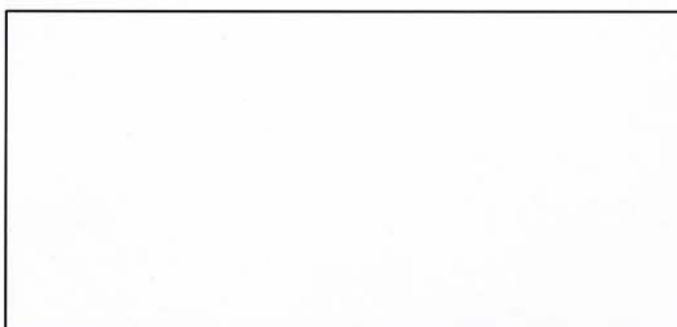


MXA 100 AND MXA 150 SPECIFICATIONS

PARAMETER	MXA100	MXA150
Power Output (into 4 Ohms)	100 Watts	150 Watts
Number of Channels	4	6
High Impedance input. (mono jack)	30mV/47K	30mV/47K
Low Impedance balanced input. (3 pin XLR)	3.5mV/6K8	3.5mV/6K8
Channel Bass Control	+10, -12dB/100Hz	+10, -12dB/100Hz
Channel Treble Control	+12, -16dB/10KHz	+12, -16dB/10KHz
Tape/CD replay input (dual phono)	300mV/(-10dBV)	300mV/(-10dBV)
Master Presence Control	+8dB at 3.5 KHz	+8dB at 3.5 KHz
Tape record Output (dual phono)	500mV/(-6dBV)	500mV/(-6dBV)
Effects Loop (facia panel jacks)	200mV/(-14dBV)	200mV/(-14dBV)
Effects Loop (rear panel jacks)	500mV/(-6dBV)	500mV/(-6dBV)
Line Output (rear panel jack)	500mV/(-6dBV)	500mV/(-6dBV)
Headphone socket (rear panel jack)	8 Ohm Phones	8 Ohm Phones
Power Requirement	100-120V or 220-240V 50/60 Hz 200 Watts	100-120V or 220-240V 50/60 Hz 300 Watts



The MXA100 & MXA150

MIXER AMPLIFIERS

MXA AMPLIFIERS

The MXA100 and MXA150 mixer amplifiers have long been the world standard for compact PA systems. Built from aluminium sections and folded steel with the unique to HH ABS moulded handles. Both units provide a rugged, dependable package for fixed and portable applications, and are ideal for use in concert, theatre, clubs, disco's, installations or any demanding situation where ease of operation and a clear sound is essential.

MXA 100

The MXA100 provides four separate channels and 100 watts of rms power. Each channel has the following features: Gain, Bass, and Treble controls. Two Inputs: One high Z Jack and one low Z XLR balanced line. Channel four is slightly different where dual phono sockets are provided in place of a high Z jack in order to allow a tape or CD machine to be connected for playback with controllable EQ and mix. Additionally each channel has independent effects and reverb switches that allow routing of signals to both internal reverb and any effects loop connected signal processors.

The master control module has Presence, Reverb Level, Master Volume, Remote reverb footswitching socket for optional footswitch 'S1' and illuminated power indicator. Send and return jack sockets are provided to receive signal processing equipment together with tape phono's for recording. These phono's are within the circuitry before the master volume control, and therefore the recording level is unaffected by the master volume setting.

On the rear chassis the mains input socket and on/off switch are located together with headphone socket, dual speaker inputs, slave output and a second effects loop that routes signals to all channels. Any HH 'Invader or Pro Series' public address enclosures may be used with the MXA100.

Sizes: W490 x H125 x D300mm. 8Kg.

MXA150

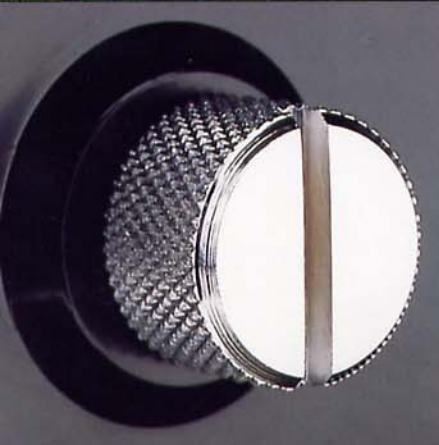
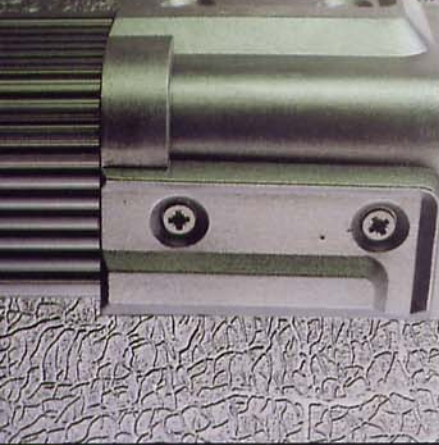
The highly distinctive and much copied MXA150 is now an industry standard throughout the world. Having the same overall control functions as the MXA100, the MXA150 boasts a genuine 150 watts of power and six channels. Any of the HH range of Invader and Pro Series public address enclosures may be used with the MXA150 with the exception of model IS 110 where MXA100 is preferred. Sizes: W650 x H125 x D300. 12Kg.



IS 210

MXA 100

MXA 150



The INVADER SERIES

O F P A C A B I N E T S

THE INVADER SERIES

Careful research and development using Bjuel and Kjaer acoustic test equipment has resulted in a range of two way PA enclosures which maximise the potential of all the components used in their construction. All units incorporate tailored passive crossover together with an efficient HF unit giving a smooth clear performance up to 20 kHz. Particular attention has been given to ensuring that by design they will stand up to the full rigours of life on the road. Each enclosure has perforated steel kick grilles, strong moulded corner pieces and extruded edging slats. Cabinets are pre drilled to receive an optional tripod stand (TP1).

The IS range has been designed to give excellent performance at an affordable price. All speakers and HF units fitted to HH enclosures are exclusively built by a sister company HH Acoustics thus users of HH PA systems are assured of total quality controlled products that have been a key factor in ensuring HH PA systems remain the world standard in compact, medium priced public address.

HH DRIVE UNITS

All speakers fitted to HH Invader cabinets have been produced within the company. Quality and performance is therefore assured since component parts such as magnets, voice coils and suspension units are selected and produced under strict supervision of HH Acoustic production engineers.

IS115

Extended bass response is one of the main features of this enclosure. IS115 is equipped with an HH 15" cone driver and HF unit with a resultant impedance of 8 ohm. The enclosure whilst the largest in the Invader series is still highly portable and a dream for PA and disco applications where a clean sound with an extended bass response is preferred. Power handling 200 watts per pair. Sizes: W490 x H630 x D355mm. 22Kg.

IS210

Two specially selected 10" speakers and an HF unit together having a power handling capability of 200 Watts per pair are the main component parts of this enclosure ensuring clean, crisp and faithful vocal reproduction.

Enclosure impedance: 8 ohm.
Sizes: W355 x H690 x D255mm. 255g.

IS110

This is the smallest of the Invader cabinets and is specifically designed for use in the smaller type venues such as folk and jazz clubs, public address, club cabaret and most other similar situations. The IS110 has a power handling capacity of 120 watts per pair and is recommended for use with HH mixer amplifier MXA100.

Enclosure impedance: 8 ohm.
Sizes W355 x H450 x D255mm. 11Kg.



IS112

Fitted with an HH 12" driver plus an HF unit in a reflex enclosure. A pair of HH IS112 cabinets will handle a full 160 Watts of power. IS112 enclosures are particularly suited to vocal harmony and acoustic instrument bands due to the enhanced mid range response of the loudspeaker. This powerful two way cabinet meets the popular needs of the majority of performers requiring quality at an acceptable price.

Enclosure impedance: 8ohm.
Sizes: W465 x H535 x D305mm. 18Kg.



IS 115

IS 112

**MXA 100 & MXA 150
MIXER AMPLIFIERS
AND INVADER SERIES
SPEAKER CABINETS**



HH
electronic