

audison

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bit Ten

Signal Interface Processor



Power Supply

Voltage:	11 ÷ 15 VDC
Idling 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 ÷ 2	2k Hz
S/N Ratio @ A weighted Master Input: Aux Input:		5 dBA 6 dBA
Channel Separation @ 1 kHz:	8	85 dB
Input sensitivity (Speaker In):	2 ÷ 15 V	/ RMS
Input sensitivity (AUX In):	0.6 ÷ 5 \	/ RMS
Input sensitivity (PHONE):	2 ÷ 15 \	/ RMS
Input impedance (Speaker In):	2	2.2 k Ω
Input impedance (AUX):		15 k Ω
Input impedance (PHONE):	2	2.2 k Ω
Max Output Level (RMS) @ 0.1%	ΓHD: 4 \	/ 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)

Filter Type: Full / High Pass / Low Pass / Band Pass	
Filter mode and slope: Butte	Linkwitz @ 12/24dB erworth @ 6/12/18/24dB
Crossover frequency:	68 steps @ 20 ÷ 20k Hz
Phase control:	0° ÷ 180°

Equalizer

On Hi-Levels input (Speaker In): Automatic De-Equalization
On Outputs:
N.5 Graphic: ± 12 dB @ 31 Band ISO 1/3 Oct. 20 ÷ 20k Hz

Time Alignment

Distance:	0 ÷ 510 cm / 0 ÷ 200.8 inch
Delay:	0 ÷ 15 ms
Step:	0.08 ms; 2.8 cm / 1.1 inch
Fine set:	0.02 ms; 0.7 cm / 0.27 inch

Size

		leight) x D (Depth)	
ı	(mm/inches):	191 x 34 x 131 / 7.51" x 1.3	33" x 4.76'
l	Weight (kg/lb):	C	.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	USB /B (2.0) connector for PC connection AC Link control bus connectors for DRC 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: selectable; 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
Memory	2 presets separately managed and recalled by the DRC (optional)

Microsoft Windows (XP, 7 and Vista) based software with "Standard" and "Expert" operating modes screen resolution: $1024 \times 600 \ px$ min.

bit Ten software



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