (or legacy **WH200**) wireless "all-in-one" headsets. Two **BAT41** li-ion battery packs are included with **BP200** and **WH200**. Two **BAT50** batteries come with **WH220**.



The **DX200** 19-inch rack mount base system offers the most expansion and interface options.

Capable of interface with 4-wire matrix intercoms, 2-wire intercoms, telephone interfaces, or connection of multiple base stations, the **DX200** is a flexible system for many applications. Each **DX200** base station supports up to 15 users, using any combination of **BP200** belt packs and choice of headset, as well as, new **WH220** (or legacy **WH200**) wireless "all-in-one" headsets. Wired intercom ports support Bosch Telex RTS, ClearCom, and other brands of two-wire and 4-wire matrix intercoms. Interface system to telephone with additional components. Increase number of talkers or expand coverage area by linking multiple base stations together.

### DX210

**DX210's** base station has the same footprint and features as **DX200** base but adding dual (two) channel operation when used with **BP210** belt packs with headset or **WH210** wireless "all-in-one" headsets. **BP200** belt packs with headset and new **WH220** (or legacy **WH200**) wireless "all-in-one" headsets may be mixed and matched with **BP210** and legacy **WH210**. The **DX210** supports two separate two-wire and four-wire matrix channel interfaces. Like **DX300**, **DX210** supports 4 talkers in single channel and 3 talkers in dual channel modes.



### System Specifications

RF frequency range: All band 2400-2383.5 MHz, low band 2401.9-2439.9 MHz, high band 2443.4-2481.4 MHz  
 Frequency response: 200 Hz-3.5 kHz  
 Distortion: <2%  
 RF sensitivity: -90 dBm with 10-3 BER  
 Temperature range: -4 to 131°F (-20 to 55°C) Typ.  
 Transmit/Receive type: Frequency-hopping spread spectrum  
 <2%, -90dBm with 10-3 BER  
 -4 to 131°F (-20 to 55°C) Typ.  
 spectrum (FHSS)  
 Modulation type: Gaussian filtered FSK, TDMA  
 Encryption: 64-bit RoHS compliant

### Subscriber Specifications

Transmit power: 100 mW burst  
 Antenna: Internal  
 Mic input: Electret (except **WH200**/210/300)  
 Headset connector: Mini-DIN (except **WH200**/210/300)  
 Headset output: 160 mW into 32 ohms  
 Power requirements: **BAT41** battery, 50-60 Mz or 12-14 VDC, or 6 AA batteries  
 Battery life: Hands-free Up to 14 hrs, PTT up to 20 hrs. with **BAT41**  
 FCC acceptance: Part 15 (no license required)

### Base Station Specifications

Transmit power: 100 mW burst  
 TX & RX antenna: dipole  
 Mic input: Electret (not applicable on **DX100**)  
 Headset connector: Mini-DIN (**DX200**, **DX300**/ES)  
 Power requirements: 100 mW burst 1/2-wave, dual diversity  
 100- 240 VAC, 50-60 Mhz or 12-14 VDC on all models, plus 6AA (**DX100** and **DX300**/ES)  
 FCC acceptance: Part 15 (no license required)



CH-21



CH-13



CH-11



KLSA



T-20



TM



CH-16



**BP200, BP210, BP300**  
wireless belt pack. Uses **BAT41** battery



**WH200, WH210, WH300**  
All-in-One Headsets. Uses **BAT41** battery. End of life. Limited to stock on hand.



**WH220, WH301, WH410**  
NEW All-in-One Headsets. Uses **BAT50** battery.



**AC50**  
NEW **AC50** 4-slot rapid charger for NEW **BAT50** batteries.



HS16



HS15



HS15SD



**ANT-874**  
Optional Trident multi-polarized antenna for non-line of sight



**MD-XLR**  
Pigtail adapter for Dynamic mic intercom headsets with XLR4 male or female connector (specify).



**Headset Extension Cable**  
(7 foot)



**Antenna Splitter**



**AC40A**  
4-slot battery rapid charger



**BAT41**  
Rechargeable Lithium-ion battery pack



**Belt Pack Pouch**  
Included with each **BP200** and **BP300** Belt Pack



**Travel Case**  
For **DX300**/ES



**Cell phone 2.5 mm headset interface adapter**



## PRODUCTS & SERVICES

### CUSTOM HEADSETS & CABLES

Known for custom assembled headsets for connection to just about any communication device and system, including intercoms, radios, and telephones. Quick turnaround value solutions that most headset vendors don't offer.

### TWO-WAY RADIO

Besides two-way radio sales, programming, installation and service, we also provide FCC licensing consultation, complete system integration, dispatch, and 911 consoles. IP radio solutions as well as digital radio systems. Specialize in wireless communication for high noise areas or where protective clothing is required in work area or where hearing commands is critical.

### DAS/BDA Distributed Antenna Systems/Bi-Directional Amplifiers

System integrators for in-building wireless installation and partner with end users, carriers, system manufacturers, and contractors. Turn key project approach from concept through closing. Project management methodology, create a detailed design with drawings followed by a quality installation with strict adherence to industry standards.

### MOBILE DATA

Total mobile solutions integrator (hardware, software, connectivity) providing a wide variety of products and services to the mobile workforce. Focus is to design solutions to suit customer's specific application and situation. Tablets, mounting devices, laptops with software solutions, including custom applications developed for your needs. In addition, private networks, VPN and installation services for a complete turnkey project experience.

### RF SOLUTIONS

Integrated turnkey implementation including FCC licensing, tower location, system design, construction, and system installation. Microwave point-to-point and telemetry radio solutions.

### VIDEO SURVEILLANCE

IP and conventional video surveillance solutions.

### TOWER SERVICES

Tower maintenance that includes antennas, radio heads, TTA, RET cables, lights, and cable replacement. PIM, sweep, and other testing. Small cell integration and installation.

### ACCESS CONTROL

Access control systems for a wide variety of facilities, both single site and multiple sites, with single badge access or key fob products.

### TELEPHONY

IP and SIP phone systems and WiFi (including LTE) solutions, integrated voice mail and smart phone integration.

### SOFTWARE PTT

Applications for Windows, Mac, IOS, and Android, as well as private servers for secure communications.

### OPEN BTS

Consultation, integration and deployment of "Open BTS" --this technology has uses as an alternative to cellular. Public safety emergency management will be keen to use this for mobile data, especially during cell outages. *Open BTS is Unix application that uses a software radio to present a GSM Um interface to handsets and uses a SIP soft switch or PBX to connect calls. The combination of global-standard GSM air interface with low-cost VoIP backhaul provides a new type of cellular network that can be deployed and operated at a much lower cost than existing technologies for rural cellular deployments and private cellular networks.*

### PRODUCT WARRANTIES

Each product line represented by ComtronICS | Cobalt AV offers different warranties. We stand by the manufacturer's warranty plus may offer various other types of service plans. We stand 100% behind our products and services through normal and expected usage.

## THE COMTRONICS STORY

Since 1980, ComtronICS Inc (aka Comtronics Industrial Communication Systems), based in Lexington KY, has developed a solid reputation for innovative system design and as a reliable supplier of headsets, radios, and wireless technologies.

Expertise spans several vertical markets, including nuclear, public safety, energy, and paper products manufacturing. Customers include many Fortune 500 companies.

ComtronICS is an authorized Motorola 2-Way Radio dealer since 1993. Two times, achieved the select MotoStar excellence rating and recognized as Platinum Channel Partner. Also carry Vertex Standard and other land mobile radio product lines. Economical tower service available for the Lexington area.

Since 2003, Cobalt Audio Video, our popular radio accessories division, has provided the widest selection of value-priced, quality-built headsets and audio accessories found anywhere. Signature Cobalt AV blue colored muff headsets have become an industry favorite.

Our warehouse location is within 1-2 ground shipping days of much of central and eastern United States. Quick turnaround to Canadian customers.



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WIRELESS COMMUNICATION EXPERTS

LEXINGTON CORPORATE  
2350 FORTUNE DRIVE  
LEXINGTON KY 40509

[cobaltav.com](http://cobaltav.com) | 1.800.264.6021