

## CREEK OBH-10 SPECIFICATION

INPUT IMPEDANCE	< 50 k $\Omega$
OUTPUT IMPEDANCE	0 - 50 k $\Omega$
SEPARATION	> 80 dB @ 1kHz
ATTENUATION	0 - 90 dB
NUMBER OF INPUTS	1 Stereo pair
NUMBER OF OUPUTS	1 Stereo pair
RELAY MUTING FACTOR	> 90 dB
POWER SUPPLY REQUIREMENTS	24v @ 60 mA
POWER CONSUMPTION	2W max
DC CONNECTOR TYPE	2.1 mm female DC jack
POWER & MUTE INDICATION	2 colour LED indicator
RECEIVE INDICATION	Flashing LED indicator
SIZE	100 x 130 x 60 mm
	4" x 2.4" x 5"
WEIGHT	420 g, 1 lb

*Creek Audio Ltd reserve the right to change or modify the specification of its products without prior warning.*

*Designed and made in the UK.*

## Creek Audio Ltd

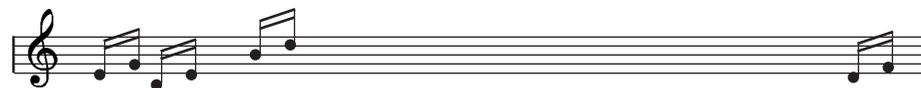


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# Creek OBH-10



## Operating Instructions

Thank you for purchasing the OBH-10 Infra-red remote control module. You are now in possession of a State of the Art product. The functions and operation of the OBH-10 are extremely simple. However, the following notes are provided to explain all aspects of its design and use.

## OVERVIEW

The function of the OBH-10 is to provide volume adjustment to your Hi-Fi system from your armchair, via infra-red remote control.

The unit consists of a passive volume potentiometer, with a motor connected to its control shaft and a two channel relay that can short the signal path to ground to mute it. A microprocessor control circuit can decode infra-red signals transmitted by a separate handset and translate them into commands that will activate the motorised potentiometer and muting relay.

The OBH-10 is purely passive and does not introduce any gain or distortion into the signal path. It is therefore suitable to be inserted into the signal path of any piece of audio visual equipment with a suitable signal level.

## MAINS CONNECTION

When unpacking the module please keep the packing material in a safe place for possible future use.



In the pack there is a separate mains adaptor, suitable for connecting to the mains voltage supply in the country of use. The socket at the end of the fixed cable should be firmly inserted into the connector on the OBH-10 rear panel marked 'DC inlet'.

Remember, do not overload the mains wall socket with too many plugs or adaptors. If in doubt, please contact your supplying dealer or a qualified electrician. The OBH-10 draws less than 2 Watts of power from the mains under all conditions so it can safely be left switched on without increasing your electricity bill significantly.

## **INPUT AND OUTPUT CONNECTION**

The input and output connections are Phono (RCA) or Cinch type. These connections are suitable only for regular unbalanced signals (where the signal wire is normally shielded by an outer braid which is at ground potential). It can be connected to an integrated amplifier in the tape loop or between tape output and tape input (activated by selecting Tape monitor). It can also be fitted in the signal path between a pre-amplifier output and power amplifier input.

The integrated amplifier or pre-amplifier's own volume control should then be pre-set to maximum to allow the OBH-10 to take full control of the volume. Alternatively, if the level is too high, set the amplifier's volume control to the maximum level you require and then only make level adjustments through the OBH-10's volume control. This will ensure a smoother range of adjustment.

It is also possible to fit the OBH-10 between a source component, say a CD player output, and the amplifier's input, thereby remotely controlling only the source component's volume.

## **VOLUME LEVEL**

The volume control, situated on the right hand side of the front panel, is used to alter the relative level of the sound output from the amplifier. It is important to realise that the volume control only acts to reduce, or attenuate, the incoming signal to the power amplifier stage. The maximum power of the amplifier is available only if the level of signal available from the line level equipment is sufficient to drive it to clipping; this will be different from one make to another. The volume control is therefore also used to balance the level from one piece of equipment to another.

If it is found necessary to have the volume control set to a position which is considered to be high, before the desired level of volume is obtained, it does not necessarily mean that the amplifier is having to work hard or "flat-out". Consult your dealer if you feel you need more advice.

Always have the volume control set at minimum (counter-clockwise) when switching your amplifier on and off, to avoid thumps or sudden loud noises.

## **LOCATING THE OBH-10**

The OBH-10 does not need mains power to manually operate the volume. It does, however, need to be powered from its adaptor to operate the volume and mute functions via remote control. The OBH-10 will work best if placed on a suitable table or Hi-Fi equipment cabinet. Should it be necessary to place the OBH-10 on the top of other audio or video equipment, be careful to avoid obstruction of any ventilation slots that could cause overheating, or internal mains transformers that could induce hum pick-up. Do not obstruct the vision of the IR sensor on the front panel.

## **OPERATING THE OBH-10**

The OBH-10 has the ability to change the volume setting manually by moving the control knob on the front of the unit or by pressing the appropriate buttons at the bottom of the Creek amplifier remote control handset. By pointing the remote handset at the OBH-10 and pressing the volume up or down buttons, the motorised potentiometer will move the control knob and flash the status indicator LED.

Pressing the MUTE button on the handset will cause a relay to cut the signal from the OBH-10 and change the LED status indicator to red. To unmute press the mute button again or the volume up button (volume down will not unmute the signal). To unmute the OBH-10 without the handset, remove the power for 10 secs.

You will notice that the remote handset has several other buttons relating to input selection. These buttons are redundant with the OBH-10. They are reserved for operation with other Creek R.C. amplifier products.

## **CAUTION**

Your OBH-10 amplifier is designed to give you years of reliable use. However, it is necessary to take care of your possession, so never overheat it or use a different power supply adaptor, unless it is one recommended by Creek Audio Ltd.

The OBH-10 is designed to comply with the latest European EMC requirements. However, it should be noted that it is not possible to guarantee faultless operation of the equipment if it is used close to the source of high powered radio transmissions, such as can be found in mobile telephones or CB radio etc. Care should also be taken to place it away from the source of mains interference caused by mains transformers in other equipment. Electrical switching noises periodically conducted down the mains supply from domestic or industrial heating systems can sometimes be amplified and present themselves as a click or thump through a hi-fi system.

If you suspect that a fault has developed, do not remove the cover plate; there are no user serviceable parts inside. If you are unfortunate enough to need service work to be carried out on the OBH-10, it should be returned to your dealer for his expert help in the original packing material, if possible.