

Operating Manual

DXA-CINE

Mini-plug Audio Adapter for Cinema Cameras



This operating manual explains the adapter function settings and how to use the adapter to record audio into the camera.



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Thank You for Purchasing a Beachtek Product

Congratulations on purchasing the DXA-CINE from the makers of the world's most popular audio adapters for DSLR cameras and camcorders.

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

Description

The Beachtek DXA-CINE is a compact two-channel, active audio adapter with built-in preamplifiers for attaching external mini-plug microphones and wireless gear to the popular cinema cameras like the ARRI ALEXA Mini and RED DSCM2 cameras.

The DXA-CINE uses exceptionally low noise, wide bandwidth preamplifiers for superb audio. This allows you to record high quality audio directly to the camera which will always be in sync with the video.

The inputs are two mono and one stereo unbalanced mini-jack inputs with 3.5 volt plug-in power.

Tri-color level indicators make it easy to verify the proper signal levels at a glance, while the level controls allow you to adjust the output signal for optimum recording. The phone jack lets you monitor the audio from the adapter during recording, or camera during playback.

The adapter can be mounted in various ways to the camera cage via the 1/4" / 20 threaded inserts or the brass mounting foot.

Contents

Supplied Accessories.....	1
Quick Setup Guide.....	2
Adapter Controls and Connectors.....	3
Playback Monitoring.....	6
Audio Bracketing.....	6
Features.....	7
Specifications.....	8
Warranty Information.....	9

Supplied Accessories

- One 3.5mm to 3.5mm SC35 cables
- Brass mounting foot with knurled wheel and attachment bolt
- Allen key

Quick Setup Guide

- 1) Ensure the POWER switch is set to OFF before you begin.
- 2) Mount the DXA-CINE to an appropriate place on your rig via the 1/4"/20 threaded inserts or the included shoe mount.
- 3) Connect external 11-18 volt power to the 2-pin Lemo connector.
- 4) For use on the RED DSCM2 camera, connect the supplied SC35 cable from the 3.5mm OUT jack on the adapter to the mic input jack on the DSCM2 module of the camera.

For use with the ARRI ALEXA Mini, connect the Beachtek BT-LEMO cable (not supplied) from the 5-pin balanced XLR LINE OUT on the DXA-CINE to the balanced 5-pin Lemo mic input on the camera.

- 5) Connect your microphones to the adapter inputs.
- 6) Set the GAIN switches to HI for 60dB gain or LO for 40dB gain.
- 7) Set the MONITOR switch to OUT.
- 8) Set the M/S switch to M for mono when using one channel or to S for stereo when using two channels.
- 9) Turn the adapter PWR switch on. The power LED should be green.
- 10) Set the camera audio to 0dB gain.
- 11) Adjust the LEFT and RIGHT level controls for each channel so the level indicators flash yellow when capturing audio. You may have to fine tune the recording level on the camera so that the yellow LED activates with a -20dB reading on the cameras VU meter.
- 12) Plug your headphones into the PHONE jack on the adapter and adjust the VOLUME control to a comfortable level. Ensure that you hear audio on both channels from the connected microphones.

Do a test recording and playback on the camera to ensure that the captured audio is satisfactory.

Adapter Connectors and Controls

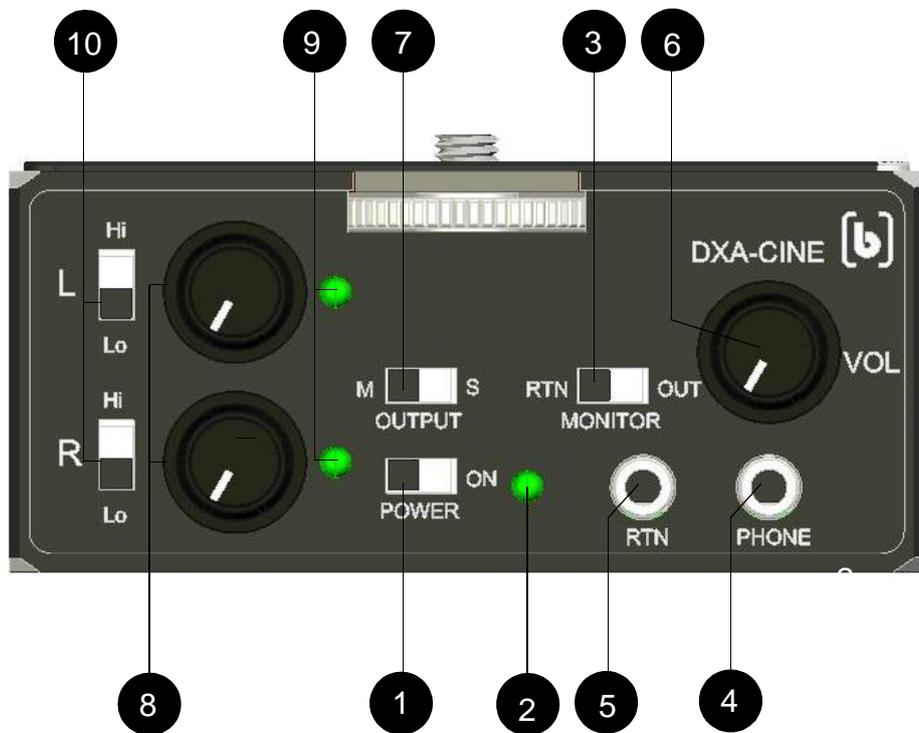
Front Panel

- 1 POWER Switch**
Main power switch for adapter
- 2 POWER LED**
Green indicates power on and good battery condition
Red indicates low battery voltage
- 3 MONITOR Switch**
OUT selects headphone monitoring from either the microphones during recording, or RTN for playback audio from the camera
- 4 PHONE**
Headphone jack to monitor the audio from microphones or camera
- 5 RTN Jack**
Input jack for connecting the loopback audio from the camera
- 6 Vol Control**
Adjusts the headphone volume level
- 7 OUTPUT Switch**
Selects mono or stereo output mode
- 8 LEFT and RIGHT Controls**
Individual trim controls to adjust output levels on each channel

- 9 **Level Indicator LEDs**
 Green -40dBu to -16dBu (low)
 Yellow -16dBu to +4dBu (normal)
 Red +4dBu (over)

- 10 **Gain Switch**
 Selects LO for +40dB or HI for +60dB gain

Front Control Panel



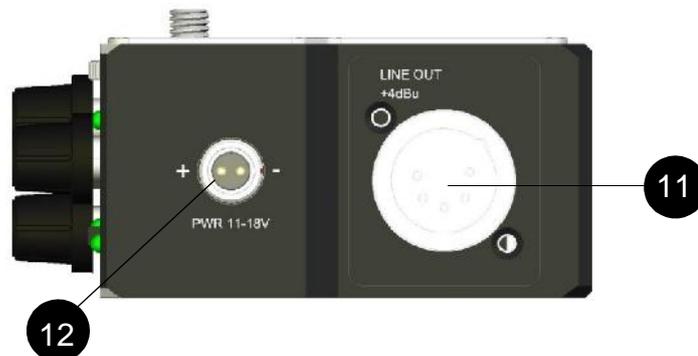
Side XLR Panel

- 11 **LINE OUT**
+4dBu balanced 5-pin XLR Output
- 12 **PWR 11-18V**
2-pin Lemo for external power in

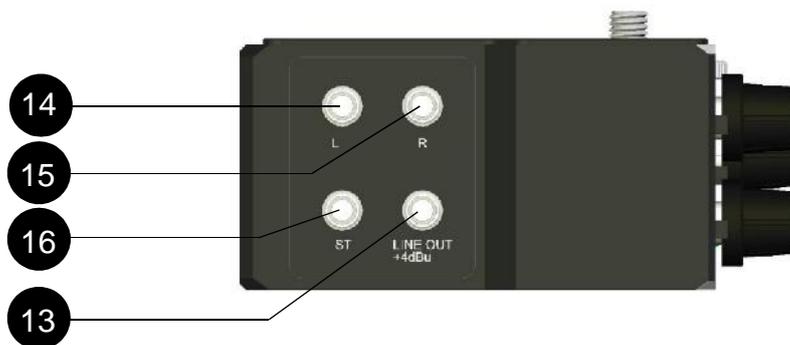
Side Mini-Jack Panel

- 13 **LINE OUT**
+4dBu stereo 3.5mm unbalanced output
- 14 **L**
Left unbalanced 3.5mm mic input. Provides 3.5 volt plug-in power
- 15 **R**
Right unbalanced 3.5mm mic input. Provides 3.5 volt plug-in power
- 16 **ST**
Stereo unbalanced 3.5mm mic input. Provides 3.5 volt plug-in power

Side XLR Panel



Side Mini-Jack Panel



Playback Monitoring

To monitor audio from the camera during playback you will need to use another SC35 cable (not included). Connect this cable between the phone out on the camera or external monitor (if it has this feature) and the RTN Jack on the adapter. Set the MONITOR switch to RTN.

You can now play back the clip and hear the audio through your headphones connected to PHONE output on the adapter.

Audio Bracketing

Audio Bracketing is a simply a technique of setting a secondary channel at a lower level to use as a backup in case the primary channel gets blown out from an overly hot signal. This can be used anytime a single mono mic is being used with the adapter. It is very easy to do:

- 1) Plug the mic into any input which will be the primary channel.
- 2) Set the OUTPUT switch to M for MONO.
- 3) Adjust the primary channel level as usual.
- 4) Adjust the other secondary channel at a somewhat lower level between 10 and 20dB.

Features

Inputs

- Two unbalanced 3.5mm jacks with plug-in power
- One stereo unbalanced 3.5mm jack with plug-in power
- RTN jack for playback monitoring

Output

- +4dBu balanced 5-pin XLR
- +4dBu unbalanced stereo 3.5mm jack

Headphone Monitor

- Built-in headphone amplifier with volume control
- 3.5mm phone jack

Level Indicators

- Low/Good/Over level indicators

Gain Switch

- 40dB or 60dB gain settings to match any microphone

Level Controls

- Adjusts output level on each channel

Low Noise Preamplifiers

- Exceptionally low-noise circuitry for superb audio
- Wide-bandwidth for full rich sound

Playback Monitor

- Provides an easy way to monitor audio on playback

Case

- Sturdy extruded aluminum enclosure with three ¼" / 20 threaded inserts for various mounting options.

Specifications

Maximum Input Levels	LO gain -15dBu HI gain -35dBu
Output Level	+4dBu when level indicators change to red
Output Clipping Level	+25dBu (XLR), +21dBu (3.5mm)
Frequency Response	20Hz to 20kHz (+/- 0.5dB)
THD+N	Lo Gain: 0.013% (+4dBu output, 1kHz) Hi Gain: 0.08% (+4dBu output, 1kHz)
Dynamic Range	100dB
Gain	LO +40dB HI +60dB
Plug-in Power	3.5 volts on all mini-jack mic inputs
Level Indicators	Green: -40dBu to -16dBu (low) Yellow: -16dBu to +4dBu (normal) Red: +4dBu (over)
External Power	11-18 volt via 2-pin Lemo Pin 1 = (-), Pin 2 = (+)
Dimensions	3.54" x 3" x 1.57" (L x W x H) (90 mm x 76 mm x 40 mm)
Weight	10.2 oz. (0.29 kg)



This device complies with the FCC Rules, Part 15, Class B

Warranty Information

Limited Two Year Warranty

This warranty covers any defects or malfunction in your new BeachTek adapter for two years from date of purchase.

BeachTek will replace or repair any defective or malfunctioning adapter, within the warranty period, at no charge. The warranty does not cover damage resulting from accident, alteration, misuse or abuse. The device must be sent to our service center at your expense.

Should you require service please contact us first before returning the unit to us. Return instructions can be found on our website at www.beachtek.com on the Support page.

Upon receiving the returned adapter it will be inspected and replaced or repaired if found defective. The unit will be shipped back to you within five business days at our expense.

Contact Information

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