



ECHO

Firefighter Helmet with Built-in Communications (FFHBC)

The Cromwell Echo is a unique helmet system for firefighters with an integral, cordless radio allowing multi-way communications between Controllers, Team Leaders and individual members of firefighting teams. The system can be used in any application, but was primarily designed to overcome the communication problems associated with traditional radio systems when operating in confined spaces or in high ambient noise conditions. The proven system significantly enhances frontline capability by enabling users to transmit and receive information or commands loudly and clearly without distortion, however remote or difficult the location.



KEY FEATURES

- Intrinsically safe
- Unrivalled communications capability
- Time out facility to prevent channel jamming
- Communicate with up to 16 firefighting teams with a single system
- Suitable for use in confined spaces and high ambient noise conditions
- Exceptionally high standards of comfort and protection
- Lightweight adjustable single size helmet, simple ratchet adjustment fits all head sizes from 53cm to 61cm
- Bone conductive microphone, enclosed in a unique noise isolation mounting for enhanced performance in high ambient noise conditions, giving excellent speech quality
- Push to talk (PTT) switch, easily accessed and operated with gloved hand
- Team leader can transmit to and override both Controller and Firefighter Communications by pre-setting the Team Leader/Firefighter switch
- Compatible with most BA systems and anti-flash hoods
- Generously padded interior for optimum comfort
- Optional helmet mounted torch and torch bracket
- Unique rechargeable cordless radio communications system built into rear of helmet
- Hand-held radio powered by rechargeable battery
- Audible low battery warning
- Helmet & hand-held batteries rechargeable on fast charge in under 4 hours
- Optional fist microphone & shoulder/waist holster

Contact Us

Part of Gentex Corporation's comprehensive portfolio of helmet systems for emergency responders, Cromwell helmet systems provide firefighters, and law enforcement and rescue personnel the protection they need to respond to any situation with confidence. For more information on the Cromwell Echo Firefighter Helmet with Built-in Communications, please contact us or one of our authorized distributors by visiting www.gentexcorp.com. Like us at facebook.com/Gentexcorp or follow us on Twitter @Gentex_Corp.



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SPECIFICATIONS

Transmitters

DUPLEX WITH PTT AND OVERRIDE

Frequency Range: 395MHz to 450MHz

Estimated Radiated Power: 0.35W

Channel Spacing: 12.5kHz

Channels: 16

Modulation Deviation: ± 2.5 kHz

Receivers

DUPLEX WITH OVERRIDE

Audio Response: 300Hz to 2.7kHz

Helmet Audio Output: 75mW

HHR Audio Output: 350mW

Battery Life

***Dependent on TX:RX Ratio:** 4 Hours nominal *

Weight

Helmet Radio System: 1.7kg

Hand Held Radio: 1.2kg

Helmet

CE Market to EN443:1997 with the additional options: Wet Helmet and Surface Insulation Test and Thermal Minus Conditioning at -20°C

General

Environmental Rating: BS EN 60529:2001 IP54

Operational Temperature: -10°C to +40°C

Externally Generated Vibration: BS EN 60068-2-6

Shock: BS 2011:Part.1Ea

Helmet Microphone Type: Bone Conducting

Intrinsically Safe: (IS) approved TUV-A-10ATEX0001X Ex ib IIC T4

Chargers

6 Way Helmet / 5 Way Helmet & 1 Way HHR / 1 Way HHR Input:

110-240 Volts a.c.

50/60Hz/250VA max

Fast Charge Output: 10 Volts/0.64 Amp

Constant Current Nominal

Trickle Charge Output: 10 Volts/80mA

Charge Temperature: -10°C to +45°C

Double insulated

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