

# TECHNICAL SPECIFICATIONS

## Hardware Specification

|                                |  |                             |         |           |
|--------------------------------|--|-----------------------------|---------|-----------|
| Output Levels; Nom (0VU) / Max | MASTER 1   | + 4dBu                      | /       | + 24dBu   |
|                                | INSERT   | - 2dBu                      |         |           |
|                                | MASTER 2   | + 4dBu                      | /       | + 18dBu   |
|                                | BOOTH  | + 4dBu                      | /       | + 18dBu   |
|                                | RECORD   | - 8dBu                      | /       | + 10dBu   |
| Internal headroom              | Channels   | + 20dB                      |         |           |
| Frequency response             | LINE IN to MST out   | +/-0.5dB from 20Hz to 30kHz |         |           |
| Distortion                     | Typically 0.03% @ 1kHz 0dBu (THD+Noise 22Hz to 22kHz)  |                             |         |           |
| Crosstalk                      | < -85dB inter-channel @ 1kHz +10dBu  |                             |         |           |
| Residual Noise (22Hz - 22kHz)  | MASTER 1   | - 98dBu                     |         |           |
|                                | MASTER 2   | - 98dBu                     |         |           |
|                                | BOOTH  | -101dBu                     |         |           |
|                                | Mix Noise (22Hz - 22kHz)   | Master 1                    | - 90dBu |           |
|                                | Master 2   | - 85dBu                     |         |           |
|                                | Booth  | - 85dBu                     |         |           |
|                                | Record RCA   | - 90dBu                     |         |           |
| Mic Gain                       | +40dB, EIN = -120dB (@ 40dB gain with 150R source)   |                             |         |           |
| RIAA Gain                      | +42dB @ 1kHz (6mV RMS= 0VU @ 1kHz)   |                             |         |           |
| Channel Meters                 | 9 LED  | - 20dBu                     | to      | + 10dBu   |
| Master Meters                  | 11 LED   | - 35dBu                     | to      | + 10dBu   |
| Channel EQ A/B                 | HI   | 3kHz                        |         | + 6/-∞dB  |
|                                | PARAMETRIC   | 190Hz - 2.75kHz             |         | +10/-24dB |
|                                | LO   | 180Hz                       |         | + 6/-∞dB  |
| Channel EQ 1-4                 | HI   | 3kHz                        |         | + 6/-∞dB  |
|                                | HI MID   | 1.1kHz                      |         | +10/-27dB |
|                                | LO MID   | 350Hz                       |         | +10/-27dB |
|                                | LO   | 180Hz                       |         | + 6/-∞dB  |
| Channel faders 1-4             | 60mm VCA control individually replaceable.<br>Plug in replacement - user replaceable [A&H spare-part#: <b>004-999X</b> ]<br>< -85dB shutoff @1kHz +10dBu |                             |         |           |
| Cross-fader                    | 45mm innoFADER VCA control.<br>Plug in replacement - user replaceable [A&H spare-part#: <b>AI11470</b> ]   |                             |         |           |
| Filters                        | Dual, stereo, analogue Voltage Controlled Filters.   |                             |         |           |

## Digital Architecture (USB) Specification

|                                  |   |
|----------------------------------|---|
| Analogue/Digital Line-up         | 0dBu = - 14dBFS   |
| Audio Channels:                  | 24 Channel (6 Stereo IN / 6 Stereo OUT),                      |
| Supported Variable Buffer Sizes: | 32 / 64 / 128 / 256 / 512 / 1024 / 2048 / 4096 / 8192 samples |
| Supported Sample Rates:          | 44.1 kHz / 48kHz / 88.2kHz / 96kHz                            |
| Supported Bit depth:             | 16 bit / 32 bit   |
| USB MIDI Channels:               | 2 x MIDI IN / 2 x MIDI OUT (USB 1 and USB 2)                  |

## SPECIFICATIONS continued

|                                   |  |
|-----------------------------------|--|
| <b>Model</b>                      | XONE:96  |
| <b>Type</b>                       | Analogue   |
| <b>Channels</b>                   | 6 + 2  |
| <b>EQ</b>                         | 4-Band: CH 1- 4 ; 3-Band, Parametric: CH A/CH B  |
| <b>BOOTH</b>                      | 3-Band EQ ; STERO/MONO ; MUTE ; Level  |
| <b>USB Soundcards USB1 / USB2</b> | 2 x 24 Channel ; 12 in / 12 out [6 x Stereo pairs]<br>Hi-Speed USB2.0 [USB B] ; macOS Class Compliant [see p.24]<br>32bit / 96kHz<br>2 x MIDI IN<br>2 x MIDI Out   |
| <b>USB Inputs</b>                 | 2 x 6: [CH 1- 4 ; SEND1 ; MST/SEND2]   |
| <b>USB Outputs</b>                | 2 x 6: USB1 / USB2 [CH 1- 4 ; CH A - D]  |
| <b>Phono Inputs</b>               | 4 x RCA: CH 1- 4<br>LN/PH Switch for DVS   |
| <b>Earth Ground Terminals</b>     | x 2  |
| <b>Line Inputs</b>                | 4 x RCA [CH 1- 4]<br>4 x 1/4" TRS [RTN A - D] Mono/Stereo  |
| <b>Mic Input</b>                  | 2 x XLR [MIC A / MIC B]  |
| <b>MST 1 Output</b>               | 1 x XLR [Balanced]   |
| <b>MASTER INSERT</b>              | 2 x 1/4" TRS [Balanced SEND / Un-balanced RETURN]  |
| <b>MST 2 Output</b>               | 1 x 1/4" TRS [Balanced]  |
| <b>BOOTH Output</b>               | 1 x 1/4" TRS [Balanced]  |
| <b>RECORD Output</b>              | 1 x RCA [Un-balanced]  |
| <b>Send/Return I/O</b>            | 2 x 1/4" TRS [SND1 / SND2] Mono/Stereo<br>4 x 1/4" TRS [RTN A - D] Mono/Stereo<br>1 x LN/Hi-Z Switch [SND 1 / RTN A]   |
| <b>Aux Sends</b>                  | 2 x CH 1- 4 + CH A, CH B [SEND1 selectable Pre/Post]   |
| <b>X-Link</b>                     | 1 x RJ45 Ethernet  |
| <b>Filters</b>                    | 2 x Stereo analogue Voltage Controlled Filters<br>HPF / BPF / LPF Response Select ; ON/OFF [soft switched]<br>Adjustable FREQ / RES / CRUNCH [Controlled Harmonic Signal Distortion]<br>Assignable CH 1- 4, CH A, CH B |
| <b>Channel Faders</b>             | 60mm linear Voltage Controlled Amplifier [CH1 - 4, user replaceable]   |
| <b>Chanel Meters</b>              | 9 Segment LED  |
| <b>Channel Fader Curve</b>        | 3 Types  |
| <b>X-Fader</b>                    | innoFADER MINI standard ; 45mm linear VCA [user replaceable]   |
| <b>X-Fader Curve Settings</b>     | 3 Types  |
| <b>MIDI Assignable</b>            | Yes: MIDI CC ; MIDI Note ON/OFF  |
| <b>MIDI Out</b>                   | USB 1 / USB2 ; 1 x 5-pin DIN ; X:Link  |
| <b>MIDI In</b>                    | USB 1 / USB2 [CUE ; ON/OFF ; MUTE]   |
| <b>Power Supply</b>               | Internal switch mode power unit [SMPS] with auto sensing mains input   |
| <b>AC Mains</b>                   | 100 to 240V AC ; 50/60Hz<br>Consumption 45W max<br>Rear panel mounted ON/OFF switch  |
| <b>Mains Adaptor</b>              | 3 pin IEC socket with cable clamp. Molded AC plug [supplied]   |