Focusrite ISA Two Technical Specifications

Front panel, per channel:	Rear panel, per channel:
1/4" instrument input	XLR-F mic inputs
Variable input impedance - Low, ISA 110, Medium, High	1/4" TRS line inputs
Input selection - Mic, Line, Instrument	1/4" TRS Sends
0 - 30 dB/30 - 60 dB gain switch	1/4" TRS Returns
Phantom power switch	XLR-M line output
Phase invert switch	Single peak meter calibration dial
0 - 60 dB gain in 10 dB steps	Single IEC power socket
0 - +20 dB continuously variable trim	
Variable high-pass filter with on/off switch	
Insert point on/off switch	
Eight-LED user-calibrated level meters	
Single power switch	

Measured Performance		
Maximum Input and Output Levels		
Maximum Output Level	+24 dBu with a THD+N < 0.01% at 1kHz measured with 150 Ω source impedance and 22Hz/22kHz band-pass filter	
Maximum Microphone Transformer Input Level	+7 dBu with a THD+N < 0.7% at 1kHz measured at 0 dB of gain with 150 Ω source impedance and 22Hz/22kHz band-pass filter	
Mic Input Response		
Gain range	0 dB to +60 dB in 10 dB steps, plus 0 dB to +20 dB continuously variable trim	
Input Impedance	Switched Impedance setting	Low = 600 Ω
	Equivalent Input Impedance at 1 kHz	ISA 110 = 1.4 kΩ
		Med = 2.4 kΩ
		High = 6.8 kΩ
EIN (Equivalent Input Noise)	Measured at 60 dB of gain with 150 Ω source impedance and 22 Hz-22 kHz band pass filter	-127 dB
Noise	Noise at output with unity gain (0 dB) and 22 Hz-22 kHz band pas	-97 dBu
Signal-to-Noise Ratio	Measured with 150 Ω source impedance and 22 Hz-22 kHz band pass filter	121 dB relative to max output +24 dBu
Total Harmonic Distortion + Noise	Measured with a -20 dBu input signal at +30 dB of gain and with a 22 Hz-22 kHz band pass filter	< 0.0007% at 1 kHz
Frequency Response	At minimum gain (0 dB)	-0.5 dB at 10 Hz, -1 dB at 135 kHz, relative to 1 kHz
	At +60 dB gain	-6 dB at 10 Hz, -1 dB at 115 kHz, relative to 1 kHz
CMRR (Common Mode Rejection Ratio)	-94 dB for mic input at 60 Hz for max. output = +24 dBu	
	-91 dB for mic input at 10 kHz for max. output = +24 dBu	
Crosstalk Channel to Channel	Mic input, with I/P = 0 dBu, gain = 0 dB @ 1 kHz input to channel A, channel B output = -85 dB	
Line Input Response		
Gain Range	-20 dB to +10 dB in 10 dB steps, plus 0 dB to +20 dB continuously variable trim	
Input Impedance	10 kΩ from 10 Hz to 200 kHz	
Noise	Noise at main output with gain at unity (0 dB) measured with 50 Ω source impedance and a 22Hz - 22 kHz band pass filter	-97 dBu
Signal-to-Noise Ratio	Measured with 50 Ω source impedance and a 22 Hz-22 kHz band pass filter	121 dB relative to max output +24 dBu
Total Harmonic Distortion + Noise	Measured with a 0 dBu input signal, +10 dB of gain and a 22 Hz-22 kHz band pass filter	< 0.002% at 1 kHz
Frequency Response	At unity gain (0 dB)	-0.3 dB at 10 Hz, -1 dB at 80 kHz, relative to 1 kHz
Crosstalk Channel to Channel	Line input, with I/P = 0 dBu, gain = 0dB @ 1 kHz input to channel A	Channel B output = -91 dB
Instrument Input Response		
Gain Range	+10 dB to +40 dB continuously variable trim	
Input Impedance	> 2 MΩ	
Noise	>Measured with 22 Hz-22 kHz band pass filter	Minimum gain (+10 dB) = -95 dBu
Frequency Response	At minimum gain (+10 dB)	-0.1 dB at 10 Hz, -1 dB at 115 kHz, relative to 1 kHz
	At maximum gain (+40 dB)	-2.5 dB at 10 Hz, -1 dB at 110 kHz, relative to 1 kHz
High-Pass Filter		
Roll-Off	18 dB per octave (3 pole filter)	
Frequency Range	Continuously variable from 16 Hz to 420 Hz (-3 dB)	
Weight and Dimensions		
W x D x H	480 mm x 280 mm x 44 mm	
Weight	3.7 kg	