

PC-2XR Pro-to-consumer isolator

- Converts +4 dB balanced signals to -10 dB unbalanced
- Eliminates hum and buzz caused by ground loops
- Ruler flat frequency response from 10 Hz to 140 kHz
- Plug and play easy to use, no power required

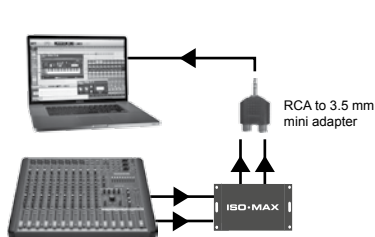


The Iso•Max PC-2XR is a two channel pro-to-consumer isolator that is used to convert a +4 dBu line-level device to -10 dBV for consumer-level signals such as connecting the balanced output from a mixing desk to the unbalanced input of a hand-held video recorder or lap-top computer.

The design begins with a rugged flanged enclosure that comes standard with gold plated XLR inputs and RCAs plus a removable screw-down barrier strip for easy installation in NEMA enclosures and 19" racks. Plug and play easy to use, this passive interface does not require any power to work. Inside are two Jensen high performance transformers that are able to withstand signal levels to +21 dB at 20 Hz without discernible distortion. These provide galvanic isolation between the input and output to eliminate hum and buzz caused by ground loops, rejecting noise by as much as 120 dB. To further optimize the performance, a bottom mounted 8 position 'set & forget' dip switch enables the user to configure the PC-2XR grounding scheme as needed.

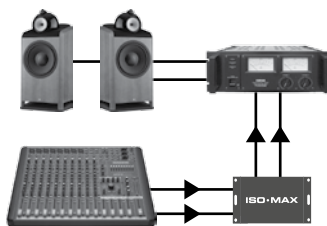
You simply connect the PC-2XR between the source and the input destination and it quietly does the signal matching while delivering exceptional audio at all frequencies without distortion, phase shift or artifact.

Applications



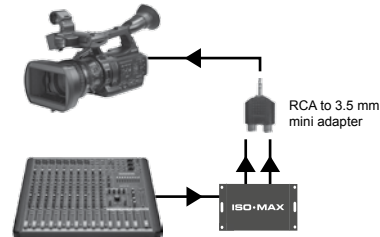
PC-2XR with a laptop

Use the PC-2XR to convert the balanced line level output from your mixing console to the unbalanced input on your laptop or sound card. The PC-2XR will manage the signal while eliminating hum and buzz caused by ground loops.



Pro-balanced signal to hi-fi

The Iso•Max PC-2XR is perfect for situations where you need to send a pro-balanced signal to a stereo hi-fi type input. Simply connect to the XLR-female inputs and use standard RCA cables to feed the hi-fi system.

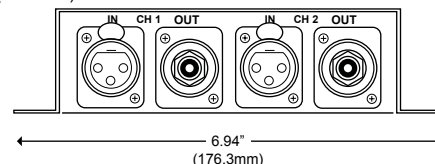


Audio interface for video camera

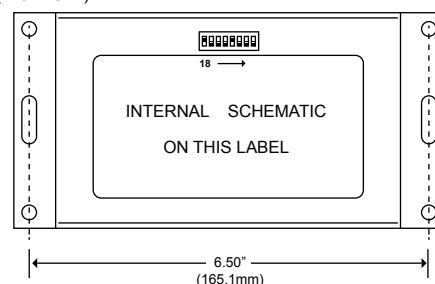
Capturing a live performance is easy using the PC-2XR as the audio interface between the mixing console and your video camera. Simply connect from the console via the balanced XLR inputs and send the unbalanced outputs to your camera using an adaptor cable.

Dimensions

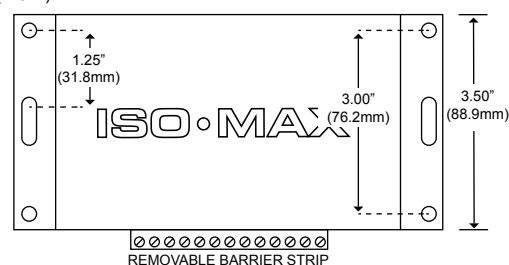
(FRONT)



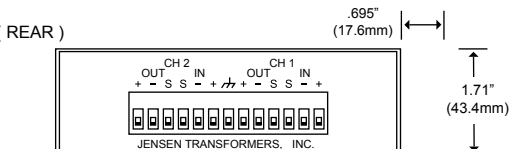
(BOTTOM)



(TOP)

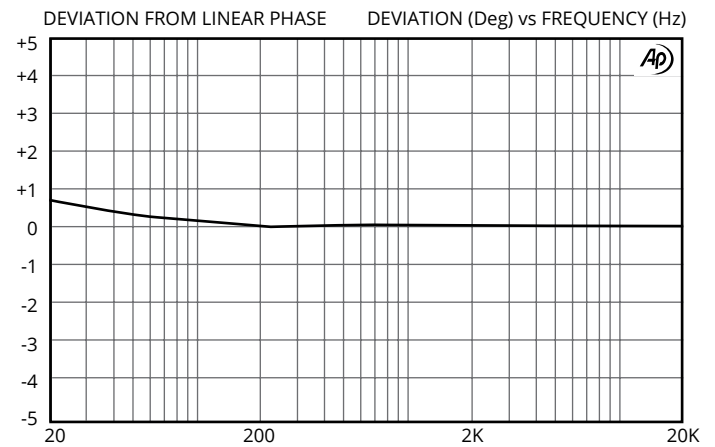
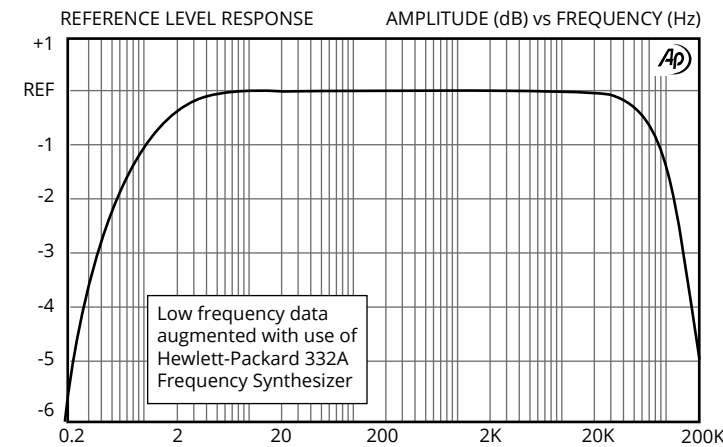
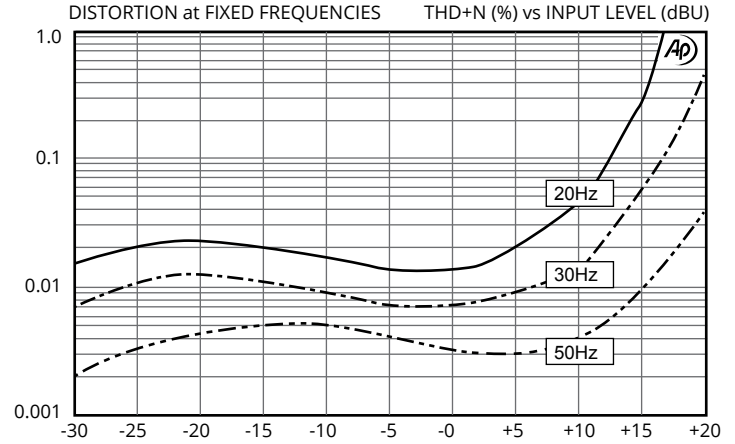
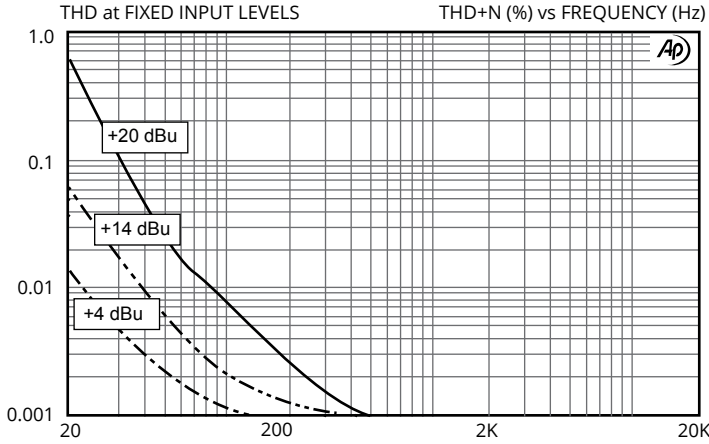


(REAR)



Connector options

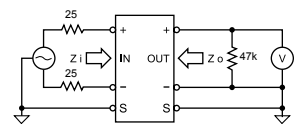
The PC-2XR comes standard with XLR-F inputs and RCA outputs. It is also available special order with choice of XLR, 1/4" TRS, and others. See website for options.



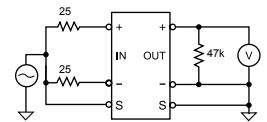
PARAMETER	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM
Input impedance, Z_i	1 kHz, +4 dBu, test circuit 1	32 Ω	33.9 Ω	36 Ω
Voltage gain	1 kHz, +4 dBu, test circuit 1	-14.0 dB	-13.6 dB	
Magnitude response, ref 1 kHz	20 Hz, +4 dBu, test circuit 1	-0.15 dB	-0.04 dB	± 0.0 dB
	20 kHz, +4 dBu, test circuit 1	-0.15 dB	-0.03 dB	+0.1 dB
Deviation from linear phase (DLP)	20 Hz to 20 kHz, +4 dBu, test circuit 1		+0.6/-0.1°	$\pm 2.0^\circ$
Distortion (THD)	1 kHz, +4 dBu, test circuit 1		<0.001%	
	20 Hz, +4 dBu, test circuit 1		0.015%	0.05%
Maximum 20 Hz input level	1% THD, test circuit 1	+19 dBu	+21 dBu	
Common mode rejection ratio (CMRR) 50 Ω balanced / 600 Ω unbalanced source	60 Hz, test circuit 2 / 3		120 dB / 90 dB	
	3 kHz, test circuit 2 / 3	70 dB	85 dB / 55 dB	
Allowable source impedance	(output impedance of device driving the ISO-MAX input)	0 Ω	600 Ω	2 k Ω
Allowable load impedance	(input impedance of device loading the ISO-MAX output)	5 k Ω	47 k Ω	∞
Allowable load capacitance	(cable & input capacitance loading the ISO-MAX output)	0	150 pF	450 pF
Output impedance, Z_o	1 kHz, test circuit 1		225 Ω	
Optimal cable length	input		No limitations	
	output		1 m (3')	6 m (20')
Temperature range	operation or storage	0°C		70°C
Input to Output Voltage Difference*	any input to any output shield or any shield to case, 60 Hz			24 V RMS 34 V peak

All levels are input unless noted

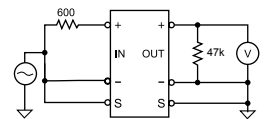
Test Circuit 1:



Test Circuit 2:



Test Circuit 3:



All minimum and maximum specifications are guaranteed. Unless noted otherwise, all specifications apply at 25°C. Specifications subject to change without notice. All information herein is believed to be accurate and reliable, however no responsibility is assumed for its use nor for any infringements of patents which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Jensen Transformers, Inc.

* IMPORTANT NOTE: THIS PRODUCT IS NOT INTENDED FOR USE IN CIRCUMSTANCES WHERE THE DC OR PEAK AC VOLTAGE BETWEEN INPUT AND OUTPUT CONNECTIONS EXCEEDS 34 VOLTS OR WHERE ITS FAILURE COULD CAUSE INJURY OR DEATH.