



Hi-Fi Separates
Designed & Engineered in the U.K.

Destiny

Classic

EVO

2006 Product Catalogue



AMPLIFIER SPECIFICATIONS

MODEL	EVO	CLASSIC	CLASSIC	DESTINY	DESTINY
Type	Integrated	Integrated	Power	Integrated	Power
Number of Inputs	4	5	1	5	1
Active / Passive	Active	Optional		Optional	
Socket type	RCA	RCA		RCA	
Pre-outputs	Yes	Yes		Yes	
Buffered	Yes	Optional		Switched	
Impedance	22 kOhms	0 - 20k Ohms		0 - 20k Ohms	
Circuit type	OPA2134	Plug-in Gain		OPA2134	
AC/DC coupling	AC	DC		DC	
Fixed or optional plug-in gain	x2	x1.5 x 2 x 3		x1.5 x 2 x 3	
Number of tape loops	1	1		1	
Buffered	Yes	No		Yes	
Circuit type	NE5532	Passive		TL072	
AC (capacitor coupling) DC (servo)	AC	DC		DC	
Input selection type	Rotary encoder	Alps Rotary		Push switch	
Switch method	Relays	Switch		Relays	
Remote control	Yes	Yes		Yes	
Control type	32mm knob	32mm knob		Buttons	
Volume control type	PGA2311	27mm pot		27mm pot	
Brand	Burr-Brown	Alps blue		Alps blue	
Remote control type	Digital/analogue	Motorized		Motorized	
Control size	40mm knob	40mm knob		40mm knob	
Position indicator	Numeric VFD	Line		Line	
Resolution	0 to -80dB	0 to -80dB		0 to -80dB	
Adjustment steps	1 dB steps	Continuous		Continuous	
Separate power amp input	No	Yes	Yes	Yes	Yes
Input impedance	22k Ohms	47k Ohms	47k Ohms	47k Ohms	47k Ohms
Pre/power connection type	Joined	Switch	No	Switch	No
Power output					
8 Ohms 2 channels	85	90	90	100	100
4 Ohms 2 channels	150	160	160	180	180
8 Ohms 1 channel	90	100	100	110	110
4 Ohms 1 channel	170	180	180	200	200
Current limiting	Yes	Yes	Yes	Yes	Yes
Offset protection	Yes	Yes	Yes	Yes	Yes
Power amp type	Bi-Polar	MOS-FET	MOS-FET	MOS-FET	MOS-FET
Power amp Gain x	34	48	48	48	48
Power amp Gain in dB's	30.63	33.6	3.6	33.6	33.6
Total gain of integrated amplifier in passive or normal mode	36.65	33.6		33.6	
Pairs of output sockets	1	2	2	2	2
Switched outputs	No	Yes	No	Yes	Yes
Headphone output	Yes	Yes	No	Yes	No
Power supplies	250VA toroidal	250VA toroidal	250VA toroidal	250VA toroidal	250VA toroidal
Separate low voltage windings	Yes	No	No	Yes	Yes
Rectifiers	1 x Silicon	1 x Schottky	1 x Schottky	2 x Schottky	2 x Schottky
Separate caps for each channel	Yes	No	No	Yes	Yes
Total power supply in micro Farads	37,600	31,000	31,000	40,000	40,000
Number of individual PS caps	8	14	14	20	20

In recent years, Mike Creek became eager to take his company more up-market.

The amount of similarity there is when designing affordable products that work well yet cost a fraction of those esoteric products and brands which fill the pages of the world's hi-fi magazines, is frequently misunderstood.

Mike has always known a thing or two about designing affordable products. How would he cope with the rigours of designing such exclusive and exacting products the high-end consumer is used to buying?

'Well', he says, 'thank goodness for team work'.

The Destiny product range was originally conceived to replace the renowned Creek 53 series, but during the design stage, such were the efforts made by the Creek team to improve the already exceptional 5350SE and CD53 that, in reality, a very different product emerged.

Within weeks of its release, Creek's Destiny range was being hailed by the global hi-fi press as the best products Creek had produced in its 23 year history.



Integrated Amplifier



Destiny allowed the creation of a brand new case style, with the aid of 3D solid modelling software.

The casework used by all Destiny products is constructed from custom made extruded aluminium sections, machined and anodised to a high finish to enable the massive 4mm thick top and bottom panels to be bolted to the front, rear and side panels. Using countersunk stainless steel screws thereby forming an extremely rigid and smooth structure, Destiny products are enormously strong.

To damp the effects of vibration from possibly affecting the sonic performance, custom moulded Sorbothane™ feet have been fitted isolating the case and its contents from a shelf or mounting platform.

To allow good ventilation and reliability, the Destiny amp uses large custom heatsinks for each channel together with significant areas of ventilation slots on the top and bottom of the case. Being an all aluminium construction, the whole case will eventually become warm, as it radiates the heat generated by both amplifier circuits. Large solid aluminium disc feet are a new feature of the Destiny design which also increases the space underneath for air flow.

Creek specified only the best components for every section of the amplifier, to fully exploit the capabilities of the already excellent 5350SE circuit. Improvements to the layout and wiring of the Destiny amplifier has made a substantial improvement to the sonic performance, when compared to the illustrious 5350SE. The decision to retain the motorized 27mm high grade ALPS 'Blue Velvet' volume potentiometer, instead of using a more popular digital volume control contributes significantly to its superb performance. Loudspeaker connection is now via 8 gold plated, touch-proof, 4mm style, high current binding posts.

The Destiny Amp has the unusual feature of allowing the user to choose between a sonically perfect passive (no gain) pre-amplifier and a high precision, active pre-amplifier. The active stage, which uses a Burr-Brown OPA-2134 precision Op-Amp for each channel, has the added feature of a +3dB, +6dB or +9dB gain boost, user selectable, with a 3 way slider switch, located on the underside of the pre-amp section.



To further enhance the performance, the Destiny's pre-amp and power amplifier can be joined and separated by a push button switch, recessed behind the rear panel. Signal paths, to and from the pre and power amplifier internally, are carried by audio grade shielded cables.

A new feature for the Destiny amp is low-current standby operation. To achieve this, the amp has a constantly powered, small toroidal transformer and power supply dedicated to running the microcontroller and all its digital circuitry.

If all protection conditions are satisfactory, a high current relay will connect the mains voltage to the amplifier's power transformer, to power-up the amplifier and all other analogue circuitry.

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Most types of dynamic headphones can be connected to the standard size ¼" jack socket on the front panel, for high performance reproduction.

A new, modular plug-in feature allows the Destiny amp to have a highly flexible option for Aux Line input. Firstly, there are dedicated Destiny balanced input MM or MC Phono circuits available, which exploit the balanced nature of Phono cartridge wiring, to significantly improve interference suppression and provide studio levels of accuracy to the venerable vinyl disc source.



For digital enthusiasts, Creek plans to offer a high-end 24 bit D to A converter to allow the amp to accept SPDIF signals on both Aux1 inputs. The Destiny amp will automatically recognise which plug-in feature has been installed and indicate this on the front panel. The basic product comes with a linking PCB that treats Aux1 as a line level input.

The Destiny's unique MOS-FET power amp circuitry is an evolution of the design first used by Creek products in 1993. Improvements in the Destiny include the use of SMT (Surface Mount Technology) to reduce the size and space of the amplifier circuitry and improve the layout. This allows the signal path and amplification to be located on the top layer of the circuit board and the power supplies and ground plane to be located on the bottom layer. 'Dual Mono' layout and construction and a massive 300VA low noise toroidal transformer with separate windings for the pre-amp and power amp circuitry has greatly improved the performance.

In addition, the left and right channels now have their own low impedance DC power supplies, fed from two separate Shottky Barrier diode bridge rectifiers and multi-capacitor reservoirs, totalling 20,000 microFarads. This allows the Destiny to output more than 100 Watts per channel into an 8 Ohm load, both channels driven and a massive 200 Watts into 4 Ohms, one channel driven. Input selection is now performed by a separate relay for each of the 5 line inputs plus the single tape loop. Input selection is visibly indicated by LED's which have four, user adjustable, brightness levels.

Protection of the amplifier and ancillary products under fault conditions is facilitated by an array of sensors and measurement circuits feeding-back information to the microcontroller that monitors the amplifier constantly for over-temperature, over-current, DC offsets, power supply status and over-drive situations. If any of these conditions is exceeded the micro will take the appropriate corrective action. This can include, muting the input signal, separating the speaker outputs and, in extreme cases, switching off the mains supply to the power amplifier circuitry.

The Destiny integrated amplifier is supplied with Creek's new system remote handset. The SRC2 provides full control not only of this product, but all Creek's other IR controllable models.

In the second half of 2006, Creek will produce an interface for (CAN) bus to RS232 serial bus, allowing Destiny products to link to proprietary multi-room controllers. Serial RJ45 connections are found on the rear of the Destiny range products.

CD Player



The CD50mk2 was unquestionably the best sounding CD player Creek Audio had ever produced. It out-performed all of the company's previous players in the area of sound quality, playability and reliability. It was also the first CD player Creek produced using a ROM drive, instead of the more usual CD transport. Sound quality of the CD50 mk2 was as high as Creek could make within its budget constraints.

Creek's objective for Destiny was to make the highest quality product possible, by fully exploiting the CD50mk2's basic electronic design concept. By removing budget price constraints, selected components have been used to open-up the performance to the max.

The Destiny player achieves real 'High-End' performance in all areas of sound quality, engineering and construction. The outstanding contribution Destiny's new casework has made to the appearance is certainly not at the expense of the internal electronic design. High quality gold plated double sided circuit boards are mainly populated with (Lead Free) surface mount electronic devices to create an ideal environment for the digital and analogue circuitry to be optimised. Analogue and digital domains are fully isolated to remove any possibility of interference or blurring of the audio signals.

The Destiny CD player uses a custom made DVD ROM drive, (DVS-710A) similar to that used by any high grade DVD player. Creek have customised the firmware to create a regular x2 speed, high resolution, disc drive system suitable for CD only reproduction. Copy protected and multi-media discs are supported by this drive and if, in the future, any firmware upgrades are required, these can be supplied on disc or down-loaded via the Creek web-site.

Raw digital data is output from the transport via an ATAPI bus system to the Destiny CD's main processing board. Custom electronic buffering (FPGA) circuitry stores the data momentarily before correcting any errors and re-organising it into a (I2S) format, suitable to be fed to the Destiny's digital to analogue converter (DAC) circuit.

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To optimise the Destiny CD's performance it uses a total of 3 encapsulated toroidal transformers mounted on a separate power supply circuit board, together with a fully shielded multi-element mains filter and mains voltage selector switch (115-230V AC). The filter not only prevents interference but also filters any mains disturbances from affecting the reproduction quality of the player. Three transformers are used to isolate the digital, analogue and transport circuits. To reduce interference further and to improve efficiency, all rectifiers in the power supply are Shottky Barrier types. To reduce the power supply's impedance, all decoupling capacitors are audio grade, high temperature (105 degree C) types. In total there are 16 regulated power supplies used to isolate the circuitry in the Destiny CD player.



Perhaps the most important, but least mentioned part of any CD player is the master clock.

To clock the data through the Destiny CD a low phase noise (5pS), temperature controlled, master clock oscillator is used, which is powered by a low impedance voltage regulated power supply. Jitter is the key to achieving high performance in digital products and the lower the jitter is, the better the CD player will sound.

To further enhance its performance, Creek has introduced additional re-clocking circuitry between the Transport circuitry and DAC, to eliminate timing errors (jitter) from corrupting the digital data. The Destiny CD player produces exceptionally low (150 picoseconds) jitter on its analogue output.

To maintain a sonic family resemblance to other Creek CD players, the Destiny continues to use a Crystal Semiconductors 24 bit 192 kHz, Delta-Sigma DtoA converter. Fine tuning and attention to power supply requirements has allowed the Destiny to extract the maximum performance from this excellent DAC. Needless to say, CD Players read discs that are recorded at 16 bit and 44.1 kHz resolution. Creek engineers do not believe that up-sampling will improve the performance of this player.

From the output of the DAC, additional analogue filtering is required to remove all high frequency digital artefacts. In the Destiny CD, instrument grade, OPA134 op-amps are used in the audio output to buffer each channel and filter any unwanted digital artefacts. These op-amps are also powered separately by their own low noise regulators and mains transformer. Audio signal path passive components are selected for sonic purity, so the Destiny uses high-stability MELF type resistors and film and polypropylene type capacitors only. Audio output RCA sockets are individual high-grade, solid, gold plated types.



For use with external digital converters, the Destiny has a transformer coupled SPDIF output via RCA connector and an optical output via a TORX connector, on the rear panel.

Creek SRC2 System Remote Handset



The SRC2 is a System Remote Control Handset and was originally designed to operate the Creek Destiny products. However, it can also operate the older remote controlled Creek products and the new Classic range. The SRC2 cannot be used with Creek's entry level EVO range

The coloured buttons allow the user to find the features dedicated to that device more easily.

Use any of the blue buttons to operate a Creek CD player.

Use any of the ivory buttons to operate a Creek amplifier.

Use any green buttons to operate a Creek tuner.

To extend the capability of the handset, the buttons coloured dark grey can be used for multiple functions.

This is achieved by first pressing the product button (CD, Amp, and Tuner) located just above the circle of buttons in the centre of the handset.

The remote will then be programmed to make the dark grey buttons work for that device only, until another product button is pressed.

Additional Destiny Products

To complement the Integrated Amplifier and CD Player, a Destiny power amplifier will be available in the second quarter of 2006 and is designed to match perfectly with the Destiny integrated amplifier.

The moving magnet and moving coil plug in phono boards have been designed exclusively for use with the Destiny integrated amplifier. These boards represent a significant improvement over Creek's other plug-in options and reflect Destiny's high end performance characteristics.

Classic

During the early part of 2005 it became apparent that unless some design changes were made to the popular 5350SE integrated amplifier, it would have to be phased out of production. The changes were necessary as a direct result of the non-availability of some parts. Rather than simply go to a mk2 version, the decision was made that three of Creek's highly acclaimed award winning products would undergo some basic design changes and together form the company's Classic range. A separate power amplifier joins the Classic range in April 2006.



Integrated Amplifier

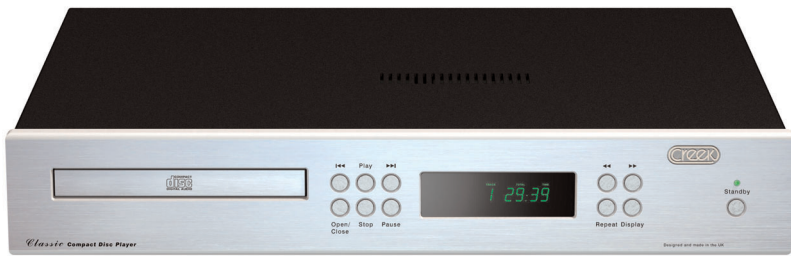
Released in August 2005, Creek's Classic 5350SE integrated amplifier is worthy of its name. This new amplifier underwent subtle changes resulting in an overall improved performance.

The most noticeable changes from the original amplifier were the removal of the tape selector switch and a reduction in size of the pre-amplifier circuit board. The front panel was re-styled to accommodate the change, and the casework was re-worked to handle the removal of the redundant 2nd Tape Output.

The Classic 5350SE is constructed in a modular way, with separate power amplifier, pre-amplifier and remote volume control circuit boards, connected with flat cables, plugs and sockets. It features a passive pre-amplifier circuit, providing no additional gain to the source signal. Although not strictly necessary, the Classic 5350SE can be configured with an active pre-amplifier if required, by plugging in an optional gain board which can be switched in steps of +3, +6 or +9 dB.

The rotary selector switch on the left hand side of the amplifier selects the desired inputs. There are six inputs including tape in plus tape out. As all the line input levels are the same, it is not necessary to use the precise inputs as designated. However, for added flexibility, the first input on the Classic 5350SE can be used either for vinyl disc or auxiliary line. To connect a turntable, it is possible to have the optional MM or MC phono plug-in board fitted. These boards are available in four options: MM standard and MM special edition, MC standard and MC special edition. The alternative to a plug-in board is the Creek OBH phono pre-amplifier.

To accommodate Bi-wiring and Bi-amping, the Classic 5350SE is fitted with 2 pairs of high current speaker binding posts plus separate pre-amplifier output and power amplifier input sockets. Speaker A/B selection is switchable from the front panel. Joining and separating the pre/power sections is achieved with a switch on the rear panel, which is recessed to avoid accidental use. Separating the pre and power amplifiers via this rear panel switch allows the user to connect an external device such as a subwoofer. This provides an ideal solution for anyone wanting to extend the bass frequency of their loudspeakers when listening to music. The Classic 5350SE also hosts a front panel mounted headphone socket.



CD Player

Creek's Classic CD player has evolved from the CD50mk2. There has been a change in the design of the casework so that it better matches the other Classic components.

Extracting the digital information from the ATAPI bus, similar to a computer, has enabled Creek to work with a virtually jitter free signal source. To convert the signal to a usable format, the Classic CD player uses a digital buffer circuit (FPGA) that stores the signal for a short time and converts it into a suitable format for feeding to a D to A converter. This creates shock immunity from the player, so that the disc is not playing exactly in real time, but slightly delayed through the dynamic buffer. It also converts the signal into a SPDIF signal to provide a high quality digital output, which is now available via TOSLINK optical as well as co-axial sockets.

Sound quality on the Classic is superb. Using an improved and symmetrical layout with shorter signal paths, the player has much better measured performance than Creek's original CD50, with much lower signal to noise and THD figures. This is due to the Classic having distributed power supplies with 7 digital and 5 analogue low noise voltage regulators and low noise resistors. A higher frequency clock oscillator is used in this player and is synchronised with the micro controller and buffer clock to minimise internal interference.

Two separate high current mains transformers are used in the Classic player. The voltage to the digital and analogue circuitry, display and ROM drive are kept completely separate, for maximum interference immunity.

Front panel controls include Play, Stop, Pause, Open/Close, Skip Forward, Skip Back, Search Forward, Search Back, Shuffle, Repeat and Standby functions. They are supplemented by an attractive full feature Creek system remote control handset utilising RC5 type codes (SRC 2)

The rear panel has a mains switch, together with the usual fused IEC mains inlet. A pair of gold plated Phono/RCA sockets is provided for un-balanced analogue output and (SPDIF) digital outputs are via a transformer coupled Phono/RCA socket.

The Classic CD player has been designed to read all known 'Copy Protected Discs' that currently exist. In future, copy protected discs with revised copy protection algorithms may cause problems, but with its upgradeable software and firmware capability, the Classic can be easily upgraded by the dealer or importer to play such discs.



One of the great strengths of Creek Audio through the years has been the ability to produce exceptional tuners. When it was first introduced in 2003, the T50 carried on that tradition. Although it is now styled to suit the Classic series, this tuner sits comfortably alongside any products.

With today's airwaves seemingly becoming even more crowded, coupled with the ever-increasing methods of accessing radio broadcasts, why would you purchase a dedicated tuner? The answer is quite simple – it is the only way to really bring radio broadcasts to magnificent sonic life. Separates do sound better and a stand-alone analogue tuner will provide a purer quality of sound.

First and foremost, in a hi-fi context most listening is undeniably FM, although this analogue tuner is not limited to FM. Tune in to your favourite station however and you are instantly aware of the quality of the Creek Classic. Listening to it is addictive, and the idea that radio is purely a source of background music, carries no weight. The Classic tuner is both functional and versatile, high tech, yet simple.

The design objective for the Classic was to develop a tuner that, regardless of price, could be used as a benchmark for both radio and audio performance. That has been achieved by choosing technology that is more commonly found in professional communication receivers. The mixture of high technology and simplicity has reduced the component count to a level previously thought impossible.

Whilst the majority of synthesised tuners today use buttons to tune-in stations and select pre-set station memory, the Classic uses a rotary tuning knob connected to a digital encoder to provide tuning and pre-set station selection in a way that makes this digital tuner feel like an analogue tuner. To simplify its functionality, Creek engineers have reduced the number of local functions to a minimum, while maintaining all the sophistication required to operate every aspect of the tuner's capabilities.

Front panel controlled functions include: Rotary Tuning Mode, Rotary Pre-set Mode, Band Switching - AM/FM, or MW/LW/FM, depending on country settings, Auto Scan tuning, Display brightness. These plus Mono Stereo and mute threshold adjustment are also available via remote control. The Classic also has the ability to display the name and frequency of the station tuned using RDS (Radio Data System).

To achieve state of the art sensitivity and selectivity, the Classic uses a dual-conversion method of retrieving radio signals, which combined with a single stage broadly tuned front-end, allows it to pick out weak stations from the airwaves when they are closely situated in frequency to a strong local station. Local AFC also allows the digital bus to be switched-off when not in use, maintaining even lower levels of digital interference to the radio signal. Surface Mount Technology and the use of double sided plated through hole printed circuit boards provide a high level of interference suppression and help to achieve professional levels of performance.

All the active devices in the Classic are controlled by a digital I2C bus, which allows the design of the tuner to be updated by changing the codes in its microcontroller. Future upgrades, or changes of country settings are made easy as these custom features and station pre-sets are held in a non-volatile memory, similar to that of a PC computer, with up to a maximum of 99 memory locations available for FM and 29 for AM.

The open and dynamic sound capabilities of the Classic tuner will be restricted by the quality of the aerial or antenna used, distance from the station and the source quality from the chosen radio station.

The vacuum fluorescent display is easy to read, and when coupled with Creek's intuitive latest SRC2 system remote handset - which is standard with the Classic - control is effortless. More details on the new remote handset can be found in the Destiny section of this leaflet.

EVO

It was in early 2002 that Creek's legendary 43 series products were discontinued. They were considered to be amongst the best entry level products available but the discontinuation of major component parts meant Creek was left no option than to cease production. With ever escalating costs it became almost impossible to be able to produce products of comparable quality at the same - or better - price points. Until now.

Creek is well known for its British manufacturing standards. However if it was possible for Mike Creek to enter into a partnership with a manufacturing company in China, where he retained full control over the ultimate design of his products then he knew that the possibility to provide exceptional entry level products once more was within his grasp.

In 2006 that possibility has become a reality with the introduction of Creek's EVO range. Initially comprising an integrated amplifier and CD player, the EVO products once more allow first time hi-fi buyers to experience the joy of owning this legendary British brand.

Evo products have been developed using 3D solid modelling software and high grade PCB development tools. They are designed to look similar to the new Destiny high-end range, but not to be confused with it. Cosmetically, the Evo uses a 12mm solid aluminium front panel which is machined to create a visually appealing look and feel. The casework is larger than previously used on the Creek 50 series, to accommodate the extra power and facilities. To provide a solid feel and stiffness, the outer case is made from folded steel, coated with a textured paint finish. Control knobs, buttons and disc feet are machined from solid aluminium and match the shape and finish of the Destiny and Classic models. However, the Evo does not use Sorbothane material in the feet, like the Destiny.

Integrated Amplifier



To achieve 85 Watts power into an 8 Ohms load and >160 Watts into 4 Ohms, the mains transformer has to be big. The Evo uses an over-rated 250VA toroidal transformer, which will provide enough current to drive the amplifier to almost double its output into 4 Ohms.

To improve the sound quality, no expense has been spared. Separate windings are used for

each of the high current high voltage and low voltage, analogue and digital circuits. Two sets of rectifiers and a total of 20,000 micro-Farads of multiple smoothing capacitors are used to separate the left and right circuitry and improve the dynamic performance. This is a technique used by Creek before for its up-market products and is now available in the entry-level Evo. In terms of value for money, this cannot be over-stated.

Generally, few Hi-Fi companies put so much effort into their product's power supplies at this price point, but this is an area that, Creek are convinced, rewards highly for the investment. To allow it to be easily used in different countries, the Evo also uses an external voltage selector.

Significantly, the Evo is the first product made by Creek to use an electronic volume control. It uses a Burr-Brown PGA2311, stepped resistor attenuator operated by a microcontroller. This allows the user to adjust the volume accurately, in 1 dB steps, from 0 to -80dB. An analogue style rotary encoder, with 40mm solid control knob, is used to alter the volume from the front panel and display the reverse level in dB on a large blue coloured VFD display i.e. 80 is loudest and 0 is off. To buffer the signals in and out of the pre-amp, high grade Burr-Brown OPA2134 op-amps are used. Signal switching is performed by relays, which are driven by signal from a powerful microcontroller, similar to the Destiny amp.

The Evo is configured as a high open-loop gain circuit, using a double differential input and driver stage plus discrete Darlington power output stage, using high current bi-polar transistors. This is similar to the circuitry Creek used prior to its more complicated MOS-FET designs. High grade polypropylene capacitors, bypassed with large value electrolytics, are used to couple and decouple the signal into the power amp as the Evo doesn't use a DC servo correction, like the Classic and Destiny amps.

To keep the amplifier safe, it is monitored by discrete transistor circuitry to protect against over current demand, short circuits and DC offsets. Relays mute the input and separate the loudspeaker output in the case of faults.

The Evo operates conventionally with rotary controls for input selection and volume control and buttons for Tape selection and power On/off. It has four inputs plus tape - selection is via the remote handset or the input selection control. A visual indication of its status is displayed on a large blue Vacuum Fluorescent Display (VFD). The display brightness can be altered from the Evo remote control handset. As with all Creek amplifiers the EVO has a facility to fit a Creek phono board and the first input is configured for this purpose. The phono boards available for this amplifier are the same as those which can be used in the Classic amplifier.

Gold plated input and output sockets have been chosen to provide a good connection and appearance for a product at its price point. Loudspeakers are connected with 1 set of 4mm terminal binding posts, with plastic touch proof covers. The amplifier also has a headphone socket which is becoming an increasingly rare feature of modern day amplifiers.



Mains connection is via a standard, fused, IEC chassis plug.

A high quality power cord, with suitable mains plug for the country of use is supplied.

CD Player



The Evo CD player uses a Philips VAM1201 laser assembly and low profile loader.

This transport is different to the shortloader previously used by Creek in its CD43mk2, CD50 and CD53. However, the laser and chipset are the same.

The shortloader transport became obsolete; hence the switch to alternatives, such as the ATAPI drive used in the more expensive Classic and Destiny CD players.

Servo control and decoder functions are performed by a Philips chip set. Custom software controls these functions and also interfaces with user functions such as display, function buttons and remote control.

The Evo uses a single high current C core mains transformer fed from the mains via a custom designed common mode filter. To allow it to be easily used in different countries, this CD player uses an external voltage selector.

To stabilise and isolate the voltages to the various analogue and digital circuits the Evo uses no less than eight voltage regulators. Digital and analogue supplies are kept separate and the master clock uses its own supply.

One of the most important parts of a good sounding CD player is the master clock. The Evo has been designed to use a low jitter oscillator module that clocks the data from the drive to the D to A converter and also clocks the microcontroller with the same frequency. This is done to avoid the internal interference that would cause sonic performance reductions if run at a different and asynchronous frequency.

The data from the decoder is re-clocked to provide a low jitter signal to a Burr-Brown PCM 1738, DAC IC, which is capable of 24 bit/192kHz operation. However, Creek Audio does not up-sample the data as we do not believe there is performance advantage unless done correctly. The Evo CD is an entry level product and therefore its price cannot support the level of circuitry required to perform up-sampling correctly.

Following the D to A conversion, the Evo uses four high grade Burr-Brown OPA604 op-amps to sum the balanced output from the DAC and to convert the output current into a voltage.

Analogue filtering is required to the signal to eliminate digital artefacts. This needs to be buffered from the output sockets, so that external equipment does not change the filter shape and response. As it also exits the D to A converter in the reverse phase, the Evo uses two dual OPA2134 op-amps to both buffer the signal and reverse the phase prior to the output sockets. A relay is used at the output to mute the signal to ground when required.

The Evo operates conventionally with buttons for Play and Pause, Stop, Open and Close, Track forward and backward and power On/off.

A visual indication of its status is displayed on a large blue Vacuum Fluorescent Display (VFD). The display brightness can be altered from the Evo remote control handset.

Gold plated, solid metal, analogue and co-axial digital output sockets have been chosen to provide a good connection and appearance for a product at its price point. Optical digital output is also available via a standard TOSLINK connector.

Mains connection is via a standard, fused, IEC chassis plug. A high quality power cord, with suitable mains plug for the country of use is supplied.



The Evo has a dedicated remote control handset, which currently operates both the integrated amplifier and CD player.

Evo uses different codes to other Creek products. Therefore it cannot be used with Classic or Destiny, nor can the alternate Creek remote handsets, ARC 53, SRC 1 or SRC 2 be used with Evo.

The SRC remote is considerably more expensive than the Evo, so the remote for use with these products was an economic choice rather than a technical or cosmetic one.

However it has all the features you would expect, including an ability to dim the brightness of the display.

The controls are intuitive and the remote is packaged with every product.

Destiny CD Player

Specifications

Power requirements (Selectable by switch on underside of player)	Supplied 220/240-50 Hz or 100/120-60Hz
Power consumption	20 W max 6 W in standby mode
Mains filtering	Multi-pole bi-directional
Power supply	3 fully encapsulated PCB toroidal transformers for transport, logic and analogue circuitry
Frequency response	1 Hz - 20 kHz ± 0.25 dB
Output level	2.0 V RMS at 1 kHz, 0 dB
Output impedance	50 Ohms recommended min load 1 K Ohm
D to A type	24 bit - 192 kHz (> 120 dB) Crystal CS4396
Total harmonic distortion	< 0.0008% at 1 kHz, 0 dB
THD + Noise	> -97dB
Dynamic range	> 117dB
Clock type	Temperature compensated ultra low jitter and phase noise module with re-clocking
Number of channels	2 via high quality solid RCA gold plated sockets
Digital output	Re-clocked optical via TORX and transformer coupled co-axial gold plated RCA socket
Laser type	Semiconductor ALGaAs
Wavelength	790 nm ± 25 nm
Light output (cw)	0.18 mW typical
Transport	DVD loader with ATAPI interface. Firmware upgradeable
Software	Custom Creek software, running loader, display, remote control and DAC. Upgradeable via plug-in EPROM
Case	Built with custom Creek extruded panels throughout
Weight	6 Kg (13.2 lbs)
Dimensions (W x H x D) mm	430 x 70 x 314 (16.9 x 2.7 x 12.5 inches)
Remote control	Custom Creek SRC2 system remote handset - Uses RC5 odes

Classic CD Player

Power requirements	Supplied 220/240 50Hz or 100/120 60Hz
Power consumption	20 W max 6 W standby
Frequency response	1 Hz - 20 kHz ± 0.25 dB
Output level	2.0 V RMS at 1 kHz, 0 dB
Output impedance	50 Ohms recommended min load 1 K Ohm
Laser type	Semiconductor ALGaAs
Wavelength	790 nm ± 25 nm
Light output (cw)	0.18 mW typical
THD + Noise	> -97dB
Dynamic range	> 117dB
Number of channels	2
Total harmonic distortion	< 0.0008% at 1 kHz, 0 dB
Weight	5 Kg (11 lbs)
Dimensions (W x H x D) mm	430 x 70 x 316 (16.9 x 2.7 x 12.6 inches)
Remote control	Custom Creek SRC2 system remote handset - Uses RC5 code

EVO CD PLAYER

Specifications

Power requirements	Supplied 220/240-50 Hz or 110/120-60Hz (Selectable by switch on rear panel)
Power consumption	23 W max
Frequency response	1 Hz - 20 kHz \pm 0.25 dB
Output level	2.0 V RMS at 1 kHz, 0 dB
Output impedance	50 Ohms recommended min load 1 K Ohm
D to A Type	24 bit - 192 kHz Burr-Brown Delta-Sigma
Total harmonic distortion	< 0.0008% at 1 kHz, 0 dB
THD + Noise	> -97dB
Dynamic range	> 100 dB
Laser type	Semiconductor ALGaAs
Wavelength	790 nm \pm 25 nm
Light output (CW)	0.18 mW typical
Tansport	Low profile with Philips VAM1201 laser assembly
Mains voltage @ 60 Hz @ 50 Hz	110/120V North America 220/240 Europe, Asia and UK
Weight	6 Kg (13.2 lbs)
Dimensions (W x H x D) mm	430 x 70 x 340 (16.9 x 2.7 x 15.5 inches)
Remote control	EVO Supplied Uses NEC codes

Classic Tuner

Wavebands	Worldwide FM 87 - 108 mHz Japan FM 76 - 90 mHz Europe MW/AM 522 -1611 kHz USA AM 530 -1710 kHz Europe only LW 144 - 288 k _H z
Frequency Increments	50 kHz FM 9 kHz AM (10 kHz for America) 199 kHz auto 200 kHz USA
Sensitivity (HF 50dB)	<20mV mono <100mV stereo
Selectivity (IHF)	>70dB \pm 0.4 mHz FM
Number of presets	99 FM 6 LW
Frequency response (FM only)	20 hZ - 16 KhZ -1dB
Total harmonic distortion	<0.3% (FM) <3% (AM)
Stereo separation (FM only)	>30dB
Signal to noise (FM only)	>69dB (Full limiting)
Output voltage	500mV RMS for 50 kHz deviation
Aerial connections	300W and 75W co-ax
Power consumption max	7 VA
Power supply voltage	220/240 V AC 50Hz UK, Europe & Asia 100/120 V AC 60 Hz
Weight	5 Kg (11 lbs)
Dimensions (W x H x D) mm	430 x 70 x 316 (16.9 x 2.7 x 12.6 inches)
Remote control	Custom Creek SRC2 system remote handset - Uses RC5 code

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



Creek products are distributed in more than 45 countries worldwide.

Full details of international distributors can be found by visiting the Creek website
www.creekaudio.com

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