

Creek OBH-22 SPECIFICATION

Input Impedance	< 20 k
Output Impedance	20 k
Separation	> 80 dB's @ 1kHz
Attenuation	0 - 90 dB's
Inputs	3 Stereo pairs, inc Tape
Outputs	2 Stereo pairs, 1 fixed, 1 variable
Relay Muting Factor	> 90dB's
Power requirements	24v @ 60 mA
Power Consumption	2W max
DC Connector Type	2.1 mm female DC jack
Input & Mute indication	2 LED
Size mm	150 x 100 x 66
inches	6" x 4" x 2 1/2"
Weight	610 g, 1.3 lb

WARRANTY

If within two years of the purchase date your OBH product proves to be defective for any reason other than accident, misuse, neglect, unauthorised modification or fair wear and tear, Creek Audio Ltd will, at its discretion, replace the faulty parts without charge for labour or return carriage within the United Kingdom.

This warranty is valid only within the United Kingdom. and given in addition to statutory rights. Service enquiries outside the United Kingdom. should be addressed first to the supplying dealer and or Creek distributor/importer.

Warranties granted in these countries are entirely at the discretion of the distributor.

Creek OBH 22 Passive Pre-Amplifier



Operating Instructions

Thank you for purchasing the OBH 22 Infra-red remote control passive Pre-Amp.

You are now in possession of a State of the Art product. The functions and operation of the OBH 22 are extremely simple. However, the following notes are provided to explain all aspects of its design and use.

OVERVIEW

The function of the OBH 22 is to provide input selection and volume adjustment to your Hi-Fi system from your armchair, via infra-red remote control. The unit consists of a high quality motorised volume potentiometer, and two stereo relays which select the desired input and tape output, together with a muting relay that can short the signals to ground.

A built-in micro-controller decodes the infra-red signals transmitted by the handset and translates them into commands which activate the motorised potentiometer and the muting and input selection relays. After each operation, the micro-controller turns itself off to avoid any possibility of interfering with the main music signal.

LED's are used to indicate the status and mode of operation.

The OBH 22 is purely passive and does not introduce any gain or distortion into the signal path. It is therefore suitable to be used as a control Pre-Amp, provided the sensitivity of the power amp that is being used is high enough to be driven directly from the source. i.e. CD or Tuner etc.

The volume control can be operated manually at any time, whether the OBH 22 is powered or not, but without power only Line 1 can be utilised.

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MAINS CONNECTION

When unpacking the module please keep the packing material in a safe place for possible future use. In common with all electrical appliances, the OBH 22 requires a power supply. The requirement for the OBH 22 is for 24 Volts DC at 30 milli-Amps current, minimum. A custom Creek power supply (Creek-Uni) has been provided and this must be connected via the DC inlet on the rear panel of the OBH 22.

The power supply which has been provided is a switchable supply with a universal input range of 100 – 240 Volts. The Creek-Uni power supply is supplied with a pack of universal plug fittings to adapt for Europe, U.K. and the Far-east, USA and Australia. Choose the correct fitting for your country of use and simply snap in place. 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-22 draws less than 2 Watts of power from the mains under all conditions so it can safely be left switched on without significantly increasing your electricity bill.

INPUT and OUTPUT CONNECTIONS



Line 1 and 2 are identical. The output from a CD, Tuner, AV or from an OBH 15 or OBH 18 phono pre-amp can be connected to either of them. For tape machines, use the Tape input and output - the tape monitor function will allow recordings to be made and played back. The output from the OBH 22 should be connected to a power amplifier with suitable sensitivity (gain). Remember, the OBH 22 will not increase the signal from input to output.

VOLUME LEVEL

The volume control 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 an amplifier is available only if the level of signal available from line level equipment is sufficient to drive it to clipping, which will be different from one amplifier 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 too hard or "flat-out". Consult your dealer if 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.

POSITIONING OF THE OBH-22

The OBH 22 needs to be powered from its adaptor to operate the volume, input and mute functions via the remote control. It will work best if placed on a suitable hard surface or Hi-Fi equipment cabinet. Should it be necessary to place the OBH 22 on the top of other audio or video equipment, avoid obstructing any ventilation slots that could

cause overheating, or internal mains transformers which might induce hum pick-up. Very heavy signal interconnects may cause the OBH 22 to tip backwards. There are two slots on the bottom that could be used to lock it in position. Do not obstruct the IR sensor on the front panel.

OPERATING THE OBH 22 BY REMOTE CONTROL

The OBH 22 has three line inputs including tape, which can be selected either from the front panel buttons or Creek SRC2 handset which is now supplied with the product. The appropriate LED above each button will indicate which one is selected. Volume level can be adjusted manually from the control knob on the front panel or by using the VOL + or VOL - buttons on the remote handset. As the SRC2 is a system remote control, it is necessary to make sure it has been selected to control amplifier commands, by first pressing the ivory coloured Amp button in the middle.

Pressing the Mute button on the front panel or remote handset will short the signal to ground and the LED indicator will light above the Mute button. To un-mute, press the Mute button again or the volume up button. Pressing the volume down will not un-mute the signal, but it is useful in allowing a lower level to be set before un-muting the signal.

To select the Tape input or to monitor a tape recording press button 'Aux 2' (button 5 on the SRC2). The LED indicator above the Tape button on the OBH 22 will light. Press button 'Aux 2' again to revert to the line input.

The tape button and all other buttons on the SRC2 handset are reserved for other Creek remote controlled products.

CAUTION

Your OBH 22 amplifier is designed to give you years of reliable use. However, it is necessary to take care of your possession, so never overheat and only use the recommended Creek Uni power supply.

The OBH 22 is designed to comply with 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 from domestic or industrial heating systems, conducted periodically down the mains supply, can sometimes be amplified and present themselves as a click or a 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 carried out on the OBH 22, it should be returned to your dealer for his expert help, in the original packing material if possible.