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GS-MPI005HD
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Broadcasters' Mobile Phones

A Range Of 2G and 3G (UMTS) Phones For Broadcast

The Glensound Broadcasters' Mobile Phones allows integration of 3.5kHz 2G and 7kHz 3G (UMTS) telephone calls into the broadcast chain. Three portable units and five subrack units elevate the mobile phone into a broadcast specification product for outside reporting, comms, or backup.

Key Points

- Glensound HD Voice offers 7kHz audio bandwidth (HD Voice units) on 3G (UMTS)
- Quad band GSM phone
- Complete RF shielding of all audio circuits to prevent interference in signal path
- XLR mic input with finely calibrated compressor / limiter circuit to avoid input clipping. (HD Voice units feature compressor indicator)

- 6.35mm headphone connection
- Individual send and return connections on XLR with independent level controls. Gives 100% separation of send and return circuits
- Tri-colour signal strength LED (HD Voice Units)
 - Portable units operate on 4 x AA batteries, or via external plug top power supply

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Online

http://www.glensound.co.uk

Contact

Glensound Electronics Ltd 6 Brooks Place Maidstone Kent England ME14 1HE

Tel: +44 (0) 1622 753 662 Fax: +44 (0) 1622 762 330

sales@glensound.co.uk

Glensound HD Voice

Introduction to HD features

Glensound HD Voice Features



50Hz - 7kHz Bandwidth



Glensound HD Voice - 7kHz Audio Bandwidth

Glensound HD Voice is available on many networks offering 3G(UMTS). Connecting two Glensound HD Voice broadcasters mobile phones across a 3G (UMTS) network gives 7kHz of audio bandwidth.

Features AMR-WB (Adaptive Multi Rate Wide Band)

Also known as G.722.2. This is the algorithm more commonly known as HD Voice; it offers significant advantages for broadcasters.

- Doubles voice bandwidth (50-7000Hz) (current 2g narrow band speech codec 300-3400Hz.)
- 12.65 kbit/s or higher coding bit-rates provide high quality wideband audio.
- HD Voice wideband codec produces superior results than the best narrow band codec (12.2 kbit/s).

Glensound HD Voice Connects As A 3G (UMTS) Voice Call

The GS-MPI004HD connects as a 3G (UMTS) voice call, not a data call.

- Bandwidth is consistent once connected. On data connections, bandwidth varies during a connection, on a HD Voice call it does not, so once you are connected your call quality will remain consistent.
- No extra call charges. As the network sees the connection as a voice call, there are no extra charges and no data usage as part of the data package.

• Configurable To Operate On 2G Or 3G (UMTS)

Calls can be locked to 2G or 3G (UMTS) only with any calls made on the 3G (UMTS) network automatically dropping down to 2G when moving outside a 3G (UMTS) area if required. The GS-MPI004HD also operates as a standard 2G mobile phone. Even so, improvements in call quality can be heard when operating on the 2G network due to advances in performance and noise reduction capabilities found on the Glensound HD Voice systems.

Accommodates A Broader Range Of Audio Frequencies

Glensound HD Voice can accommodate a wider range of audio frequencies thus improving the overall call quality. This will aid ultimate clarity in noisy environments due to reduced background noise.

• Networks Available

HD Voice is network dependent. There are currently over 31 countries offering the HD Voice service, with additional countries being added regularly. Please look at the Glensound website for the latest information.

• **Cost Effective Upgrade** Glensound HD Voice is one of the most cost effective upgrades that can be made to improve audio quality.

GS-MPI Broadcasters Mobile Phones

2G features on all models



Quad Band

The GS-MPIs contain a quad band mobile phone that will allow the unit to be used in most places of the world where standard GSM networks are available. If your own mobile phone works, the GS-MPIs will work too. The SIM card fits into a front panel slot and is recessed to avoid accidental removal during operation.

Broadcast Headphone Connection

There is a 6.35mm headphone socket for connecting a pair of headphones or a headset. The units are optimised for an impedance from 200 - 2000 ohms. As the MPIs will often be used in noisy environments, a high output level is available using a variety of broadcast headphones and headsets.

Independent Send & Return Audio Connections

GSM telephone balancing is offered with separate XLR audio connections for the send and return signal. The GS-MPIs offer 100% separation between the send and return paths. The send connection is on a balanced XLR (switchable with a mic input on the GS-MPI004). The return is on a balanced XLR and contains the return audio (caller) only. There is also an independent level control for the send and return audio.

RF Shielding Of Audio Circuits

A carefully designed RF shield isolates the audio circuits from all radio frequency interference. The GS-MPIs own RF does not interfere with its own audio circuits ensuring that typical GSM RF interference is never heard.

- Auto Answer
 There is a configurable auto-answer, from 'off' to 9 rings.
- Memory Dialing There are 10 memories for instant memory dialling of popular numbers.
- Simple LED Status Indication A red and green LED indicate network and call status.

SMA Aerial Connection

A standard SMA aerial connection is provided for the attached right angle antenna (GS-MPI004) or a separate extension aerial (all rack units).

300Hz - 3.4kHz **Bandwidth**

2G Features On All Models

The GS-MPI 2G

Range

Glensound GS-MPI The original 2G GS-MPI Broadcasters' Mobile Phones

The GS-MPI 2G range have been specifically designed for the needs of a modern broadcaster. They are quad band GSM mobiles with broadcast specification input and output interfaces with full RF shielding of all audio circuits to ensure interference free audio. The digital nature of the system provides complete separation of the send and return circuits that each have a dedicated audio connection.

GS-MPI004

Portable Broadcasters' Mobile Phone - 2G



GS-MPI005

Rack Mount Broadcasters' GSM Phone - 2G



GS-MPI006

Rack Mount Broadcasters' GSM Phone With ISDN - 2G



GS-MPIFW

Rack Mount Broadcasters' GSM Phone With Twin Four Wire - 2G





Glensound GS-MPI/HD 3G(UMTS) Glensound HD Voice

The GS-MPI 3G (UMTS) Range



Glensound HD Voice offers the broadcaster facilities never before available. In the Glensound Broadcasters' Mobile Phones, Glensound HD Voice adds a significant audio quality increase to 7kHz. Glensound make this new technology available in portable units for low cost remotes and immediate onthe-spot broadcasts from reporters. It is also available in a compact commentary mixer as a sports commentary unit. A studio unit with remote control and aerial extension options complete the line up.

GS-MPI004HD

Portable Glensound HD Voice Mobile Phone



GS-MPI005HD
 Rack Mount Glensound HD Voice Phone



GS-MPI007HD Rack Mount Glensound HD Voice Phone With Display



GS-MPI005HD/REMD & GS-MPI005HD/REMS Hardware and software remotes for rack mount Glensound HD Voice Phones





GS-MPITBU Broadcasters' Mobile Phone with Digital TBU



PORECCE HD Portable Commentary Mixer With Glensound HD Voice Mobile Phone





GS-MPI004 Portable Broadcasters' Mobile Phone





Further images on pages 16 & 17

Broadcast Microphone Connection

There is an XLR socket for connection of dynamic handheld or headset microphones. The GS-MPI004 can therefore be used for interviewing with handheld microphones. The mic input is switchable with the line input.

• Compressor/Limiter

As the GS-MPI004 will often be used for sports reporting where high input levels are common, the mic input contains Glensound's dedicated compressor/limiter circuit that ensures incoming audio is always clear from distortion.

Portable Belt Pack Case

The GS-MPI004 is in a heavy duty belt pack style case. The exposed sides are nylon dipped for maximum resistance to damage. The case overhangs to protect all controls. A belt clip is included and the corners feature holes for shoulder straps or security fixings.

• Powering Options

The GS-MPI004 operates from 4 x AA batteries in a convenient 'snap in' cartridge. Regular batteries are used so that an operator can easily obtain them and be ready to broadcast without having to wait for a unit to charge. High quality batteries give approximately 4 hours of continuous talk time. An optional DC plug top power supply is available.



GS-MPI005

Rack Mount Broadcasters' Mobile Phone







One To Three Mobile Phones In A 1U Subrack Our 11 subrack Breadcasters' Mebile Phone can held be

Our 1U subrack Broadcasters' Mobile Phone can hold between 1 to 3 GSM phone units. The extra phone modules can easily be added at any time. Unit pictured is with 3 phones in 19" rack mount.

Audio Inputs And Outputs

The rear panel accommodates the line input and output along with the SMA aerial connection. Headphone socket is front panel mounted per phone.

Extension T Bar Aerial Included

The rack mount versions of the Broadcasters' Mobile Phone' include a standard SMA aerial connection but with an extension T-Bar aerial on a 3m lead.



• Built In Power Supply

Internal switch mode power supply is rated from 100v - 240v. This will power all three phones if fitted.

Rear of GS-MPI005 with 1 phone module fitted



NB:

The block diagram of the GS-MPI005 is the same as the GS-MPI004 on the previous page, but with a line input only.





GS-MPI006 Broadcasters' Mobile Phone With ISDN

GS-MPI006





•	Contains 2 x C Two separate GS rack mount).		nes are included (19"

Contains 2 x ISDN Codecs A single ISDN S bus connects the ISDN circuits to 2 separate G711/G722 codecs. The G722 algorithm offers the maximum in worldwide compatibility.

• Make And Receive Ordinary Telephone Calls Via ISDN(G711)

The G711 coding is the telephone standard allowing you to dial and receive calls from normal POTS telephone lines.

• Use ISDN Audio Circuits For Dialling And Control Using DTMF

The ISDN circuits are controlled via DTMF either from connected phone handsets or from an external DTMF remote (available separately).

'Talk To You' Function

ISDN status & instructions are given via an online spoken message, making dialling and investigating status simple.

Remote Control Available Via RS232 On Front Panel 9 Pin D-Type



www.glensound.co.uk

GS-MPIFW

Broadcasters' Mobile Phone With Twin Four Wire/IFB

GS-MPIFW





Single Broadcasters' Mobile Phone

A single GS-MPI module with the standard GSM features (19" rack mount).

- **Two x Four Wire/IFB Circuits** Each circuit can be used independently in four wire mode.
- Versatile Four Wire Output Options (Programme, GSM, IFB)
 - 1. An external programme input can be switched onto either four wire output.
 - 2. The incoming audio from the GSM call can be switched onto either four wire output.
 - 3. One circuit's four wire input can be switched to its output.

Interrupted Feed Back

When the talk button is pressed, the talk audio can either replace the selected output or mix over it (IFB).

LEDs & Loop Outputs

Green LEDs give visual indication of return audio and a D-type connector on rear with loops is active when talkback 1 or 2 are selected.

• Two Position Speak Key

The speak keys are in push to talk mode when pushed down or latch when pushed up. There is a front panel mic or connection for external mic.

Front Panel Monitoring

There is a front panel speaker with a 6.35mm headphone socket that mutes the speaker when headphones are connected. Adjustable volume control. Programme, phone and four wire inputs are all mixed here for monitoring.





GS-MPIFW

Broadcasters' Mobile Phone With Twin Four Wire



Glensound Electronics

GS-MPI004HD

Glensound HD Portable Broadcasters' Mobile Phone



Compressor Indicator

To assist with input gain level settings, there is an indicator LED showing if the compressor limiter circuit is active.

3G (UMTS) Signal Indication

There is an indication on the availability of a 3G (UMTS) network. This must be illuminated for a HD Voice call to be available.

Advanced Options

Engineer level options allow configuration of advanced options. The following can be adjusted;

1) Auto switching from 2G to 3G (UMTS), 2) Select 2G or 3G (UMTS) only

3) Turn Echo Canceller ON or OFF, 4) Turn Noise Compressor ON or OFF

5) Turn Peak Compressor On or OFF

All The Features Of The Standard GS-MPI004

All the standard functions of the standard 2G GS-MPI004. This means that if there is no 3G (UMTS) signal available or the network does not offer HD Voice, then it will function as a normal quad band GS-MPI004.

Signal Strength Meter

A single tri-colour LED indicates signal strength - three signal levels, plus no signal available (Not GS-MPI007HD).

Network Availability

HD Voice (AMR-WB) must be available on the phone network for a Glensound HD Voice call to connect. This is available in many countries around the world. Please check <u>www.glensound.co.uk</u> for the latest details.



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GS-MP005HD

HD Rack Mount Broadcasters' Mobile Phone





One - Three HD Voice Phones In A 1U Subrack

The 1U subrack Broadcasters' Mobile Phone can hold between 1 - 3 3G (UMTS) phone units. The extra phone modules can easily be added at any time. Unit pictured is with 2 phones in a 19" rack mount.

Audio Inputs And Outputs

The rear panel accommodates the line input and output along with the SMA aerial connection. Headphone socket is front panel mounted per phone.

• Upgrade to N-Type Aerial

Aerial upgrade modification for HD units can add a N-type connector in place of the SMA connection. This will allow aerial placement up to 50m away.

Extension T Bar Aerial Included The rack mount versions of the Breadcaster

The rack mount versions of the Broadcasters' Mobile Phone include a standard SMA aerial connection with a 2.5m t-bar extension.

Built In Power Supply

Internal switch mode power supply is rated from 100V - 240V. This will power all three phones if fitted.

• **Option for 12V Powering** Upgrade the unit by adding a 12V DC external power input.

• Full Remote Control

Each phone can be controlled remotely using either the GS-MPI005HD/REMD desktop controller or by using the software (see page 16 for full details). This allows the subrack to be installed in the rack room and operated by a user in the studio.

Plus All The Standard HD Voice Features As Mentioned On Page 13





GS-MPI007HD

HD Rack Mount Broadcasters' Mobile Phone with Display



One or Two Mobile Phones in a 1U Subrack

The GS-MPI007HD can hold either 1 or 2 3G (UMTS) phones. If supplied with only 1 phone, a second phone can be user retro-fitted at a later date.

Fully Featured Display

To enable easy identification of called numbers and setup, a back-lit graphical display is included for each phone.

• Signal Strength Meter

The display includes a bargraph showing signal strength.

Audio Level Indication

Two 4 LED PPM's are included for each phone. One PPM indicates the audio level being sent to the phone and the other shows the level being received.

• Full Remote Control

Each phone can be controlled remotely using either the GS-MPI005HD/REMD desktop controller or by using the GS-MPI005HD/REMS software (see page 16 for full details). This allows the subrack to be installed in the rack room and operated by a user in the studio.

• Audio Inputs and Outputs

The rear panel accommodates the line input and output. A headphone socket is provided on the front of the panel for monitoring.

Aerial Connectors

As standard, a SMA aerial connector is fitted for each phone module. This can be changed for an N-Type if required. This will allow aerial placement up to 50m away if required.

Plus All The Standard HD Voice Features As Mentioned On Page 13





Remote Control

Hardware and software remote control options

REMOTES



REMOTE CONTROLS

The GS-MPI005HD and GS-MPI007HD can be remotely controlled by either a hardware or a software remote control. Each mobile phone module is operated by one remote control (either hardware or software) where the user can:

- make and receive phone calls with the facility to log incoming and outgoing calls
- store important numbers
- see call duration
- record missed calls

Full set up of each module can be managed remotely, allowing the subrack to be installed in the rack room while remotely controlling each module via either the hardware or software controls.

GS-MPI005HD/REMD - Hardware Remote

Display

The remote has a display which shows the number that is being dialled and the set up options for the phone.

Data Connection Data between the remo

Data between the remote and the rack is on normal CAT5 cable with RJ45 connectors, using RS422.

• Power Supply

Power for the unit is available on the RJ45 connector supplied by the rack. Alternatively, a local 5V DC input is available to power the unit, this input is via an USB connector.

GS-MPI005HD/REMS - Software Remote

Display

One application is required per module allowing calls to made and received. Software is for Windows machines.

- Number of the sim card.
- 2G or 3G indicator (depending on configuration).
- Signal strength.
- Fully configurable by ticking the desired settings.
- Up to 100 number call history
- Up 600 contact phone book

Data Connection

Data between the remote and each module is via a standard USB or RS422 (using either a RS232 to RS244 converter or a USB to RS422 converter) connected between the rear of the module and the computer.









GS-MPITBU Broadcasters' Mobile Phone and Digital TBU



Two Connection Options In One Unit

The GS-MPITBU features a digital TBU and a Glensound Broadcasters' Mobile Phone. Both lines can be connected so that when there is the need for a quick change, a simple flick of the routing switch changes from TBU to mobile or vice versa.

Digital Telephone Balancing Unit

The TBU is a high quality digital unit offering excellent separation figures on analogue POTS lines.

Line connection is via a standard RJ11 connector to a fixed POTS line. A standard keypad is used on the front panel where a single on/off hook switch is used to dial and receive calls. A large red LED illuminates when connected and turns off when disconnected. A sounder provides indication of incoming calls which can be disabled via the switch for studio environments. Using presets, separate audio level controls for both the input and output of the TBU can be established.

GS-MPI005 or GS-MPI005HD Module

Either a GS-MPI005 or a GS-MPI005HD module can be installed into the sub rack with all the standard Glensound Broadcasters' Phone features.

Audio Routing

Using a low profile 2 way switch located in the centre of the front panel, incoming and outgoing audio can be routed to either the POTS TBU or the mobile phone module.

Audio Inputs and Outputs

The common electronically balanced XLR input and output is located on the rear of the panel. A 6.35mm jack headphone socket is provided on the front of the mobile phone panel for listen only monitoring.

Full Remote Control of Mobile Phone

Should a GS-MPI005HD phone module be used, either the hardware or software remote can be used.

Extended Aerial Option

As standard, an SMA aerial connector is fitted on phone module for aerial location up to 3m away. This can be changed for an N-Type to allow aerial connections up to 50m away.

Power

Standard mains 100-240 Volts (or optional 12V PSU) is used to power all features of the sub rack.



Glensound HD Voice Phone

RECCE HD HD Portable Mobile Phone and Commentators Unit

RECCE HD



The standard features of a Glensound HD Voice phone are included. The dialler and display add the functions offered by the GS-MPI005HD/REMD. **Battery Powered Portable Unit** The RECCE HD is a highly portable unit powered by 6 x 'C' cells. **3 Channel Mixer** An inbuilt 3 channel mixer allows up to 3 sources to connect to the RECCE HD. Each mixer input can accept either a mic or line level source. **PPM** A 7 LED PPM clearly indicates audio levels being sent to the mobile circuit. **Compressor / Limiter** A high quality compressor/limiter circuit is included to prevent overloading of the outgoing mobile circuit. **3 Input Headphone Amp**

The internal headphone amp has 3 audio sources. These are the outputs of the RECCE, the incoming audio from the studio and a local 'EXT' input.

Local Outputs

Balanced XLR outputs are available for connection to other equipment. The 3 outputs are 'Mix', 'Record' and 'Phone Out' (output directly from the phone module).





Glensound Electronics

GS-MPI Accessories

Accessories All Models



Accessories

- **GS-MPI005/CASE** Additional hard plastic case for GS-MPI004 and GS-MPI004HD (One supplied with GS-MPI004HD as standard)
- GS-MPI005HD 12V 12v DC power option on GS-MPI005HD

Aerials SMA

A SMA aerial comes as standard and is suitable for most applications.

GS-MPIHD/ATN1

Standard right angle stubby aerial with SMA connector (supplied as standard with GS-MPI004 and HD).

GS-MPIHD/ATN2 – Standard 2.5m t-bar aerial with SMA connector (supplied as standard with GS-MPI005 and HD).

GS-MPIHD/ATN3

Optional mag mount 3m aerial for use with SMA connectors.

Aerials N Type

If a signal cannot be found where the broadcasters' phone is to be located, a N-Type connector can be fitted to allow the use of an extended aerial up to 50m away from the mobile phone.

To allow for antenna connections over 3 metres from the rack mount Broadcasters' Mobile Phones, a 'N Type Antenna Upgrade Kit' is required. This consists of a bulkhead connector, male and female N type connector for the cable and the N Type mast mounting antenna, then add the length of the appropriate cable, either GS-MPIHD/NA1 (up to 25m) or GS-MPIHD/NA2 (up to 50m).

GS-MPIHD/NTC

Aerial upgrade modification for HD units to add N-type connector in place of SMA.

- GS-MPIHD/ATNN N-Type Antenna.
- **GS-MPIHD/NA1** Aerial cable option 1. Flexible cable giving 25m range.

GS-MPIHD/NA2

Aerial cable option 2. Semi-flexible cable giving 50m range.











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GS-MPI Broadcasters' Mobile Phone Applications

Applications







GS-MPI004/HD

Portable Broadcasters' Mobile Phone

- Sports and news reporters for quick, live interviews without the need to carry any heavy equipment.
- For outside broadcast reports in remote locations.
- A low cost back up. Should an outside broadcast line fail, the GS-MPI004/HD is a simple alternative.
- For use in remote applications where clean audio is required without RF interference.
- For TV news presenters IFB feeds.
- Direct contributions.

GS-MPI005/HD and GS-MPI007HD

Rack Mount Broadcasters' GSM Phone

- For integrating a GSM line into an outside broadcast vehicle or studio.
- For use as an extra or backup talk back channel.
- Ideal as the phone in point for part-time or temporary studios to avoid the cost of permanent line connections.
- If 100% separation is required between send and return circuits as this is not possible on normal phone lines.

GS-MPI006/HD

Rack Mount Broadcasters' GSM Phone With ISDN/HD Voice

- Space saving by putting multiple outside source comms channels (GSM & ISDN) into a 1U subrack. This is particularly relevant in outside broadcast vehicles.
- Back up talk back or broadcast channel with GSM should the ISDN fail.

GS-MPIFW

Rack Mount Broadcasters' GSM Phone With Twin Four Wire

- A sensible mix of four wire system with the GSM phone for an outside broadcast vehicle.
- Backup for studios and OB vehicles.
- Provides simple talkback facilities for fly aways.
- For seamless integration of local talk back facilities to a remote studio.

GS-MPITBU

Broadcasters' Mobile Phone and Digital TBU

- A low cost back up. Should an outside broadcast line fail, the GS-MPITBU offers two backup options in a single unit.
- For TV news/presenters/commentators IFB feeds.
- Suitable for applications with POTS and mobile phone connections

RECCE HD

HD Portable Mobile Phone and Commentators Unit

- Sports and news reports and live events.
- For multiple commentators contributing to one programme.
- Ideal for very small self OP studios.
- Suitable for press rooms and contributors to programmes.

GS-MPI

Specifications



GENERAL SPECIFICATIONS

Portable belt pack style 19 inch 1RU including 1 x GSM telephone 19 inch 1RU including 1 x GSM telephone & twin G722/G711 ISDN codec 19 inch 1RU including 1 x GSM telephone and 2 x IFB four wire circuits 19 inch 1RU including 1 x GSM telephone and 1 x digital TBU

Broadcasters' Mobile Phone Specification

Portable belt pack style 19 inch 1RU including 1 x HD Voice telephone 1 x HD Voice telephone and 1 x three input commentary mixer

Neutrik XLRs 0dB +/- 10dB +/- 15dB 26dB 0dB +/- 10dB +13dBu 6.35mm jack socket 200-2000 ohms

Telephone networks provide 300Hz to 3.4 kHz audio bandwidth 850 MHz, 900 MHz, 1800 MHz, 1900 MHz Will operate on any mobile phone network, with any SIM card 2 Watts SMA

50Hz to 7kHz in HD Voice mode HD Voice is AMR-WB 2 Watts SMA (N-Type to special order)

4 x AA cells. When 'low battery' LED flashes there is approx. 30 minutes remaining +9 to +12 volts. 2.5mm barrel connector, centre +ve 2 x D cells

100-240V 50-60Hz

SPECIFIC SPECIFICATIONS

GS-MPI004/HD (PORTABLE GSM/HD VOICE) HEIGHT WIDTH DEPTH (Excluding Connectors) MICROPHONE INPUT MIC INPUT LEVEL

RECCE HD - BATTERIES GS-MPI005, GS-MPI006, GS-MPI007HD GS-MPIFW,

GS-MPITBU- INTERNAL SWITCH MODE POWER SUPPLY

GS-MPI005/HD (RACKMOUNT GSM/HD VOICE) HEIGHT WIDTH **DEPTH (Excluding Connectors)**

GS-MPIFW (RACKMOUNT GSM WITH 4W) HEIGHT WIDTH **DEPTH (Excluding Connectors)** FOUR WIRE CIRCUITS

GS-MPI006 (RACKMOUNT GSM WITH ISDN) HEIGHT

WIDTH **DEPTH (Excluding Connectors)** ISDN ISDN DIALLING REMOTE BUS TYPE

GS-MPI007HD (RACKMOUNT WITH DISPLAY) HEIGHT WIDTH **DEPTH (Excluding Connectors)**

GS-MPITBU RECCE HD

45.7mm 148.6mm 138.4mm Neutrik XI R -54 dB

1RU 290mm (19") 258mm

1RU 290mm (19") 208mm 2

1RU 290mm (19") 256mm Twin G722 and G711 DTMF via phone or external remote RS232 S Connector

1RU 290mm (19") 258mm

Please contact Glensound for details. Please contact Glensound for details.

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2G VERSIONS GS-MPI004

GS-MPI005

GS-MPI006

GS-MPIFW

GS-MPITBU

RECCE HD

HEADROOM

NETWORK RF OUTPUT POWER

ALGORITHM

RF OUTPUT POWER

OUTPUT LEVEL

3G VERSIONS GS-MPI004HD

LINE INPUT LEVEL

OUTPUT GAIN CONTROL

HEADPHONE SOCKETS **HEADPHONE IMPEDANCE** GSM SPECIFICATIONS AUDIO FREQUENCY RESPONSE

GS-MPI005HD and GS-MPI007HD

AUDIO SPECIFICATIONS - ALL UNITS LINE IN / OUT CONNECTORS

MAX OUTPUT LEVEL (Line out with XLR)

QUAD BAND GSM FREQUENCIES

AERIAL CONNECTOR TYPE

3G (UMTS) SPECIFICATIONS AUDIO FREQUENCY RESPONSE

AERIAL CONNECTOR TYPE

GS-MPI004/HD - BATTERIES

- EXTERNAL DC INPUT

INPUT GAIN CONTROL FOR STANDARD UNITS INPUT GAIN CONTROL FOR HD VOICE UNITS

BROADCASTERS' MOBILE PHONE







Your local dealer:

E & OE

Glensound Electronics Ltd. 6 Brooks Place, Maidstone, Kent, ME14 1HE. UK Tel: +44 (0) 1622 753662 Fax: +44 (0) 1622 762330 Email: sales@glensound.co.uk www.glensound.co.uk

sales@glensound.co.uk