

S8 DSP

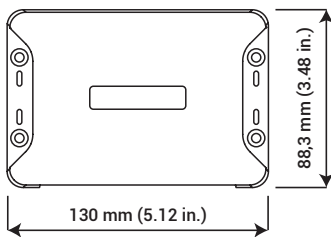
DIGITAL INTERFACE PROCESSOR

hertz-audio.com

HERTZ

S8 DSP

DIGITAL INTERFACE PROCESSOR



1. Small and weatherproof - perfect for motorcycles

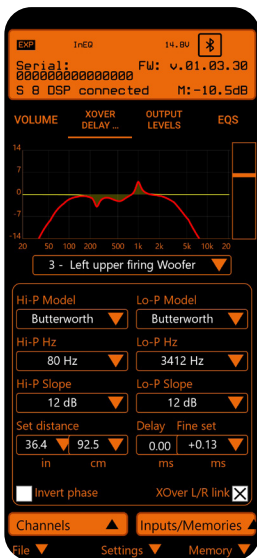
- Compact size featuring all connections on one side to be installed anywhere
- Anti-corrosion-treated PCB to ensure years of listening pleasure in open nature
- Three different application setups: Car, Motorcycle, Free placement (boat, van, pick-up)
- Party & Ride presets, to optimize the sound performance in all conditions

2. Configurable with a PC, a Mac, an Android device, or an iOS device

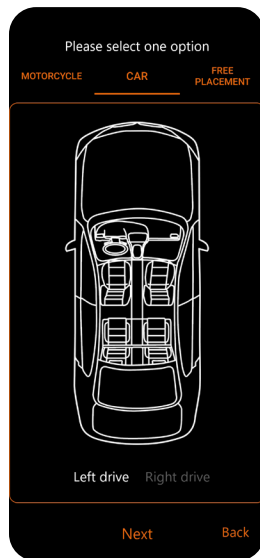
- iOS/Android control APPs (Bluetooth 5.0)
- DRC control over app from iOS/Android devices

3. Powerful DSP with the excellent sound quality you expect from Hertz

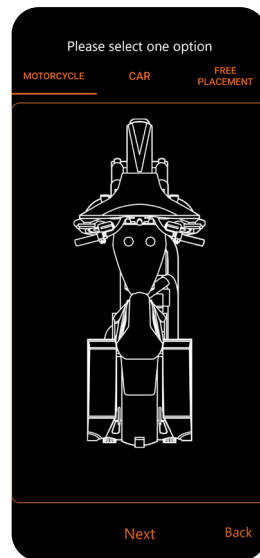
- Hi-Res audio (96 kHz/24-bit native resolution) for unparalleled audio quality
- 6-channel SPEAKER IN (2,5 – 21 Vrms) on a dedicated socket with built-in USS (Universal Speakers Simulator)
- SPDIF coaxial input (up to 24bit/96KHz)
- 8-channel / 4Vrms-capable RCA outputs
- Signal Output Active Limiter prevents clipping



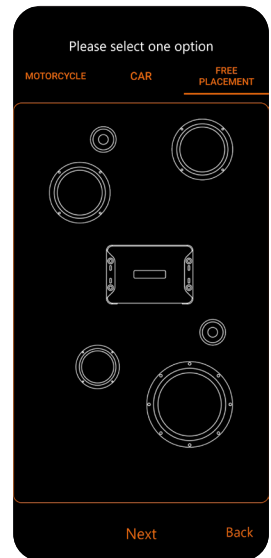
Crossover filter setup



Car channel setup



Motorcycle channel setup

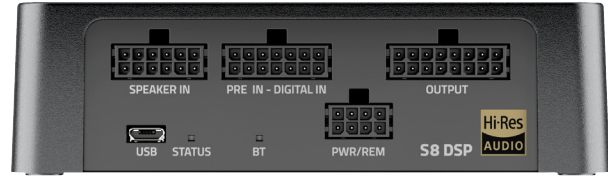


Free placement setup



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All connectors in one side



- 6-channel PRE IN (0,8 - 6Vrms)
- 6-channel SPEAKER IN (2,5 - 21Vrms) (with USS)
- SPDIF coaxial input (up to 24bit/96KHz)
- ART™ - Automatic Remote Turn-On/Off with Speaker-In
- 8-channel / 4Vrms capable RCA outputs
- 7-band EQ for each input channel
- Input-Output Routing Matrix setup by Control APP/Software
- Start&Stop Compliance to 6V
- 4 Presets selection by wire
- iOS/Android Control APPs
- Windows/Mac Control Software

POWER SUPPLY

Nominal Power supply voltage / fuse:	7 ± 20 VDC / 1A
Pulse operating voltage:	5 ± 24 VDC
Idling current:	0.34 A
OFF current (ART™= OFF):	<80 µA
OFF current (ART™= ON):	<80 µA
Remote IN:	6 ± 20 VDC (10 mA)
Remote OUT:	4 ± 20 VDC (150 mA)
ART - Automatic Remote Turn on/off from BTL speaker outputs (selectable):	1.5 ± 7 VDC

SIGNAL STAGE

Resolution:	24bit
Sampling Rate	96 KHz
Distortion - THD @ 1 kHz, 1 VRMS Output:	0.004 %
Bandwidth @ -3 dB:	10 Hz ÷ 40 kHz
S/N ratio @ A weighted, 4 V Output, 1 V Master Input:	100 dBA
S/N ratio @ A weighted, 4 V Output, 1 V Digital IN Input:	112 dBA
Channel Separation @ 1 kHz:	97 dBA
Input sensitivity Pre-In:	0.8 ÷ 6 VRMS
Input sensitivity Speaker-In:	2.5 ± 21 VRMS
Input Impedance:	38 kΩ (Pre IN/AUX) 4.7 Ω (Speaker IN)
Max output Level 0,1%THD:	4 V

INPUTS STAGE

Analog inputs management	Audio input routing matrix type
Low level (Pre In):	6 RCA inputs
Hi-Level:	6 Wired inputs
Digital IN:	Coaxial S/PDIF; up to 24bit 96KHz; Extra Gain+3dB, +6dB.

OUTPUT STAGE

Low level (Pre Out):	8 RCA outputs
Output Equalizer	15 poles Parametric EQ; ±12 dB; 20 ±20 kHz
Output Signal Limiter	Yes (Selectable)

CONNECTION

From / to personal computer:	1 x micro USB
Bluetooth data connectivity (no audio streaming):	BT 5.0 (BLE)

CROSSOVER

Filter type:	Full / Hi-Pass / Low-Pass / Band Pass
Filter mode and slope:	Linkwitz @ 12 / 24 dB Butterworth @ 6 / 12 / 18 / 24 / 30 dB Bessel @ 6 / 12 / 18 / 24 / 30 dB
Crossover frequencies:	20 ÷ 20 k Hz (120 step)
Phase control:	0° / 180°

EQUALIZER (20 HZ ÷ 20 kHz)

Inputs:	Parametric EQ: +12 dB ÷ -12 dB; 7 poles (for each input channel)
Outputs:	Parametric EQ: +12 dB ÷ -12 dB; 15 poles (for each output channel)

GENERAL

Memory Preset:	4 x Preset
Memory Preset selection:	Through the Control Software or by wire
Input Selection:	Through the Control Software or by wire

TIME ALIGNMENT

Distance:	0 ÷ 471.5 cm / 0 ÷ 185.5 in.
Delay:	0 ÷ 13.58 ms
Step:	0.02 ms, 0.7 cm / 0.27 in.

GENERAL REQUIREMENTS

PC connections:	1 x USB 1,1 / 2,0 / 3,0 Compatible or Bluetooth 5.0 BLE
Software / PC requirements:	Microsoft Windows (32/64 bit): Windows 10 (USB and BT BLE) Windows 11 (USB and BT BLE) Mac Os: 10.13 High Sierra or later (USB and BT BLE)
Minimum mobile device requirements:	Android OS 7 or later (USB OTG and BT BLE), iOS 12 or later (BT BLE)
Video Resolution with screen resize	min. 1024 x 600
Ambient operating temperature range	0° C to 55° C / (32° F to 131° F)

SIZE / WEIGHT

Max size W x H x D (mm/inch):	130 x 37 x 88.3 / 5.12 x 1.45 x 3.48
Weight (kg/lb):	0.66 / 1.45