

**Industrial &
Construction
Applications**



Use when wearing a respirator.



Use when on a construction site.



Use when at a fire scene.

Numerous Industrial Applications

ClearCommand® HCS

[**Helmet Communication System**]

The ClearCommand Helmet Communication System (HCS) from MSA is a state-of-the-art radio interface device which significantly improves the user's ability to receive and send messages even in loud ambient-noise environments. It goes wherever you go. The system consists of a helmet-mounted microphone and ear speaker assembly that weighs 5.3 ounces and easily snaps onto the user's industrial-style helmet or fire helmet ratchet suspension. The helmet mic /ear

speaker assembly connects to a lapel microphone or optional basic PTT (push-to-talk) unit. The lapel microphone and PTT are permanently fitted with a connector for attachment to the specific radio of choice. For fire service applications the ClearCommand HCS also offers a plug-in truck communication adapter that can be used by firefighters, along with their helmet microphone assembly, on the way to a fire scene or other incident. Once the firefighter arrives at the scene,

the truck system cable is unplugged from the helmet microphone, and the helmet microphone cable end is connected to the user's lapel mic or PTT. **The user of the Helmet Communication System has uninterrupted clear communication always while wearing the HCS System. It can be used very effectively while wearing all types of respirators including full-face respirators.**



ClearCommand HCS

Features & Benefits

- Incorporates a “noise-reducing” bone-conduction voice transmitter that virtually eliminates high ambient noise levels.
- Custom user-positioned ear speaker brings all incoming communication directly to the user’s ear. No need to lift your lapel mic up to your ear to hear transmission.
- Easily snaps onto the ratchet suspension of industrial-style helmets or fire helmets (Wildland). The unit can be easily transferred to other user’s helmets, and no tools are required for removal or installation.
- Can be used over the top of facepiece head harnesses, hoods and liners without losing the quality of the transmission.
- The bone-conduction microphone is made with soft silicone material, which makes it comfortable to wear, with no pressure points.
- The microphone assembly can be reversed on the helmet suspension to position the ear speaker over either ear.
- The helmet mic system, when used with the lapel mic or PTT, is powered by the battery from the radio. No need to replace or re-charge dry cells.
- Special connectors suitable for most common radios are available for the lapel microphone and PTT, which allows users to adapt the system to their existing radios.
- When used with an MSA CairnsHelmets fire helmet, the MSA HCS is certified as compliant with NFPA 1971-2000 edition standard.
- Intrinsic safety certifications allow the use of the ClearCommand HCS in hazardous environments.
- The Basic PTT unit is designed for use under hazardous material suits. The large button makes it easy for the user to depress and communicate.
- The helmet mic incorporates a cable keeper providing cable storage when not connected to the lapel mic or PTT.
- Optional remote finger PTT is available as an accessory.

Helmet Mic with Lapel Mic



Helmet Mic with Basic PTT



Easy Installation over the Helmet Suspension



Wildland® Firefighting Helmet with ClearCommand HCS



	Helmet Mic	Lapel Mic	Basic PTT	Truck System
Weight	5.35 oz.	10.8 oz. with cable and HT1000 connector	7.6 oz. with cable and HT1000 connector	12 oz. with cable
Size (Housing)	7" x 6" x 1.9"	4.5" x 2.7" x 1.5"	3.1" x 2.3" x 2.3"	3.2" x 2.7" x 1.2"
Color	Black	Black	Black	Black
Operating Temp. Range	-24° to 175°F	-24° to 175°F	-24° to 175°F	-24° to 175°F
Speaker Impedance	30 mm 16 Ohms	50 mm 16 Ohms	None	None
Microphone Impedance	Bone Conduction 5200 Ohms @1 kHz	Electret 1.6 @1kHz	None	None
Power Supply	Radio	Radio	Radio	2 AAA Alkaline Batteries
Low Battery Indication	None	None	None	LED Light
Connector	3.5 mm Male Stereo on Cable	3.5 mm Female Stereo Receptacle	3.5 mm Female Stereo Receptacle	3.5 mm Female Stereo Receptacle
Materials	Glass Filled Nylon, Silicone	Glass Filled Nylon, Santoprene	Glass Filled Nylon, Santoprene	Glass Filled Nylon
Current Drain	0.1 mA from Radio	0.3 mA from Radio	0.3 mA from Radio	3.2 mA from Batteries, 350 hrs. battery life w/ HCS connected
Approvals	UL 913, C22.2, Z89.1, NFPA 1971-2000	UL 913, C22.2	UL 913, C22.2	None



Helmet Microphone as would be worn under a helmet. (From rear and side)

Ordering Information

Helmet Microphone Assembly (includes Custom Fitted Flannel Headband Liner)

Part Number

10042902

Lapel Mic Kits for Radio Interface

Maxon SP120, SP130, SP140	10042908
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10042909
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10042903
Motorola Astro and Saber	10042904
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10042905
Motorola STX, MX800, MX840	10042920
GE Ericsson PCS, PC2005	10042906
GE Ericsson MRK, LPE-200, Prism, PX 126T	10042907

If your specific radio is not listed above, please contact MSA Customer Service at 1-877-MSA-FIRE

Basic PTT Kits for Radio Interface

Maxon SP120, SP130, SP140	10045667
Motorola HT600, MT1000, MTX820, MTX900, Radius P200 & P500	10045668
Motorola HT1000, JEDI, MT2000, MTS2000, MTX838, MT839, MTX8000, MTX9000	10045662
Motorola Astro and Saber	10045663
Motorola Radius GP300, P110, SP50, LTS2000, Spirit-III, GTX, SP21	10045664
Motorola STX, MX800, MX840	10045669
GE Ericsson PCS, PC2005	10045665
GE Ericsson MRK, LPE-200, Prism, PX 126T	10045666

If your specific radio is not listed above, please contact MSA Customer Service 1-877-MSA-FIRE

Truck System

	Part Number
Nexus Adapter, D. Clark	10045732
Switchcraft Adapter, D. Clark	10045731

Parts and Accessories:

Dust Cover for Lapel Mic or PTT Plug	10046087
Tall Guard for Lapel Mic PTT	10046123
Short Guard for Lapel Mic PTT	10046122
Belt Clip Assy, Standard	10046089
Belt Clip Assy, Clothes Pin Type	10046120
O-Ring, Single Pin Connector	10046121
Flannel Headband Liner	10045778
Remote Finger PTT	10046574
Instructions	10046197

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



Corporate Headquarters
P.O. Box 426, Pittsburgh, PA 15230 USA
Phone 412-967-3000
www.MSAFire.com

U.S. Customer Service Center
Phone 1-877-MSA-FIRE
Fax 1-800-967-0398

MSA Canada
Phone 1-800-MSA-2222
Fax 905-238-4151

MSA Mexico
Phone 52-55 21 22 5770
Fax 52-55 359 4330

MSA International
Phone 412-967-3354
Fax 412-967-3451

Offices and representatives worldwide
For further information:

