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bit Ten

Signal Interface Processor

Power Supply 11 ÷ 15 VDC Voltage Idlina current 0.4 A Switched off without DRC 2.5 mA Switched off with DRC 4 mA Remote IN voltage 7 ÷ 15 VDC (1.3 mA) Remote OUT voltage 12 VDC (130 mA)

Signal Stage Distortion-THD @ 1 kHz, 1V RMS Output 0.005 % Bandwidth @ -3 dB 10 ÷ 22k Hz S/N Ratio @ weighted Master Input 95 dBA Aux Input 96 dBA Channel Separation (@ 1 kHz) 85 dB Input sensitivity (Speaker In) 2 ÷ 15 V RMS 0.6 ÷ 5 V RMS Input sensitivity (AUX in) Input sensitivity (PHONE) 2 ÷ 15 V RMS Input impedance (Speaker In) 2.2 kO Input impedance (AUX in) 15 kO Input impedance (PHONE) 2,2 kΩ Max Output Level (RMS) @ 0.1% THD 4 V RMS

input Stage	
High Level (Speaker)	FL - FR - RL - RR - PHONE IN
Low Level (Pre)	AUX IN

Output Stage	
Low Level Pre (Default)	FRONT L/R REAR L/R SUB

Connection

From / to personal computer 1 x USB / B (1.1/2.0)

Crossover N.5 (one each output channel)

Mode	Full / High Pass/ Low Pass/ Band Pass
Type and slope	Linkwitz @ 12/24 dB Butterworth @ 6/12/18/24 dB
Crossover frequenc	y 68 steps @ 20 ÷20k Hz
Phase control	0° ÷ 180°

Equalizer

Hi-Level Input (Speaker In) Automatic De-Equalization Outputs N.5 Graphic: \pm 12 dB @ 31 Band ISO 1/3 Oct. 20 \div 20k Hz

Time Alignment

Distance	$0 \div 510 \text{ cm} / 0 \div 200.8 \text{ in}.$
Delay	0 ÷ 15 ms
Step	0,08 ms; 2,8 cm / 1.1 in.
Fine set	0,02 ms; 0,7 cm / 0.27 in.

Size

W x H x D (mm / in.)	191 x 34 x 131 / 7.51 x 1.33x 4.76
Weight (kg / lb.)	0,6 /1.322



Audio DSP and converters

32 bit Cirrus Logic (Clock speed: 147 MHz) Digital Signal Processing chip and A/D D/A converters working in PCM at 48 kHz with 24 bit resolution. The processor speed allows the user to hear and verify in real time the changes applied during the tuning.

Audio Inputs

4 independent high-level channels with automatic summing capability;

1 analog low-level stereo auxiliary input; 1 high-level momentary audio interrupt input (with priority) on Phone Mute cable (settable through PC).

Audio Outputs

5 independent analog PRE channels featuring adjustable level.

Control Connections

1 USB /B (2.0) connector for PC connection;

1 AC Link control bus connectors for DRC; 1 input for external Mute (settable through PC).

Configuration

Guided procedure that, thanks to a wide range of set names, provides the ability to assign each component to the bit Ten connections and automatically coordinate their functioning.

Turn-on Controls

ART, Automatic Remote Turn on/off, selectable from Hi-Level Front L. The ART can be enabled through an external switch;

Through the Remote IN;

Through the car ignition key with memory function; Through the DRC (optional);

Automatically through the hands-free phone kit.

In/Out Volume

Input sensitivity manual adjustable for the Master Hi-Level inputs (with supplied Test CD);

Manual input sensitivity adjustment for auxiliary inputs; Independent level control for each output channel for system fine tuning (-40 \div 0 dB).

De-equalization

Automatic de-equalization of signal fed into the high-level inputs (with supplied Test CD) if necessary. It can also be performed without the PC.

Equalizers

31-band graphic equalizer (1/3 Oct.; ±12 dB) for each output channels.

Crossover Filter

Filter typology: selectable; Hi-pass, Lo-pass, Full Range, Band pass with independent selectable cut-off slope.

Cut-off frequency: 70 steps available from 20 Hz to 20k Hz;

Cut-off slope: selecable; 6 to 24 dB/Oct.; Selectable alignment: Linkwitz or Butterworth;

Mute: selectable for each output (On/Off); Phase: selectable for each output (0°/180°);

Signal channels reconstruction

It can reconstruct a stereo output signal from a multi-channel input signal. In addition it can reconstruct rear, centre and subwoofer output channels from a stereo input.

Time Alignment

Guided procedure for the speaker distance data entry with an automated calculation (distance to time) for each channel for accurate delay times. System also provides for manual fine tuning of delay (0.02 ms fine set).

DRC (optional)

Master Volume, Subwoofer Volume, Balance and Fader controls, Input selection, Memory selection, Adjustable display brightness.

2 presets separately managed and recalled by the DRC (optional).

bit Ten software

Windows (XP, 7 and Vista) based software with "Standard" and "Expert" operating modes; Screen resolution: 1024 x 600 px min.





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