



**DESIGNED AND ENGINEERED  
IN THE UNITED KINGDOM**

# **EVOLUTION 5350**

**INTEGRATED AMPLIFIER**

## **OPERATING INSTRUCTIONS**

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Thank you for purchasing the Creek Audio EVOLUTION 5350. You are now in possession of a State of the Art integrated amplifier. The functions and operation of this integrated amplifier are very simple, however, the following notes are provided to explain all aspects of its design and use. For simplicity we will now refer to the EVOLUTION 5350 amplifier as 'the 5350'.

### **MAINS CONNECTION**

When unpacking the 5350 please keep all the packing material in a safe place for possible future use. In the carton there is a separate mains cable suitable for connecting to the mains supply in the country of use. The IEC socket end of the cable should be firmly inserted into the connector on the rear panel marked "Mains Input".

Before switching on the 5350, please check the voltage selector switch on the rear panel to ensure it is set correctly to the voltage of the country in which the 5350 is being used. Remember - do not overload the mains wall socket with too many plugs or adaptors. The high quality performance of the 5350 will be impaired if the electrical supply to it is in poor condition. If in doubt, consult your hi-fi dealer, or a qualified electrician for advice.

The 'Mains Input' connector on the rear panel is also fitted with a fuse in a pull-out drawer. The value of the 5 x 20mm fuse is clearly stated on the rear panel next to the socket.

### **INPUT CONNECTION AND SWITCHING**

The rotary selector switch on the left-hand side of the front panel is used to select and listen to any of the desired inputs. There are four line inputs plus AV direct which are controlled by the rotary knob, plus Tape input, which is selected by the push button marked Tape. The selected input will appear in the display.

All line level inputs have the same sensitivity. It is not absolutely necessary to use the precise inputs as designated, with the exception of the AV Direct. You may, for example, plug a CD player into the Tuner input and obtain exactly the same result or performance as the dedicated CD input. However, you need to be aware that the front panel display will always reflect the input as designated on the rear panel. Therefore, for simplicity, our recommendation would always be to connect to the designated input.

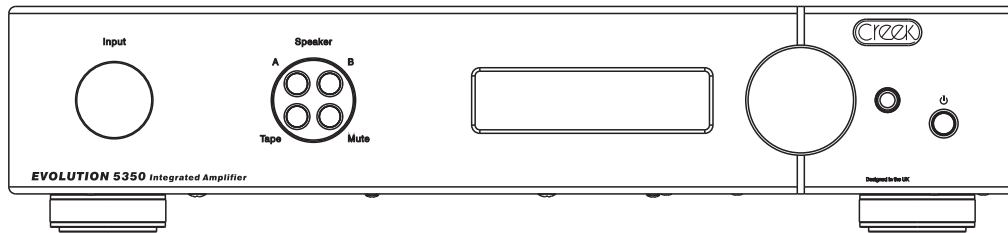
The AV Direct input provides a signal straight to the power amp and can be used with a surround sound processor. This input caters specifically for those people who are more than happy with their AV solution, but not happy with the stereo option. To connect from a processor, it is necessary to run an interconnect cable from the front pre-amp output to the AV Direct input. The 5350 then becomes a standalone power amplifier for front speaker use in a 5.1 system. When the AV Direct input is selected in this configuration, the signal level of the 5350 is no longer controlled by its volume knob.

The pre-amp output and the power amp input are available through RCA sockets on the rear panel. However, when using an external device, such as a sub-woofer to extend the lower frequencies of your stereo speakers for example, the sub-woofer should be connected to the pre-amp output.

For added flexibility, the first input on the 5350 can be used either for vinyl disc or auxiliary line. To connect your turntable, it is necessary to have the optional Creek Sequel phono plug-in board fitted. Alternatively, Creek Audio produces a range of separate Phono pre-amplifiers, which should be connected to the Aux/Phono input. When the Phono PCB is plugged-in, it will automatically indicate Phono on the front panel display, when selected.

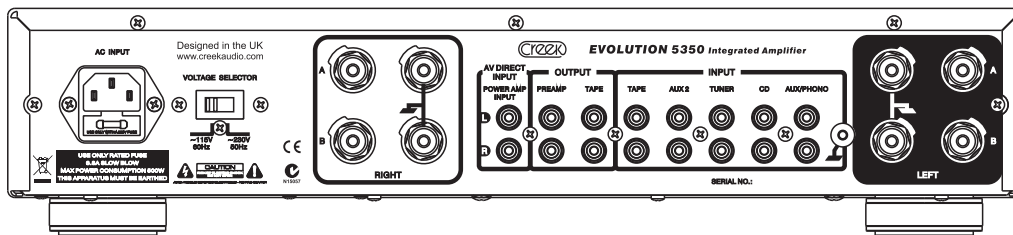
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## FRONT PANEL



The front panel controls, from left to right, feature a rotary Input selector knob, a group of buttons containing a Tape monitor switch, Mute and Speaker A/B selection, a display window, volume control knob, headphone socket and on/off switch.

## REAR PANEL



The rear panel, from left to right, features a mains inlet socket with fuse and voltage selector switch. Right channel A and B speaker output terminals. AV Direct or Power amp Input, Pre-amp and tape outputs. Tape, Aux 2, Tuner, CD and Aux or Phono Inputs. Ground post. Left channel speaker A and B output terminals.

## LOUDSPEAKER CONNECTIONS

The loudspeakers should be connected using a suitable pair of cables designed specifically for audio use. Check with your dealer for advice. There are two pairs of high quality touch-proof terminals marked A or B so that 2 pairs of speakers can be connected and selected from the either the front panel or from the Creeks SRC3 remote handset, or one pair of speakers connected using bi-wire cables. The terminals allow for either 4mm plugs or spade lug connectors. Tighten the terminal fully after fitting the speaker wire. Please consult your dealer for advice if you are unsure.

It is very important to connect the loudspeakers to the loudspeaker terminals in the correct phase. Cables are normally polarised with a line or writing on the positive side. If one channel is not connected in the same fashion as the other, a severe loss of bass performance and a spreading of the stereo image will result. It is also very important not to short the loudspeaker cables together when the other ends are still connected to the 5350, as permanent damage can result. If it is necessary to move or change the location of the loudspeakers, make sure that you first switch off the 5350 from the mains.

## VOLUME CONTROL/OPERATION

The volume level can be adjusted either by the control knob situated on the right hand side of the front panel, or remotely, with the SRC3 remote handset. The volume control is used to alter the relative level of the sound output from the 5350. It is important to realise that the volume control only acts to reduce, or attenuate, the incoming signal to the power amplifier stage. The volume level is displayed graphically from 0 - 80 in small steps. 0 represents no output and 80 represents the maximum. When switching on, the 5350 defaults to a pre-set average level of 30. If you switch the 5350 off with a higher setting than 30, the amp will turn on again at 30. If you set the level below 30, the 5350 will remember the last setting (provided that the level did not change for 30 seconds prior to turning off) and return it to the previous level.

The maximum power output of the 5350 is available only if the level of input signal is sufficient to drive it to maximum power (clipping). The volume control is necessary to adjust the level from one piece of equipment to another. It does not increase the power of the 5350 and 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 5350 has to work "flat-out".

### OPERATING THE EVOLUTION 5350

Make sure that the 5350 is operated on a suitable table, shelf or hi-fi equipment cabinet with good ventilation.

Switch the 5350 on by pressing the push button marked Power on the right hand side of the front panel. A blue display will light in the window, showing the pre-set volume level of 30 and the selected input.

Select the desired input from either the rotary selector or remote handset. Select loudspeaker connections A, B or A + B from the button on the front panel or from the remote control by first selecting AMP and then the speakers. The speaker selector button will cycle through the options. Adjust the volume and settle down to listen. Mute the sound by pressing the Mute button on the front panel or remote handset. Plugging a pair of headphones into the jack socket on the front panel will mute the speaker outputs.

Switch the 5350 off, when not in use, by pressing the Power button on the front panel.

### REMOTE CONTROL

The 5350's remote control handset allows the user to operate the volume control, input selection, signal mute, speaker selection and display brightness, by an infra-red signal. It should be noted that the SRC3 remote handset will operate Creek's EVOLUTION and Destiny ranges of products but will not switch the power on or off. For amplifier specific functions it is necessary to first select the AMP button, followed by the function button.

The input switch on the left side of the handset beneath the numeric keys is a toggle switch and will sequence through all available inputs. To mute the sound, press the centre button. Pressing it a second time returns the 5350 to the previous level at which it was playing. Volume up and volume down buttons are either side of the centre circle. Pressing the display button on the top right dims/brightens the display. The remaining buttons are for use with other Creek products.

### POWER CONSUMPTION

It is appreciated by hi-fi enthusiasts that leaving equipment powered up continuously can improve the performance. However, this small improvement in sound quality comes at the expense of higher power consumption from the mains, which will cost more for your electricity and also reduces the working life of the product. The 5350 draws 50 Watts of power when switched-on but not passing a signal. We recommend that if the equipment is not being used for a period of time, it would be better to switch it off from the mains switch on the front panel. Normal performance can be achieved in a short period of time. Relays select the input and output and a short delay is built in to the program to allow it time to check itself for correct operation. Clicking noises at this stage are quite normal.

### RADIO INTERFERENCE

The 5350 is designed to work properly in normal domestic operating conditions. However, its performance could be affected if sited near to a radio transmitter such as a mobile phone etc. Move the 5350 or the radio source to overcome the problem.

### PROTECTION

The 5350 has short circuit (over-current), thermal (over-temperature) and DC offset protection. The speaker relays will cut out should there be DC on the output which would damage loudspeakers. High temperature and over-current (covering the vent holes or playing too loud into a difficult speaker load) will cause the volume control to be muted temporarily. When restored after a short time, the level will be automatically reduced to avoid it happening again. However, this may be repeated if the level or temperature remains too high. To indicate what is wrong, the display will graphically show the fault condition. If the fault is DC, it may have been caused by an external device, such as a tuner or CD player, having DC on its output.

It is important to allow good ventilation to the heat-sinks inside the case. Avoid obstruction of the ventilation slots on the top and bottom of the 5350. It may be necessary to place the 5350 on the top of other equipment, or a separate shelf to allow for this. Do not place it at the bottom of a stack of equipment, as it will get too hot and switch off.

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### FAULTS

The 5350 is designed to provide years of reliable use. If you need more assistance, it is always advisable to go back to the supplying dealer for his expert help. If you are unfortunate enough to need service work to be carried out on your 5350, it should be returned to your dealer in the original packing material if possible.

### SPECIFICATION

|  |   |
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| POWER OUTPUT (both channels into 8 $\Omega$ )      | 120 Watts                                     |
| POWER OUTPUT (both channels into 4 $\Omega$ )      | 200 Watts                                     |
| PEAK OUTPUT CURRENT INTO 1 $\Omega$                | > 25 Amps RMS                                 |
| TOTAL HARMONIC DISTORTION (20 Hz to 20 kHz)        | < 0.02%                                       |
| FREQUENCY RESPONSE                                 | 1 Hz to 50 kHz - 1 dB                         |
| SLEW RATE  | > 30 V per $\mu$ S                            |
| GAIN   | x 48 (33.6dB)                                 |
| INPUT SENSITIVITY - One channel driven/8 $\Omega$  | 500 mV line input                             |
| PRE-AMP OUTPUT LEVEL                               | Follows input signal level via volume control |
| SIGNAL TO NOISE RATIO ('A' weighted)               | > 90 dB                                       |
| SEPARATION (line inputs)                           | > 60 dB at 1 kHz                              |
| MM PHONO SENSITIVITY & IMPEDANCE                   | 3.5 mV 47 k $\Omega$ (when fitted)            |
| MC PHONO SENSITIVITY & IMPEDANCE                   | 0.75 mV 1 k $\Omega$ (when fitted)            |
| POWER CONSUMPTION (at idle)                        | 50 Watts                                      |
| POWER CONSUMPTION (full power 10% THD)             | 500 Watts                                     |
| WEIGHT (net)                                       | 10.5 kgs 23 lbs                               |
| SIZE (W x H x D) including knobs and terminals     | 430 x 90 x 370 mm 17 x 3.6 x 14.6 ins         |
| MAINS VOLTAGE @ 60Hz                               | 110/120V North America                        |
| Mains voltage selector switch on rear panel @ 50Hz | 220/240V Europe, Asia and UK                  |
| REMOTE HANDSET                                     | Creek SRC3                                    |

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

If within two years of purchase date your Creek EVOLUTION 5350 proves to be defective for any reason other than accident, misuse, neglect, unauthorized 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 in 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 the Creek distributor/importer. See [www.creekaudio.com](http://www.creekaudio.com) for the full list of distributors. Warranties granted in these countries are entirely at the discretion of the distributor.

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