

# DA-410 DISTRIBUTION

## AMPLIFIER/ZONE MIXER



The ALTAIR DA-410 is a compact high performance distribution amplifier/zone mixer/mic splitter. In one only 19" Rack high the device is able to process two stereo input signals to obtain five stereo output signals, all with independent level controls.

Used as Zone Mixer, the unit can control five zones in stereo mode or ten in mono mode (or any other combination), from the mix of the original two stereo input signals.

As a audio distributor, it permits to obtain up to ten mono output signals, or five in stereo mode for its use in press rooms, recording units, audio production, broadcast, etc. Since it has two stereo inputs, the DA-410 permits to use the B stereo input as an emergency (reserve) input signal.

Individually selected MIC/LINE input preamplifiers allows microphone or line signals splitting to additional mixers without quality and headroom degradation. Up to 4x8 or 1x10 active splitting is possible.

One MONO switch per Zone allows to convert the output signals in order to adapt them to monophonic equipment. With monophonic input signals, this switch is equally useful to duplicate the signals to L, R (stereo like).

- 2 Stereo Inputs + 5 Stereo Outputs (10 in mono mode).
- Mic/Line active splitter, 4x8/1x10.
- Balanced Inputs/Outputs.
- Built-in miniature stereo speakers. PFL and headphones output.
- SIGNAL/CLIP LED's indicators in all input and output signals.
- Input and Output compatibility to mono/stereo signals.
- Optional transformers in all the inputs and/or outputs.
- Up to 2 optional parametric equalisation points on each output.

The unit has a monitoring system or PFL, with built-in micro-speakers, headphone output and selectable Vu-meter. It allows analysing and calibrating the input signals and all the outputs. This stereo monitoring system permits a simple and efficient control of audio continuity in moderately noisy environments.

All the inputs and outputs are electronically balanced (XLR) and admit as option, input and output transformers in order to improve the common mode rejection ratio as well as providing galvanic isolation.

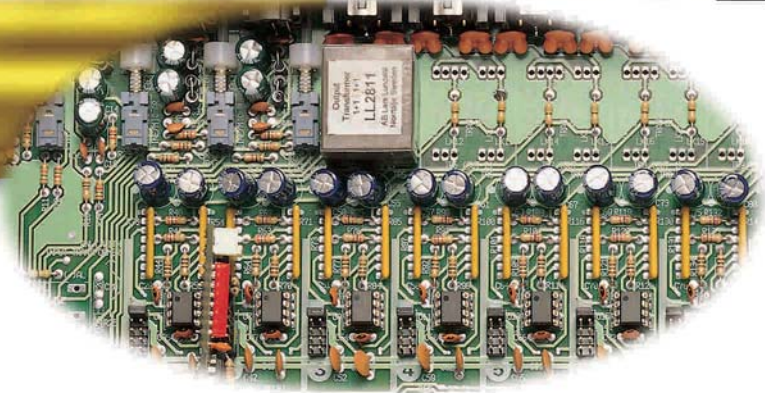
Up to two parametric equaliser cards TE-F can be installed as an option, in each one of the ten outputs, permitting the appropriate tonal correction to each zone or speaker system.



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### TECHNICAL SPECIFICATIONS

#### NUMBER OF INPUTS

2 stereo (XLR-3-31).

#### INPUT IMPEDANCE

2 K $\Omega$ /5K $\Omega$  (MIC/LINE). Electronically balanced.

#### INPUT LEVEL

0 dBu. nominal.

+9 dBu. maximum mic input.

+22 dBu. maximum line input.

#### INPUT GAIN/ATTENUATION

+6/- $\infty$  dB. Level control via calibrated rotary potentiometer.

#### NOMINAL GAIN

0 dB/+12 dB. Line/Mic input selection.

#### NUMBER OF OUTPUTS

5 stereo or 10 mono (XLR-3-32).

#### OUTPUT IMPEDANCE

100W. Electronically balanced.

#### OUTPUT LEVEL

0 dBu. nominal /+22 dBu. Maximum (XLR-3-32).

#### OUTPUT GAIN/ATTENUATION

+6/- $\infty$  dB. Level control via calibrated rotary potentiometer.

#### C.M.R.R.

Greater than 55 dB (20 Hz-20KHz).

#### NOISE

Less than -100 dBu. at any output, 20 Hz to 20 KHz, unweighted.

E.I.N. 111 dBu. Mic inputs, 200W source impedance.

#### FREQUENCY RESPONSE

10 Hz to 50 KHz (+0, -0.5 dB).

#### CHANNEL SEPARATION

Greater than 90 dB at 1 KHz, 67 dB (20Hz - 20 KHz).

#### INDICATORS

CLIP (+15 dBu) red LED

(two per stereo input and output).

SIGNAL (-20 dBu) green LED

(two per stereo input and output).

5 LED's stereo Vu-meter, switchable between inputs and outputs.

Vu-meter visualisation selector (8 LED's).

#### MONITORING

Headphones output, Jack 1/4".

Built-in stereo micro-speakers

(maximum SPL 82 dBA at 1m).

#### DISTORTION

Less than 0.01% at 0 dBu. (20 Hz - 20 KHz).

#### MAINS SUPPLY

User selectable 115 and 230 VAC  $\pm$ 12%, 50-60 Hz.

#### POWER REQUIREMENT

30 VA.

#### DIMENSIONS

483X44X245 mm. (19"x 1u).

#### OPTIONS

Input and output transformers.

Equaliser cards (2 per output).

Plastic or metal (key protected) security cover.

Technical specifications subject to variation without previous notice.

DISTRIBUTED BY



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