

## FA-524/FA-724



### DESCRIPTION

The active crossovers FA-524 / 724 has been designed in order to offer maximum flexibility and adaptability. The use of selectable and plug-in cards allow to personalize any loudspeakers' system by the manufacturer or the specialized user.

These units allow the insertion of future improvements as change of power amplifiers, number of ways, loudspeakers, tweeters replacement or any other imposed parameter for technical up-dating.

FA-524: 2 way stereo + subwoofer mono way; 3, 4 or 5 way mono.

FA-724: 3 way stereo + subwoofer mono way; 4, 5, 6 or 7 way mono.

**HI-PASS:** Input high pass filter used as subsonic filter or for special realizations.

**PHASE:** Phase adjust between ways from 0° to 360°. In the subwoofer way allows delay alignment up to 6 ms (two meters) with respect to the low way from the front panel.

**MUTE:** Automatic mute when switching on (all ways) and partial mute of ways from the front panel.

**LIMITER:** Limiter circuit with adjustable threshold on each way. These limiters will lengthen notably loudspeakers' life without appreciable deterioration of sound quality.

**BALANCED:** Equipped with electronic input and output balanced circuits for noise immunity in long wiring set-ups.

**EQ:** Two fully parametric equalization points on each way in order to correct the frequency response and personalize the equipment.

**FILTERS:** Selectable, overlapping or symmetric filters, Linkwitz-Riley type.

**DELAY:** When the phase differences are very great or irregular, the use of the delay on each way is the only tool to obtain coherence of phase between the loudspeakers or arrays.

#### Technical Data:

Input impedance:	10 K $\Omega$ electronically balanced
Input level:	0 dBv nominal / +21 dBv maximum (XLR-3-31)
Gain/Attenuation:	$\pm$ 6 dB Level control via calibrated rotatory potentiometer
Output impedance:	100 $\Omega$ Electronically balanced
Output level:	0 dBv nominal / +21 dBv maximum (XLR-3-32)
Filters:	24 dB / octave LINKWITZ-RILEY type Selectable by plug-in card Factory preset frequencies: SUBWOOFER: 82Hz, 100Hz, 120Hz and 150Hz OTHER WAYS: 100Hz, 120Hz, 150Hz, 180Hz, 220Hz, 270Hz, 330Hz, 390Hz, 470Hz, 560Hz, 680Hz, 820Hz, 1KHz, 1K2, 1K5, 1K8, 2K2, 2K7, 3K3, 3K9, 4K7, 5K6,
Crossover frequencies:	

<b>Limiter:</b>	<b>6 K8, 8 K2,</b> <b>Adjustable inside by 1 dB steps, between ±15 dBv</b> <b>Attack and release time optional for each frequency card</b>
<b>Noise:</b>	<b>Compression ratio 10:1</b> <b>-92dBv at any output, from 10 Hz to 20 KHz,</b> <b>unweighted</b> <b>MUTE red LED on each way</b> <b>Tricoloured LED on each way:</b> <b>GREEN (-20dBv)</b> <b>ORANGE (LIMITER THRESHOLD)</b> <b>RED (+15 dBv)</b> <b>MONO green LED</b> <b>STEREO green LED</b>
<b>Indicator:</b>	<b>ORANGE (LIMITER THRESHOLD)</b> <b>RED (+15 dBv)</b> <b>MONO green LED</b> <b>STEREO green LED</b>
<b>Distortion:</b>	<b>Less than 0,05% at +4dBv with limiter</b> <b>Change of 180° via the polarity switch</b>
<b>Phase:</b>	<b>Adjustable from 0° to 180° between ways</b> <b>via calibrated potentiometers</b>
<b>Crosstalk:</b>	<b>-70 dB from 20Hz - 20KHz</b>
<b>Mains supply:</b>	<b>Selectable between 115 and 230 VAC ±12%, 50 - 60 Hz</b>
<b>Power requirement:</b>	<b>30 VA</b>
<b>Net weight:</b>	<b>4 Kg</b>
<b>Dimension (WxHxD):</b>	<b>483x45x245mm</b> <b>FREQUENCY CARD</b> <b>Other frequencies than the listed ex-works can be obtained as options</b> <b>DELAY CARD</b> <b>2 ms. (70cm) Up to 2 KHz</b> <b>500 s. (17cm) Up to 8KHz</b>
<b>Options:</b>	<b>EQUALIZER CARD</b> <b>Selectable gain between ±1 dB and ±15 dB</b> <b>in 1 dB steps</b> <b>Selectable center frequency between 25 Hz and 20 KHz</b> <b>1/3 octave step (ISO standard)</b> <b>Selectable Q (bandwidth) between 0,1 and 10</b>