
Specifications

Input Level	MIC setting:	-35 dBu ideal -6 dBu max
	LINE setting:	0 dBu ideal +36 dBu max
Output Level	nominal MIC levels	
Frequency Response	20 Hz to 20 KHz (+/- 3 dB)	
Case	Powder coated aluminum	
Dimensions	5.25" L x 2.75" W x 1.25" H	
Weight	12 oz	

Warranty

Product is warranted for one full year from date of purchase for parts and labor.

In the event of a problem please contact us first before returning the unit for repair or replacement.

BeachTek Inc.

2120 Queen Street East, Suite 300
Toronto, Ontario M4E 1E2

tel (416) 690-9457 • fax (416) 690-0866

email adapter@beachtek.com

web www.beachtek.com

BeachTek

Operating Instructions for the DXA-4C Adapter

- Before using this high quality device, please read this operating manual thoroughly to obtain the highest performance.
- Please contact us if you have any problems or questions.

Description

The BeachTek DXA-4C is a two channel, transformer balanced XLR adapter for the Canon XL1 and XL1s camcorders. The DXA-4C is designed to easily attach balanced or unbalanced type microphones to your camcorder. The adapter gives you all the benefits of using balanced audio devices for clean audio as well as control over the signal levels to ensure the best possible sound recording.

The DXA-4C is very easy to set up and use. The rugged construction ensures years of use and the compact size fits neatly under the camcorder - can also be mounted to any standard tripod. Since the adapter is a passive device, it is completely silent and the premium transformers ensure superb audio.

Features

Inputs

- Two transformer balanced XLR connectors
- One unbalanced mini-jack – ideal for wireless microphones

Output

- Unbalanced RCA phono plugs
- Selectable MONO or STEREO

Trim Controls

- Adjusts signal level on each channel from unity to no output

MIC / LINE Switches

- Switchable input between MIC or LINE levels for versatility

Balancing Transformers

- Premium wide-bandwidth transformers for superb audio
- Shielded in a custom deep drawn mu-metal cover for very quiet operation

Product Description

The DXA-4C Dual XLR Adapter allows you to attach two balanced XLR audio devices to your camcorder. Each input signal is sent to a MIC/LINE switch to allow you to set the proper level, then to an audio control to adjust attenuation. The balanced input signal is then converted to an unbalanced output through an impedance matching transformer. Finally, the output signal is sent through an attached shielded cable terminating in stereo phono jacks that connect to the camcorder's "AUDIO 1" or "AUDIO 2" inputs.

The auxiliary input allows you to attach wireless microphones that use standard mini-plug connectors. This signal is sent to the right channel.

A switch lets you select between stereo or mono operation. For stereo operation, the adapter sends the left input signal to the left channel and the right input to the right channel. The two channels are never mixed allowing you to access both channels during editing for maximum versatility. For mono operation, both channels are mixed together - ideal when using only one audio source to give you two channel recording.

We recommend the use of sensitive condenser type microphones for the best results. Dynamic microphones usually do not have sufficient output levels and may result in an excessive amount of hiss from the high level of amplification necessary by the camera's audio preamps. Microphones with a sensitivity rating of greater than -40 dBV are ideal.

Operation

Mount the DXA-4C securely to the tripod bushing on the under side of your camcorder. You can also mount the adapter to any standard tripod. You can record audio using 2 channel mode (16 bit or 12 bit audio) or 4 channel mode (12 bit audio). The 16 bit audio setting will give you near CD quality sound.

TWO CHANNEL RECORDING

This will record two channel audio to stereo track 1 from the DXA-4C inputs. The camcorder's microphone will be disabled.

- 1.) Attach the DXA-4C output cables to AUDIO 1 at the rear of the camcorder.
- 2.) Set the INPUT SELECT switch of the AUDIO 1/MIC controls to AUDIO 1.
- 3.) Set the REC LEVEL switch of the AUDIO 1/MIC controls to either A for auto or M for manual.
- 4.) Set the AUDIO MODE on the camcorder menu to either 12 bit or 16 bit ST-1 as desired.
- 5.) **Set the AUDIO 1 IN to MIC on the camcorder menu.**

- 6.) Set the MIC/LINE switch on the DXA-4C to MIC when attaching microphones; set to LINE when attaching high level sources such as mixing boards, CD players, etc.
- 7.) Set the STEREO/MONO switch on the adapter to the desired setting. Normally you would use the STEREO position when recording from two audio sources and MONO when using a single sound source. When in MONO mode, be sure to keep the trim control for the unused channel on the adapter at maximum to reduce the loading effect on the working channel.
- 8.) Initially set both DXA-4C trim controls at maximum for no attenuation. If you have set the camcorder to manual recording mode, use the camera's AUDIO 1/MIC controls to adjust the audio to the desired level (ideally around the -12 dB mark on the camera VU meter). This will give you the best signal to noise ratio for the highest audio quality. You may have to attenuate the input signals using the trim controls on the DXA-4C if the input levels are too high. This eliminates distortion that can be caused by overdriving the camcorder's audio preamps.

FOUR CHANNEL RECORDING

This will record two channel audio to stereo track 2 from the DXA-4C inputs. The camcorder's microphone will record audio to stereo track 1 at the same time. Alternatively, you can use a second adapter connected to AUDIO 1 to record from 4 discreet XLR inputs. You can switch between monitoring the audio of either track 1 or track 2 by pressing the AUDIO MONITOR button on the camcorder.

- 1.) Attach the DXA-4C cables to AUDIO 2 on the side of the camcorder.
- 2.) Set the REC LEVEL switch of the AUDIO 2 controls to either A for auto or M for manual as desired.
- 3.) Set the AUDIO MODE on the camcorder menu to 12 bit ST-1,2.
- 4.) **Set the AUDIO 2 IN to MIC on the camcorder menu.**
- 5.) Recording to stereo track 2 is the same as steps 6 to 8 above except that you will use the AUDIO 2 level controls instead.

Record

You are now ready to record your audio. With the use of a quality professional microphone, you should be able to get very clean audio for superb sound. Be sure to monitor the sound using a good pair of headphones.