

The Auditel Hard Wired Programme Distribution system is designed to provide multi-channel language transmission to cabled delegate listening stations. The system is capable of handling up to 12 language channels. Cabled systems generally provide the cheapest, most secure, lowest maintenance and highest quality solution to the problem of multi-channel language distribution. They are particularly attractive in situations where fixed furniture is employed. A principle feature of the Auditel system is the transmission method, which is based on the use of high impedance listening posts. Unlike low impedance systems, this ensures no perceptible volume variation due to changes in channel loading. Despite this, the listening stations are entirely passive for maximum reliability and ease of maintenance. The units are connected by means of a multi-pair unscreened cable on a loop-through basis, with no restrictions on the number of taps, spurs etc.



The Integrated Distribution Amplifier is available in 4, 6 or 8 channel versions. The text and illustrations here describe the 8-channel version.

DESCRIPTION

The DA-8 is an eight-channel integrated power amplifier, designed to be used in conjunction with Auditel high impedance Listening Posts. Principal applications will be for use in multi-language simultaneous interpretation systems.

The unit is housed in a 19 2U steel chassis, suitable for rack mounting. An optional cover is available to make the unit suitable for free-standing applications where required.

The channel input signals will normally be derived from an interpretation system (e.g. from an Auditel M12 Interpretation Control Unit). A multi-way connector is provided which allows all the channel input connections to be made via one single connector.

The DA-8 is equipped with level controls and monitoring facilities. A SIN-6/12 Interface Unit is therefore not normally required (although it may be incorporated for other reasons).

AUDIO INPUTS

The channel Inputs are balanced, and are compatible with both balanced and unbalanced sources. They are combined on a single 37-way D-type connector, which is directly compatible with other Auditel Interpretation and Language Distribution equipment. For maximum flexibility, the input sensitivity can be switched to either -20 or 0dBu.

An Alarm Input is provided which, when activated, overrides all channels. This is useful for emergency announcements, or background music. The input is balanced, via a 5-pin XLR connector. The input sensitivity can be switched between -60, -40 or 0dBu. Activation is by contact closure across pins 4 & 5.

AUDIO OUTPUTS

The Channel Outputs are transformer balanced and isolated and are available on two 37-way D-type connectors. They are able to drive up to 200 High Impedance Listening Posts. Output level is set via rotary controls on the front panel and associated tri-colour LEDs provide output level indication.

The Recording Output reproduces the channel inputs in single-ended form suitable for connection to a multi-channel recording system, or slaving of additional language distribution equipment (e.g. infrared). The signals are available on a single 37-way D-type

connector. The output level is switchable between -20 and 0dBu.

MONITORING

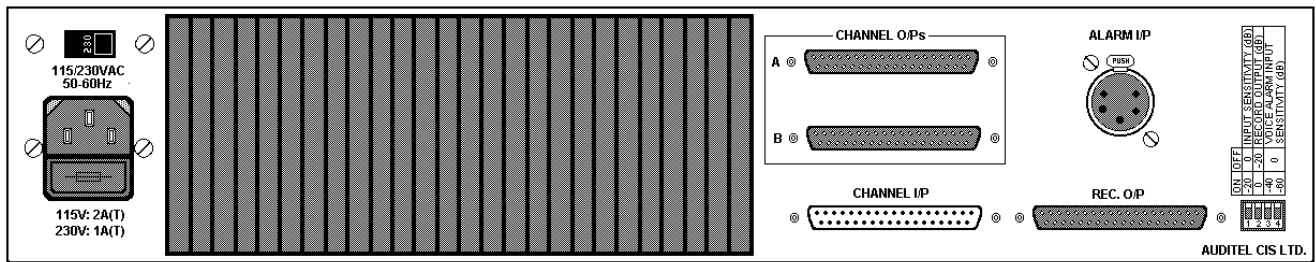
The DA-8 incorporates its own high impedance listening post that is directly connected to the outputs of the unit, therefore providing a true integrity check.

The monitoring section comprises a rotary channel selector switch, volume control and headphone jacks. Both 3.5mm and 6.35mm outlets are provided, suitable for use with either Auditel HS-3L or HS-2 headsets.

FEATURES

- Mains On/Off switch and indicator.
- Tri-colour LED signal level indicators on each channel.
- Gain control for each channel.
- Selectable input sensitivity.
- Voice Alarm input with priority override and selectable sensitivity.
- Recording output with selectable signal level.
- Two outputs to facilitate zoning.
- True output monitoring.
- Thermal overload protected.

DA8 Rear Panel View



TECHNICAL DATA

CHANNEL INPUTS

Input Type	Electronically Balanced
Connector	37-way D-type (Male)
Input Impedance	100k Ω (Differential)
Sensitivity	-20 or 0dBu nom. (configurable)
Overload Margin	20dB

ALARM INPUT

Input Type	Electronically Balanced
Connector	5-way XLR (Male)
Input Impedance	20k Ω (Differential)
Sensitivity	-60, -40 or 0dBu nom. (selectable)
Activation	Contact Closure or TTL Input

RECORD OUTPUTS

O/P Type	Single-Ended
Connector	37-way D-type (Female)
Record O/P Level	-20 or 0dBu nom. (selectable)

CHANNEL OUTPUTS

Output Type	Transformer Balanced/Isolated
Connectors	2x37-way D-type (Female)
Peak Output Level	50Vrms
Peak Output Power	10W/Channel
Frequency Response	50Hz-20kHz -3dB
Signal to Noise	85dB
Distortion	<0.2% @ 1kHz

GENERAL

Operating Voltage	115/230VAC \pm 10%, 50-60Hz.
Power Consumption	120VA max.
Dimensions (WxDxH)	485x430x90mm (19 x2U)
Weight	10kg.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The language distribution system shall consist of a 4/6/8* channel Integrated Distribution Amplifier capable of supporting up to 200 high impedance delegate listening posts. The amplifier unit shall be mains powered and housed in a 2Ux19 rack mounting chassis. It shall incorporate an Alarm override input with selectable sensitivity and remote activation by contact closure or TTL level input. There shall be a recording output connector providing unbalanced signal outputs at -20 or 0dB level (switchable). The front panel of the unit shall incorporate a mains on/off switch and indicator, a rotary level control and tri-colour indicator for each channel, and a monitoring section with rotary channel selector and volume control plus both 3.5mm and 6.35mm jacks for high impedance monaural headphones. The rear panel shall incorporate an IEC³²⁰ mains input connector, a single 37-way 'D' type plug for the channel inputs a single 37-way 'D' socket for the recording outputs, two 37-way 'D' sockets for the channel outputs, a 5-pin XLR socket for the Alarm Input and DIL switches to set the channel input, alarm input and record output signal levels. The amplifier shall be protected against thermal overload. The amplifier shall have transformer balanced and isolated audio outputs with a level of 50 volts rms and output power of 10 watts nom. The frequency response shall be 50Hz-20kHz (-3dB), distortion at 1kHz not more than 0.2% and signal/noise better than 85dB.

*As appropriate.



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