



*Use on the way to the fire scene*



*Use on the fireground.*



*Use when entering a structure.*

## Clear Command® HCS

### [ Helmet Communication System ]

The Clear Command 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 fire helmet (or industrial-style helmet's) 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. The Clear Command 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 communication from the time the alarm sounds until the incident is over.**



## Clear Command 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 fire helmets or industrial-style 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 Clear Command 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 Clear Command HCS



|                               | Helmet Mic                           | Lapel Mic                                | Basic PTT                               | Truck System  |
|-------------------------------|--------------------------------------|--|---|---|
| <b>Weight</b>                 | 5.35 oz.                             | 10.8 oz. with cable and HT1000 connector | 7.6 oz. with cable and HT1000 connector | 12 oz. with cable   |
| <b>Size (Housing)</b>         | 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"  |
| <b>Color</b>                  | Black                                | Black                                    | Black                                   | Black   |
| <b>Operating Temp. Range</b>  | -24° to 175°F                        | -24° to 175°F                            | -24° to 175°F                           | -24° to 175°F   |
| <b>Speaker Impedance</b>      | 30 mm 16 Ohms                        | 50 mm 16 Ohms                            | None                                    | None  |
| <b>Microphone Impedance</b>   | Bone Conduction<br>5200 Ohms @1 kHz  | Electret 1.6 @1kHz                       | None                                    | None  |
| <b>Power Supply</b>           | Radio                                | Radio                                    | Radio                                   | 2 AAA Alkaline Batteries                                      |
| <b>Low Battery Indication</b> | None                                 | None                                     | None                                    | LED Light   |
| <b>Connector</b>              | 3.5 mm Male Stereo on Cable          | 3.5 mm Female Stereo Recepticle          | 3.5 mm Female Stereo Recepticle         | 3.5 mm Female Stereo Recepticle                               |
| <b>Materials</b>              | Glass Filled Nylon, Silicone         | Glass Filled Nylon, Santoprene           | Glass Filled Nylon, Santoprene          | Glass Filled Nylon  |
| <b>Current Drain</b>          | 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 |
| <b>Approvals</b>              | 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  | 10042912 |
| 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**

|                              | <b>Part Number</b> |
|------------------------------|--------------------|
| Nexus Adapter, D. Clarke     | 10045732           |
| Phonejack Adapter, D. Clarke | 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                    | Available July '03 |
| 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.



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