

CREEK OBH-14 SPECIFICATION

NUMBER OF INPUTS	1 (STEREO) ANALOGUE
	1 DIGITAL PHONO 75 Ω
	1 DIGITAL OPTICAL (TOSLINK)
NUMBER OF OUTPUTS	1 ADJUSTABLE, 1 DIRECT
FREQUENCY RESPONSE	5 HZ - 20 KHz
THD @ 1 KHz	< 0.003% @ -6dB
	< 0.03% @ -30dB
SEPARATION @ 1KHz	> 80 dB
SIGNAL/NOISE RATIO	> 96 dB
DAC OUTPUT	2.2 V RMS for 0 dB @ 1 kHz
OUTPUT IMPEDANCE	< 620 Ω for DAC OUTPUT
	< 5 k Ω for the ADJUSTABLE OUTPUT
	Dependent on source < 10 Ω for the NON-ADJUSTABLE OUTPUT
MINIMUM LOAD	10 k Ω
RESOLUTION	16 - 24 bit (automatic)
DAC TYPE	1 BIT 128 X FS DELTA-SIGMA
SAMPLING FREQUENCY	32 - 48 kHz (automatic)
POWER REQUIREMENTS	24V DC, 150 mA max
	REGULATED OBH-2 POWER SUPPLY
POWER CONSUMPTION	3.6 W
SIZE	100 x 100 x 60 mm
WEIGHT	0.5 kg

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Designed and made in the UK.

Creek OBH-14



Operating Instructions

Thank you for purchasing the OBH-14 Digital to Analogue Pre-amplifier. You are now in possession of a State of the Art product. The functions and operation of the OBH-14 are extremely simple. However, the following notes are provided to explain all aspects of its design and use.

OVERVIEW

The OBH-14 is a novel product, combining both Digital to Analogue Conversion at up to 24 Bit resolution, with automatic sampling frequency adjustment up to 48 kHz and simple passive Analogue signal handling capabilities, encapsulated in a miniature case.

It can be used to convert digital signals from CD, DVD, DAT and other digital sources, via two inputs, into analogue signals. It is also able to handle one stereo analogue channel and can be switched between digital and analogue input from the front panel. Also on the front panel is a high grade volume potentiometer which allows one of the outputs to be fully adjustable.

INPUT AND OUTPUT CONNECTIONS

The OBH-14 has several gold plated Phono (RCA Jacks) on its rear panel. Looking from the rear, the right hand block of six sockets provides analogue connection to and from the unit. The bottom row of sock-

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ets are for the right channel and the top row for the left. The left hand sockets are inputs for line level analogue signals. The middle sockets are fixed level outputs from either digital or analogue sources. The right hand sockets are adjustable analogue outputs from either the analogue or processed digital inputs. On the left side of the OBH-14 there is a single phono (RCA Jack) socket, which is for inputting digital signals from various sources by co-axial cable. Next to it there is an optical (TORX) socket for inputting digital signals from various sources by fibre optic link. To use the TORX connector, first remove the plastic bung that covers the socket by gently pulling it out. If not in use, keep the TORX socket covered by refitting the plastic bung.

POWER SUPPLY

The OBH-14 is supplied with a Creek OBH-2 high grade regulated power supply. The OBH-2 should be located in a ventilated place. Exiting from the OBH-2 there are two cables, one for the mains and one for the OBH-14. The thin cable with a small 2.1mm DC jack plug should be connected to the OBH-14, by plugging it into the DC input socket in the middle of the rear panel. The second cable is thicker and should have a mains plug fitted suitable for the country of use. Plug this into a wall socket or distribution block. It should be noted that, with two pin mains sockets, it is possible to reverse the plug's polarity in the wall socket, which may provide a noticeable improvement or reduction in sound quality. Experiment with this for best results. It is not necessary to switch-on the unit as it is designed to run constantly. If it needs to be switched off, the 2.1mm plug should be unplugged from the rear of the OBH-14, or the mains plug should be removed from the socket or switched off from the wall socket.

INSTALLATION

Connect the DC jack from the Power supply to the socket on the rear panel. Plug a digital interconnect from source (CD, DVD, DAT) into either co-ax or TORX connector. Plug a pair of high quality interconnects from the fixed or variable output sockets on the rear of the OBH-14 to the input of a Pre-amp or Integrated amp.

The volume control on the front panel of the OBH-14 and the variable output sockets at the back will allow it to be used as a Pre-amplifier, so it can drive the input of a Power amplifier directly, without the need for extra amplification. Plug the mains plug into the wall socket or distribution block and power up your system.

OPERATION

Select digital or analogue signal path from the push button marked 'Mode' on the front panel of the OBH-14. When the 'Mode' button is 'out' the OBH-14 is in Analogue mode, and the digital section is switched off, to prevent interference problems. During this time the LED on the front panel will glow Green. When the button is in the 'in' position and the LED is glowing Yellow, it is in Digital mode. The two digital input sockets are common, so only one digital input

should be used at any time. However, both inputs could be connected to different sources as long as these are not used simultaneously. If the OBH-14 is used to drive a Power amplifier and volume adjustments are required, the control knob on the front panel of the OBH-14 can be used to increase or decrease the level from either Analogue or Digital.

N.B.

1. Due to the nature of the OBH-14 design, if it is switched on while the Power amplifier or Integrated amplifier is connected and running, it is possible that an unpleasant noise will be heard from the loudspeakers. Therefore, do not switch on the power until the level is at zero, or the amplifier is switched off first.
2. The OBH-14 should be placed away from the stay fields of transformers or other interference signals for best results. If in doubt consult your supplying dealer for advice.
3. The OBH-14 draws very small amounts of current and will not increase your electricity bill if left on permanently. However, if it is switched off and on, it will take a few minutes to warm up and sound normal again.
4. When new, the OBH-14 will require at least 24 hours of use to 'Burn In' and optimise its sonic performance. If left on the floor it should be treated with care, as it contains mains voltages. There are no user serviceable parts inside.

WIRING DIAGRAMS

