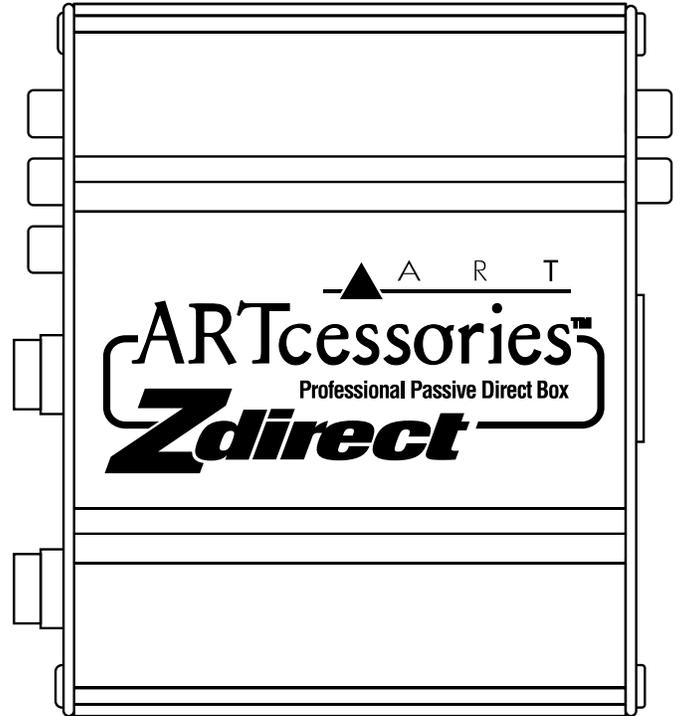


# ARTcessories™

Creative audio solutions in cool little boxes.

**February 2004**

## Zdirect Professional Passive Direct Box



The Zdirect is a high quality totally passive interface that lets you connect instrument, line, or speaker level signals to a mixer or other balanced input thru a high performance audio isolation transformer. The high impedance single-ended 1/4" input is converted by the transformer into an isolated balanced low impedance signal source. The Zdirect's audio transformer has an extremely flat and wide frequency response and can handle high signal levels while still maintaining an isolated balanced low impedance output. This gives the Zdirect a very clean and neutral sound with a wide variety of signal sources and over long signal runs in high noise environments.

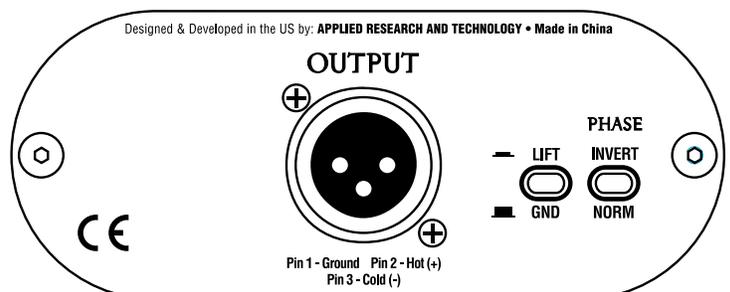
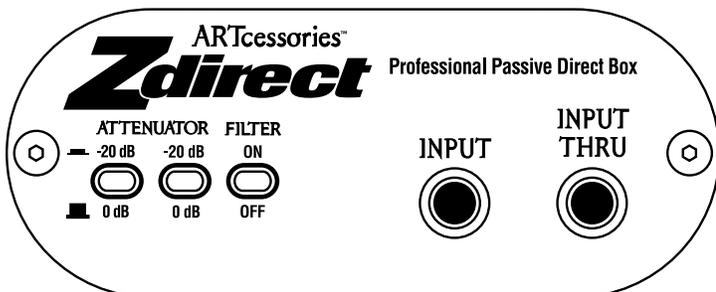
The Input Attenuator switches allow for a wide range of signal levels and the Input Thru jack allows for tapping off of your signal chain. The Ground Lift switch lets you totally separate the input and output signal grounds, when appropriate, to isolate two systems, thereby reducing hum and ground-loop noise.

What further sets the Zdirect apart from other "DI" boxes are its extended features and versatility. We have added a switchable low pass Filter that cuts out all very high frequency interference. This Bessel filter on the output is placed out of the audio range and is primarily intended to reduce radio frequency interference before it gets into the main system. The filter is also very effective in reducing any digital computer noise artifacts when using the Zdirect as an interface between a computer based audio workstation and your monitors. The Phase Invert switch, while not normally included with your run of the mill D.I. box, has been added to allow you to switch signal polarity right at the source. This feature is especially handy when you are combining a direct tap with a microphone feed in the mix.

The compact black anodized all aluminum case and it's passive design allow the Zdirect to provide years of trouble free service in Live Sound, Permanent/Fixed Install, D.J., and virtually any PA application. It's full feature set, rugged construction, and high-end specifications make the Zdirect the obvious choice.

### Specifications:

Frequency Response:	10Hz -50kHz, +/- .5dB @ +4dBu
THD:	.01% Typical @ 1kHz, +18dBu <.05% @ 100Hz, +18dBu
Input Connections:	1/4" TRS unbalanced, 50k Ohm
Output Connection:	XLR male, 600 Ohm
Filter Type/Response:	Switchable, Low Pass, -3dB @ 30kHz
Input Attenuation:	Switchable, (0dB, -20dB, -40dB)
Output Phase:	Switchable, Normal/Invert
Ground Lift:	Switchable, fully isolates inputs from chassis and output.
Dimensions:	1.75"H x 4.2"W x 3.5"D (44.5mm x 107mm x 89mm)
Weight:	.75 lbs. (.34kg)



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## Xdirect Professional Active Direct Box

The Xdirect is a high quality interface that lets you connect instrument, line, or speaker level signals to a mixer or other balanced input. The high impedance single-ended 1/4" and XLR inputs are buffered and converted, by very low noise active electronics, into an isolated balanced low impedance signal source. The Xdirect has an extremely flat and wide frequency response and can handle high signal levels while still maintaining an isolated balanced low impedance output. This gives the Xdirect a very clean and neutral sound with a wide variety of signal sources and over long signal runs in high noise environments.

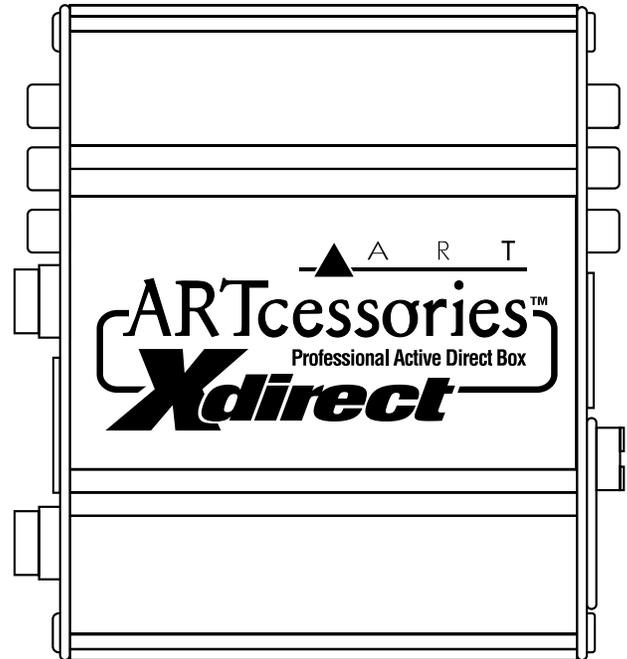
The Input Attenuator switches allow for a wide range of signal levels and the Input Link jack allows for tapping off of your signal chain. The Ground Lift switch lets you totally separate the input and output signal grounds, when appropriate, to isolate two systems, thereby reducing hum and ground-loop noise.

What further sets the Xdirect apart from other "Active DI" boxes are its extended features and versatility. We have added a switchable low pass Filter that cuts out all very high frequency interference. This Bessel filter on the input is placed out of the audio range and is primarily intended to reduce radio frequency interference before it gets into the main system. The filter is also very effective in reducing any digital computer noise artifacts when using the Xdirect as an interface between a computer based audio workstation and your monitors.

A Phase Invert switch, while not normally included with your run of the mill D.I. box, has been added to allow you to switch signal polarity right at the source. This feature is especially handy when you are combining a direct tap with a microphone feed in the mix.

The Xdirects active circuitry is powered by an internal 9volt battery, when external power is not available. In this mode it draws 3.5 ma which should give you more than 250 hours of operation off of a new battery. If phantom power is available, then the Xdirect will automatically draw its power from the external source. The Battery on/off switch lights dim when the unit is running off of the battery, lights brightly when it is running off of phantom power, and is off when the unit is inactive.

The compact black anodized all aluminum case and it's flexible power design allow the Xdirect to provide years of trouble free service in Live Sound, Permanent/Fixed Install, D.J., and virtually any PA application. It's full feature set, rugged construction, and high-end specifications make the Xdirect the obvious choice whenever you have to interface high impedance sources with a low noise balanced system.



### Specifications:

Frequency Response:	10Hz –100kHz, +/-5dB @ +0dBu
Maximum Output Level:	+6dBu (battery powered) +14dBu (phantom powered) +4/+24/+44dBu
Maximum Input Level:	>100dB typical
Dynamic Range:	>100dB typical
Input Connections:	1/4" TRS and XLR female unbalanced, 470k Ohm
Output Connection:	XLR male balanced, <600 Ohm
THD:	<.05% Typical
Filter Type/Response:	Switchable, Low Pass, -3dB @ 30kHz
Input Attenuation:	Switchable, (0dB, -20dB, -40dB)
Output Phase:	Switchable, Normal/Invert
Ground Lift:	Switchable, fully isolates inputs from chassis and output.
Power Requirements:	9V @3.5ma (internal battery) or 18VDC–48VDC @9.5ma (phantom power)
Dimensions:	1.75"H x 4.2"W x 3.5"D (44.5mm x 107mm x 89mm)
Weight:	.75 lbs. (.34kg)

