La Voce S3 Discrete DAC

La Voce to the next level

Key features

• R2R resistor ladder network D/A conversion

• High performance proprietary FPGA-based digital decoding without digital filter

• Jitter free digital interface AQlink (I2S protocol), uncompromising digital connection to La Diva cd transport

• Zero S/PDIF Jitter design, digital receiver stage PLL (phase locked loop) technology

• Discrete Regulator (MOSFET, J-FET, BJT) for analog and digital DAC's power supply

• MODULAR DESIGN with upgradeable multi board platform

• 2 separate low noise transformers, one for the analog and one for the digital section

• Fully discrete analog stage

• Electronically-balanced XLR outputs

• Proprietary USB Firmware / driver :
Apple MAC OS - Linux OS : USB asynchronous native support, no need to install drivers software

• Fully upgradeable high-speed USB Audio Class 2 module, PCM 44.1kHz to 384kHz PCM up to 24 bits, DSD64 / DSD128, operates with computers running OSX 10.7 and above, WINDOWS 10, 7, 8, XP with ASIO bit perfect

• Digital phase selector on front panel

• High-quality parts selected for sound quality:
- 105° long life capacitors
- low noise Metal Foil ultra-precision resistors
- metallized film pulse capacitor
- ultra-fast diodes

• Analog output: RCA single-ended - XLR balanced asymmetrical

• Aluminium anti-resonant cabinet with Nextel

• Designed and handmade in Italy

Performance characteristics

Digital to analog conversion type	Proprietary Discrete DAC Pure R2R ladder - FPGA (Field Programmable Gate Arrays) based without digital filter
Supported Native Sample Rates	AQlink / I2S serial bus - USB PC Audio : 44.1kHz to 384kHz PCM up to 24 bits DSD64, DSD128 Supports DSD via DoP on all inputs
DAC architecture	Multibit sign magnitude R2R ladder (upgradable)
Asynchronous USB (High Speed)	USB Audio Class 2 with Type B connector
Digital Receiver	PLL (phase locked loop) technology 128 or 256 FS selectable
AQlink (I2S bus)	LVCMOS level
Oversampling factor	1x
Analog Conversion method	Pure R2R ladder - FPGA (Field Programmable Gate Arrays) based digital decoding without digital filter
Digital inputs	- RJ45 AQlink (I2S serial bus) - 24 bit / 384 KHz - BNC coax (S/PDIF) 75 ohm - 24 bit / 192 KHz - USB port - 24bit / 384 kHz PCM - DSD64, DSD128 AQ-i modular input: - AES/EBU balanced 110 ohm - 24 bit / 192 KHz (cod. D111) - RCA coax (S/PDIF) 75 ohm - 24 bit / 192 KHz(cod. D113) - AT&T (ST Fiber) - 24 bit / 192 KHz(cod. D112) - Optical TOSLINK - 24 bit / 96 KHz (cod. D114)

Analogue Outputs	UNBAL 2 RCA Output 2.4 V RMS BALANCED (asymmetrical output) 2 XLR Output : 4.8V RMS
Output Impedance	100 Ω RCA - 600 Ω XLR
Load Impedance	10 k Ω (min.) RCA - 600 Ω XLR
Frequency Response	20Hz to 22kHz +0.5dB/-0.5dB
THD + N	<0.1% 1KHz -20dB
Front Panel	Power, input selector, Phase Invert switch
Power Consumption	100-115V / 220-240V; 50 or 60Hz - 58VA
Dimensions	(W x D x H) 450 x 310 x 100 mm
Weight	7 kg
Front finish	Satin Alu Silver or Satin Black
Case finish	Grey Nextel powder coated

Handcrafted in Italy

aqua
acoustic quality

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