

bit

bit One HD

Virtuoso

High Definition Signal Processor



POWER SUPPLY	
Nominal power supply voltage / Fuse	11 ÷ 15 VDC / 2A
Pulse operating voltage	6,5 ÷ 17 VDC
Idling current	0.75 A
Switched off without DRC MP	2 mA
Switched off with DRC MP	5 mA
Remote IN	4 ÷ 15 VDC (1 mA)
Remote OUT	4 ÷ 15 VDC (130 mA)
ART - Automatic Remote Turn on/off from OUTPUT BTL speakers	1.5 ÷ 7 VDC
SIGNAL STAGE	
Distortion - THD @ 1 kHz, 1 VRMS Output	0.004 %
Bandwidth @ -3 dB	10 Hz ÷ 44 kHz
S/N ratio @ A weighted, 4 V Output, 2 V MASTER input	104 dBA
S/N ratio @ A weighted, 4 V Output, 2 V AUX input	105 dBA
S/N ratio @ A weighted, 4 V Output, OPTICAL IN1/IN2 input	110 dBA
Channel Separation @ 1 kHz	80 dBA
Input sensitivity PRE IN / Master	1.3 ÷ 9 VRMS
Input sensitivity Speaker IN / Master	5 ÷ 32 VRMS
Input sensitivity AUX	0.7 ÷ 5 VRMS
Input impedance Speaker In / AUX / Pre In	15 kΩ (Pre IN / AUX) 5 Ω (Speaker IN)
Max Output Level 0.1% THD	4 V
INPUT STAGE	
Low level (Pre)	Ch1 ÷ Ch6; AUX L/R
High Level (Speaker In)	Ch1 ÷ Ch12
Digital	2 x Optical S/PDIF; Max 192 kHz/24 bit
OUTPUT STAGE	
Low level (Pre)	Ch1 ÷ Ch13 (IIR mode); Ch1 ÷ Ch 9 (FIR mode)
Digital AD Link 1	Ch1 ÷ Ch8 (IIR / FIR mode)
Digital AD Link 2	Ch9 ÷ Ch13 (IIR mode); Ch9 only (FIR mode)
CONNECTION	
From / To Personal Computer	1 x micro USB
To Audison Amplifiers	2 x (AC Link / AD LINK) control bus
To Audison DRC MP	1 x AC Link
Audison ADC Port	to manage other Audison devices that support this standard

CROSSOVER	
Filter type	Full / High-Pass / Low-Pass / Band-Pass
Filter mode and slope	Linkwitz @ 12 / 24 / 36 / 48 dB Butterworth @ 6 / 12 / 18 / 24 / 30 / 36 / 42 / 48 dB Bessel @ 6 / 12 / 18 / 24 / 30 / 36 dB FIR @ 6 / 12 / 18 / 24 / 30 / 36 / 42 / 48 dB
Crossover Frequency	Lo-Pass: 0 ÷ 44k Hz (1 Hz step) Hi-Pass: 0 ÷ 20k Hz (1 Hz step)
Phase control	0° / 180°
EQUALIZER (10 Hz ÷ 20 kHz)	
High Level Inputs (Speaker In)	Automatic De-Equalization, Delay Compensation, All Pass Compensation, Polarity check
AUX Input	Parametrics Equalizer: +12 dB ÷ -15 dB; 10 poles FIR type
OPTICAL IN1/IN 2 Inputs	Parametrics Equalizer: +12 dB ÷ -15 dB; 10 poles FIR type
OUTPUTS	IIR mode: N.13 Parametrics Equalizers: +12 dB ÷ -15 dB; 13 poles FIR mode: N.13 Parametrics Equalizers: +12 dB ÷ -15 dB; 9 poles FIR type + 3 poles IIR type
MAIN EQ	Parametric Equalizer: +12 dB ÷ -15 dB; 5 poles FIR type + 1 pole IIR type
Dynamic Equalization	Self-adjusting System between low and high listening levels
Bass Boost	Adjustable parametric pole (±12 dB; 10 ÷ 500 Hz)
TIME ALIGNMENT	
Distance	1.4 ÷ 756 cm / 0.6 ÷ 297.7 inches
Delay	0 ÷ 22 ms
Step	0.04 ms, 1.4 cm, 0.6 inch
GENERAL REQUIREMENTS	
PC connections	USB 1.1 / 2.0 / 3.0 Compatible
Software/PC requirements	Microsoft Windows (32/64 bit): XP, Vista, Windows 7, Windows 8, Windows 10
Video Resolution with screen resize	min. 800 x 600
Ambient operating temperature range	0 °C to 55 °C (32°F to 131°F)
SIZE	
W (Width) x H (Height) x D (Depth) mm/inch	148 x 43.6 x 233 / 5.82" x 1.7" x 9.17"
Weight kg/lb	1.775 / 3.9