

Guardian
Safety Systems

Innovative Communications

Solutions for Workers in Hazardous Situations



INNOTECH
Innovative Technology

Consumer Products - Made for the Job

Effective radio communications provides workers in hazardous situations with an increased level of confidence, especially when undertaking the most demanding tasks.

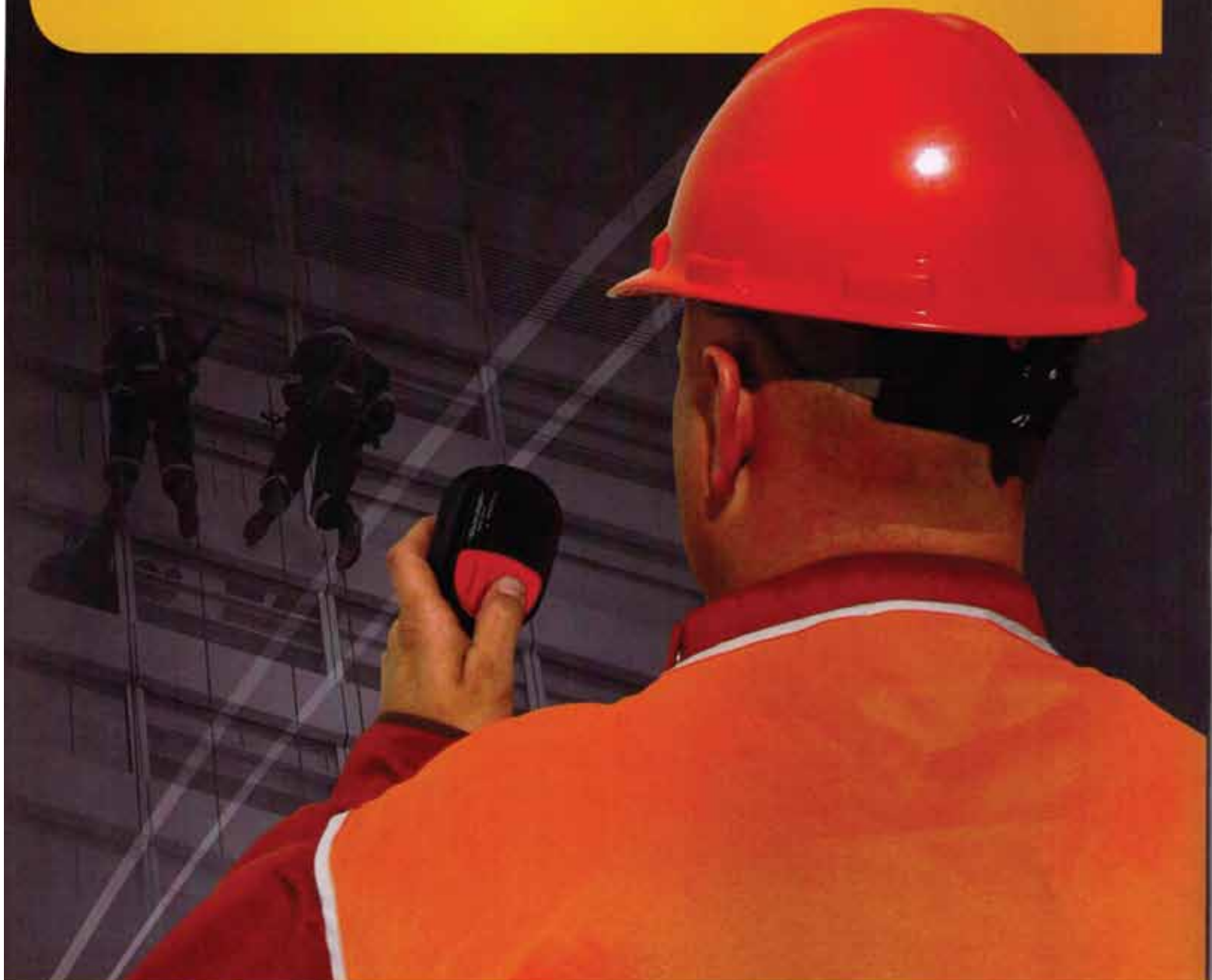
Two career fire fighters, frustrated by the lack of suitable communications, approached Innotech (Guardian Safety Systems parent company) with a proposal to design and develop a communication system to improve safety for themselves and their colleagues.

The result is the breakthrough Guardian BA and Helmet Accessories which connect to a portable two way radio via the Guardian Speaker Microphone. This combination provides clear and reliable communications in high noise, dangerous environments.

The Guardian Comms System utilises Innotech's patented bone conduction technology (harnessing voice vibrations through the skull) to send and receive communications. This effectively isolates ambient noise, reducing missed messages and improving transmissions resulting in increased safety and operational efficiency.

The Guardian Comms System allows received messages to still be heard even when hearing protection is worn, making it ideal for noisy environments.

Guardian Comms Systems was designed and built initially to meet the harsh realities of Fire Fighting. However, it is finding an increasing application where robust communication equipment is a vital part of everyday working requirements.



Guardian Speaker Microphone

The dual purpose Guardian Speaker Microphone is the core component of the Guardian Comms System product and interfaces with many different brands and models of two way portable radios.

The robust Speaker Microphone has been designed understanding the difficulties of communicating in high noise, dangerous environments. It is also suitable for everyday tasks.

A very large Press to Talk (PTT) button is mounted on the front of the Guardian Speaker Microphone and can be pressed whilst wearing gloves or through the thick membrane of a protective suit. The large easy to find PTT button can also be actuated by the users forearm or wrist while not letting go of tools or equipment, giving the user hands free communications.

The Guardian Speaker Microphone has a strong and versatile pocket clip, which can be rotated 360° enabling attachment to all forms of clothing and equipment straps unlike other speaker microphones with ineffective clips that are easily dislodged.

The Guardian Speaker Microphone is powered from the host portable radio and requires NO BATTERIES which increases reliability. Internal circuitry combined with a noise cancelling microphone greatly reduces ambient noise during transmission.

A Guardian accessory can be easily connected to the Guardian Speaker Microphone even with gloved hands or in poor visibility. Connecting an accessory will automatically transfer the transmit and receive audio circuitry from The Speaker Microphone to the Accessory. The Speaker Microphone then acts as the PTT control.

Unplugging the accessory automatically restores the Speaker Microphone to normal operation meaning the user is never without reliable communications.



Ordering Information and Model Numbers on the Back Page

Speaker Microphone Key Advantages

- > Dual purpose: Normal Speaker Microphone or PTT with Accessories
- > Large easy to find PTT button which can be actuated with gloves or through protective suit.
- > Heavy duty pocket clip for secure deployment
- > Quick release, protected accessory connector for reliability
- > No batteries: For greater reliability



Speaker Microphone Ordering Details



FC001
Speaker Microphone
with Jedi Connector to
suit Motorola Radios



FC003
Speaker Microphone
with Warris Connector
to suit Motorola Radios



FC005
Speaker Microphone
with Connector to suit
Tait Orca Radio



FC007
Speaker Microphone
with Mini Warris
Connector to suit
Motorola, Simoco and
other Radios



FC009
Speaker Microphone
with Connector to suit
Simoco SRP9100 Radio



FC011
Speaker Microphone
with Connector to suit
Tait TP9100 Series
Radios



FC013
Speaker Microphone
with connector to suit
Tait TP8100 Series
Radios



Patent Information:
Internationally Registered Design and
Design Patents Awarded and Pending

Accessory Ordering Details



FC101
Helmet Accessory for use with Guardian
Speaker Microphone. Attaches to the ratchet
housing of a helmet.

FC102
Variant for Jet Style Helmets



FC202
BA Accessory for use with Guardian Speaker
Microphone. Attaches directly to Breathing
Apparatus Mask straps.



FC300 Series
Rescue Helmet Accessory for use with
Guardian Speaker Microphone. Models
available to attach to a wide range of Rescue
and Light Weight Helmets.

Additional Specifications

FM Class	3610 & 3611 when used with speaker microphone
Ingress Protection	IP 65
EMC	CTick, CISPR 13

International Patents Awarded and Pending. International Registered Designs and Design Patents Awarded and Pending

Additional Specifications

FM Class	3610 & 3611 when used with speaker microphone
Ingress Protection	IP 66
EMC	CTick, CISPR 13

International Patents Awarded and Pending. International Registered Designs and Design Patents Awarded and Pending

Additional Specifications

FM Class	3610 & 3611 when used with speaker microphone
Ingress Protection	IP 66
EMC	CTick, CISPR 13

Contact Information

SYSTAG - Systems Technology for Air & Gas
36-38 Stanley Street
Capalaba Qld 4157
Ph: 07 3245 2098 Fx: 07 3245 2302
www.systag.com.au