Operating Manual

MCC-2
Audio Adapter/Bracket

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

the quiet connection

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Thank You for Purchasing a Beachtek Product

- 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 MCC-2 is a two-channel, audio adapter/bracket combo that lets you mount, connect and control 2 audio devices for camcorders or DSLR cameras. This adapter is designed to easily attach wireless mics and small, self powered, camera mounted microphones such as the popular Rode Videomics that have unbalanced mini-plug connectors. Since the adapter is a passive device, it is completely noise-free for superb audio. The adapter is also virtually unclipable and offers an extremely wide dynamic range. No power or batteries are required to operate the adapter.

The MCC-2 is very easy to set up and use. The dual trim controls allow you to adjust the signal levels independently and the output switch lets you select mono or stereo operation. The rugged extruded aluminum chassis has 3 integrated mounting shoes to securely attach the wireless mics and shotguns. Its compact size fits neatly on top of any camcorder or DSLR camera that has a standard mounting shoe.

Features

Inputs
- Two mono mini-jack connectors
- One stereo mini-jack connector

Output
- Unbalanced stereo mini-jack with a detachable output cable
- Selectable MONO or STEREO

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

Chassis
- Extruded aluminum chassis
- Three integrated mounting shoes
- Mounts to camera hot shoe

Compatible Devices

Microphones

Note, we recommend the use of sensitive condenser type microphones for the best results. Microphones with low sensitivity will usually 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 preamplifiers. Microphones with a sensitivity rating of greater than -35 dBV are ideal.

The ideal mics are the Rode VideoMic Pro and Stereo VideoMic Pro. Use the +20dB boost setting on these mics.

Most wireless mics work well except for some Sony models which have very low output levels. The Sennheiser EW100 system is ideal.

Cameras

Any camcorder or DSLR camera that has a mic jack and preferably a headphone jack to monitor the audio. Note that many Sony camcorders do not have a standard hot shoe and will not fit the MCC-2.

Quick Setup Guide

1) Mount the MCC-2 to the camera shoe and lock down the mounting foot.

2) Connect the supplied output cable from the OUT jack on the adapter to the MIC input on the camera. If the camera has a MIC/LINE input selector, set it to MIC.

3) Set the M/S switch to M for mono when using one channel or to S for stereo when using two channels.

4) Initially set the LEFT and RIGHT trim controls fully clockwise for no attenuation. If one channel is not being used, leave that channel's trim control fully clockwise.

5) Mount your shotgun mic and or wireless to the integrated shoes on the top and sides of the adapter.

6) Connect mono mics to the L and or R inputs on the adapter. Connect stereo mics to the STEREO input

7) Plug your headphones into the PHONES jack on the camera to monitor the audio. Be sure that you hear audio on both channels from the connected devices.

8) Before starting to record, adjust the LEFT and RIGHT trim controls to give you an average reading of -12dB on the VU meter if the camera has this feature. If your camera does not have a VU meter, you should use your headphones as a guide in setting the proper levels. Reduce the levels if you hear any distortion through the headphones.

9) You are now ready to begin recording.

Control Panel

Connector Panel

Adapter Controls and Connectors

1) M/S Switch

The M (MONO) setting mixes both channels together and sends the audio to both the right and left channels - which is ideal when only one microphone is being used. Be sure to keep the trim control for the unused channel fully clockwise (yes, clockwise) so that it does not interfere with the working channel. The S (STEREO) setting keeps both channels separated and should normally be used when two mono microphones or a stereo microphone are connected. This provides two discrete channels of audio.

2) L and R Trim Controls

Each channel has a trim control that attenuates the input signal from unity to no gain. Since the adapter is passive you should normally set the trim controls as high as possible without causing distortion. If necessary, adjust either the left or right trim control to balance both inputs so they are of equal amplitude.

Most camcorders and cameras use an automatic gain control (AGC) to adjust the optimum audio level for recording. If your camcorder has no way of disabling this feature, the adapter can still be used to adjust the input levels but will not override the AGC circuitry.

If your camcorder allows you to switch the AGC off, you can use this option for manual control over the audio levels. For the best signal to noise performance, set the gain on the camera to about 25% of maximum and then adjust the trim controls on the adapter for the proper level. As a guide, the recording levels should be no higher than -12 dBFS (-12 dB below Full Scale).

3) L and R Inputs
    Connect mono mics to these inputs.

4) STEREO Input
    Connect stereo mics to this input

5) OUT Jack
    This jack outputs the mic level signal from the adapter for connection to the camera. Use the supplied output cable to connect to the MIC input on the camera.

Specifications

Input Level   *MIC setting: -35 dBu minimum*

Gain   *Unity*

Frequency Response   *20 Hz to 20 kHz (+/- 0.5 dB)*

Dimensions   *3" x 2" x 2" (L / W / H)*
                                      (76 x 5 x 5 mm)

Weight   *4 oz (0.13 kg)*

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 for an RMA Request before returning the unit. Return instructions can be found on our website at www.beachtek.com under the Support Option.

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.

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