192KHz UPSAMPLING 24 BIT DAC | M3SCD
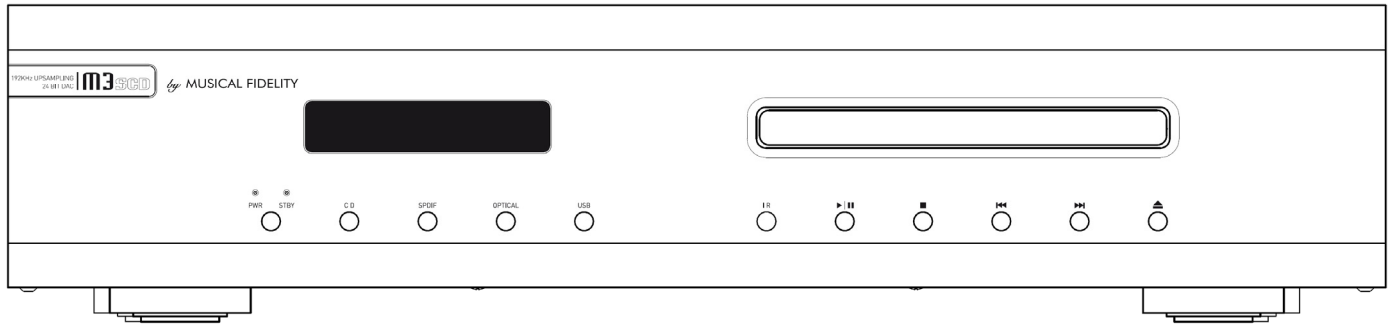
Instructions for use

Thank you for purchasing the Musical Fidelity M3SCD player.

The M3SCD consists of a top quality CD mechanism with unsurpassed playability. The M3SCD includes digital inputs to allow external digital audio sources such as TV, DAB tuners, computer, etc., to also benefit from its internal high quality DAC circuits. All connections thus use a top quality over sampling 24 bit 192 kHz up sampling digital-to-analogue converter. The up sampling action moves the digital artefacts to well outside the audio band, allowing easy removal without detriment to the top end of the audio band. Our well tuned filtering circuit gives immeasurably small jitter, noise and distortion artefacts allowing astounding imaging, detail and transparency, to deliver all music types exactly as the artist originally intended.

The M3SCD is designed to be partnered with present and future M3/M3s and M6/M6s series products. This combination yields one of the best high-fidelity systems available at any price.

Used properly and carefully, it should give many years of outstanding musical reproduction.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

If there are any questions about the audio system, please consult the dealer who is there to help and advise.

MUSICAL FIDELITY

SAFETY INFORMATION

CLASS 1 LASER PRODUCT

The M3SCD is a CD player which has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, sub-chapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as a Class 1 laser product. There is no hazardous radiation during normal use because invisible radiation emitted inside this product is completely confined within the protective housing. However you must observe the following important warnings:

CAUTION!

THIS CD PLAYER USES INVISIBLE LASER LIGHT. WHEN THE PLAYER OPERATES, LASER LIGHT IS RADIATED INTERNALLY. DO NOT REMOVE THE PROTECTIVE HOUSINGS.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE CAUSING EYE INJURY.

IF THIS PRODUCT DEVELOPS A FAULT, PLEASE CONTACT YOUR AUTHORISED MUSICAL FIDELITY SERVICE AGENT. DO NOT ATTEMPT TO SERVICE IT YOUR-SELF AND DO NOT CONTINUE TO USE THIS PRODUCT IN A FAULTY STATE.

INTERNAL LASER WARNING LABELS

**CAUTION!
CLASS 1
LASER
PRODUCT**

CAUTION	-	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICH!	-	UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÖBERBRÖCT IST. NICHT DEM STRAHL AUSSETZEN!
VARNING	-	OSYNLIG LASERSTRALNING NÄR DENNA DEL AR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRALEN AL FARLIG.
ADVARSEL	-	USYNLIG LASERSTRAKING VED ABNING, NAR SIKKERHEDSAFBRYDEREER UDE AF FUNCTION UNDGA UDSÆTTELSE FOR STRALING.
VAROITUSI	-	SUOJAKOTELOA EI SAA AVATA LAITE SISÄLTÄÄ LASERDIODIN, JOKA LAHETTÄÄ (NAKYMATONTA) SILMILLE VAARALLISTA LASERSATEILYA.

REAR PANEL
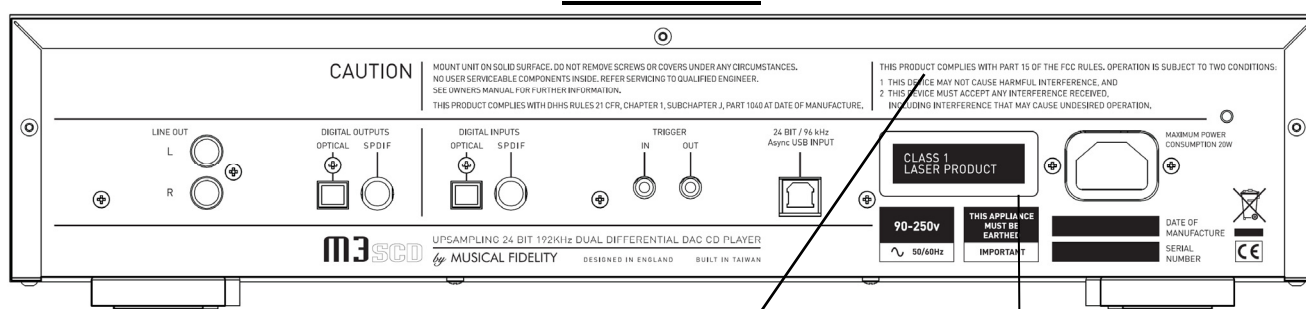
**THIS PRODUCT COMPLIES WITH DHHS RULES 21 CFR, CHAPTER 1, SUBCHAPTER J, PART 1040 AT DATE OF MANUFACTURE.
THIS PRODUCT COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO TWO CONDITIONS:
1. THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
2. THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.**

IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with mains lead fitted with a moulded 13 amp plug. If, for any reason, it is necessary to remove the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children.

It must not be plugged into a mains outlet.

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

> **Green and yellow ....Earth**
>
> **Blue.. Neutral**
>
> **Brown ....Live**

WARNING – This appliance MUST be earthed

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in the plug, proceed as follows:

• The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol:

• The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

• The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

• If connecting to a BS1363 plug, a 13 amp fuse must be used.

WARNING:

ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

Installation, Precautions & User Information

This new M3SCD is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

- Heed all warnings shown on the back of the product.

- Only connect the M3SCD to a mains outlet having the same voltage as marked at the back of the unit.

- Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.

- Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.

- Do not use near water, or place water-filled containers on the M3SCD, for example, a flower vase or potted plants. **If water does spill inside, immediately pull out the mains plug from the wall socket and inform the dealer, who should then check the unit before further use. Entry of liquid into the M3SCD is dangerous, and may cause electric shock or fire hazard.**

- Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.

- Do not remove any covers or try to gain access to the inside. There are no user adjustments or fuses to change without qualification. Refer all service work to an authorised Musical Fidelity agent. ** Note: Unauthorised opening of the equipment will invalidate any warranty claim.*

- Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents - they may harm the surface finish.

The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of the audio system during electrical storms, remove the mains plugs.

If after-sales service is required, to help the dealer identify the M3SCD please quote the serial number located on the rear panel of the unit.

Introduction

Congratulations on the purchase of the new M3SCD player. This unit will give top quality performance when used as a top quality CD player delivering the best performance possible from CD

Cleaning

Before cleaning the unit, switch off power at the mains switch and remove the mains plug from the wall socket. Clean the cabinet and remote control unit using a moist cloth. Using solvents, white spirit or thinners is not advised, as they could damage the surface finish.

Installation

Position the M3SCD on a stable, horizontal surface where there is no risk of it being knocked, or subjected to vibration such as from loudspeakers.

Important note:

In normal operation, the unit dissipates a small quantity of power at all times, and it is important that it is adequately ventilated. The top and bottom are perforated to allow the smooth flow of heat through the unit. It is therefore not recommended that the unit is enclosed in a cabinet or placed where the ventilation holes are impeded as this could result in excessive heat build-up.

The M3SCD must be protected from humidity – if the unit is moved from a cold place to a warm room, leave the unit for an hour or so to allow sufficient time for the moisture to evaporate.

Power Connections

The M3SCD is supplied with a standard IEC mains cable which plugs into the IEC socket at the back of the unit

Audio Connections

RCA line outputs: Use good quality well shielded RCA phono audio cables (fully connected signal and ground), for optimum signal transfer.

Digital Connections

RCA SP/DIF input: Connect RCA digital sources to RCA digital inputs. Use good quality fully connected (signal and ground) coaxial digital cables for optimum signal transfer.

Optical SP/DIF input: Connect optical digital source to optical input. Use good quality optical cables, for optimum signal transfer.

RCA SP/DIF output: Connect RCA digital receiver to RCA digital outputs. Use good quality fully connected (signal and ground) coaxial digital cables for optimum RCA digital signal transfer.

Optical SP/DIF output: Connect optical digital receiver to optical output. Use good quality optical cables, for optimum signal transfer.

USB (type "B") asynchronous input: Connect USB digital source (such as personal computer, PDA etc.) to USB input. Use good quality USB 2.0 cable, for optimum signal transfer.

Trigger Connections

Trigger input: Connect system triggering device output to this socket. Use good quality 3.5mm mono jack cable. Unit accepts 4.5V-15V DC triggering, either polarity.

Trigger output: Connect further devices in the system to be triggered into this socket. Use good quality 3.5mm mono jack cable. Unit passes on +12V DC at up to 60mA, for further devices.
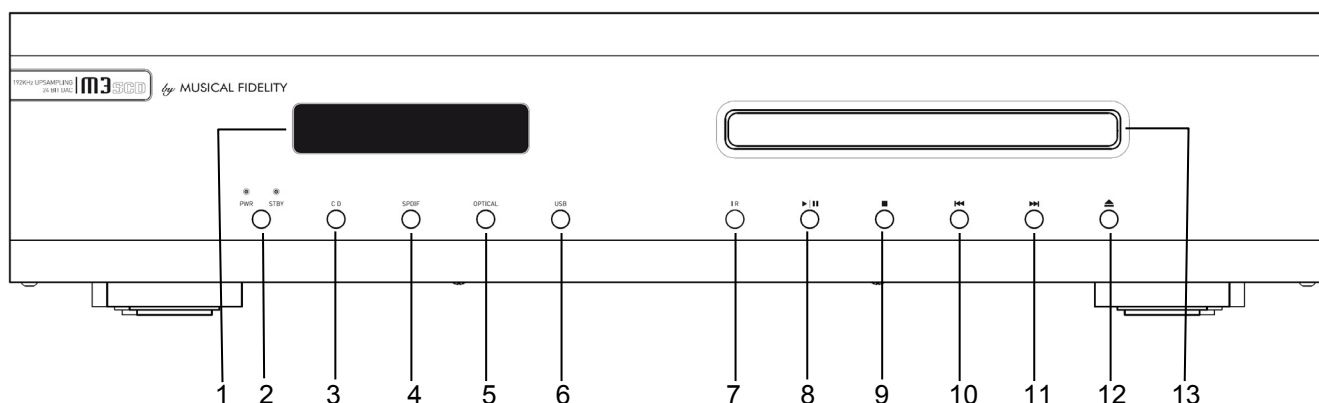
1 **DISPLAY**	7 **IR RECEIVER** lens
2 **POWER** ON/STANDBY button	8 ►|❚❚ - PLAY/PAUSE button
3 **CD** function select button	9 ❚ - STOP button
4 **SPDIF** input select button	10 |◄◄ - Track back button
5 **OPTICAL** input select button	11 ►►| - Track forward button
6 **USB** input selector button	12 ▲ - EJECT button
	13 **CD TRAY**
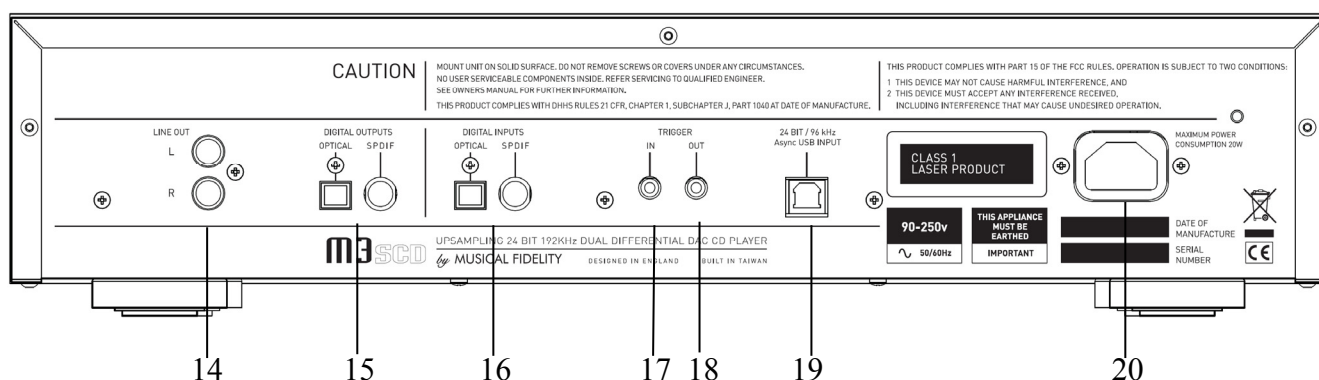
14 **RCA** line outputs	19 **USB** input
15 **SP/DIF COAXIAL & OPTICAL** digital outputs	20 **IEC** mains input
16 **SP/DIF COAXIAL & OPTICAL** digital inputs	
17 **TRIGGER** input jack	
18 **TRIGGER** output jack	

The universal remote control shown below enables functions from this and related units to be operated from a convenient distance.

Equivalent buttons on the remote control have the same functions as those on the front panel of the unit. Other functions are only available by remote control.

As the handset uses an invisible infra-red light beam, the front edge must be pointed directly towards the receiver window at the front of the player, without visual obstruction between them.

If the range of the remote control greatly decreases, replace the batteries with new ones. Do not mix old and new batteries – two are required, size AAA, LR03 or SUM-4.

Please dispose of used batteries in accordance to local regulations.

<u>CD player section (Grey buttons)</u>

REPEAT – repeats whole disk or selected tracks

INTRO – plays first 10 seconds of each track

A/B – sets repeat start/end to repeat section of track

PROGRAM – programs selection and order of tracks

CHECK – check pre-programmed tracks

►► – fast forward through track

TIME – displays track time/time remaining

I◄◄ – previous track

ll/► – pause/play button

DISPLAY – dims display

◄◄ – fast backwards through track

<u>Amplifier section (Blue buttons)</u>

VOLUME ▼ – reduces amplifier volume

CD – selects amplifier CD input

USB – selects amplifier USB input

AUX1/HT – selects amplifier AUX1/HT input

AUX2 – selects amplifier input

<u>CD inputs section (Grey buttons)</u>

SPDIF – Selects CD player SPDIF input

OPTICAL 1 – Selects CD player OPTICAL input
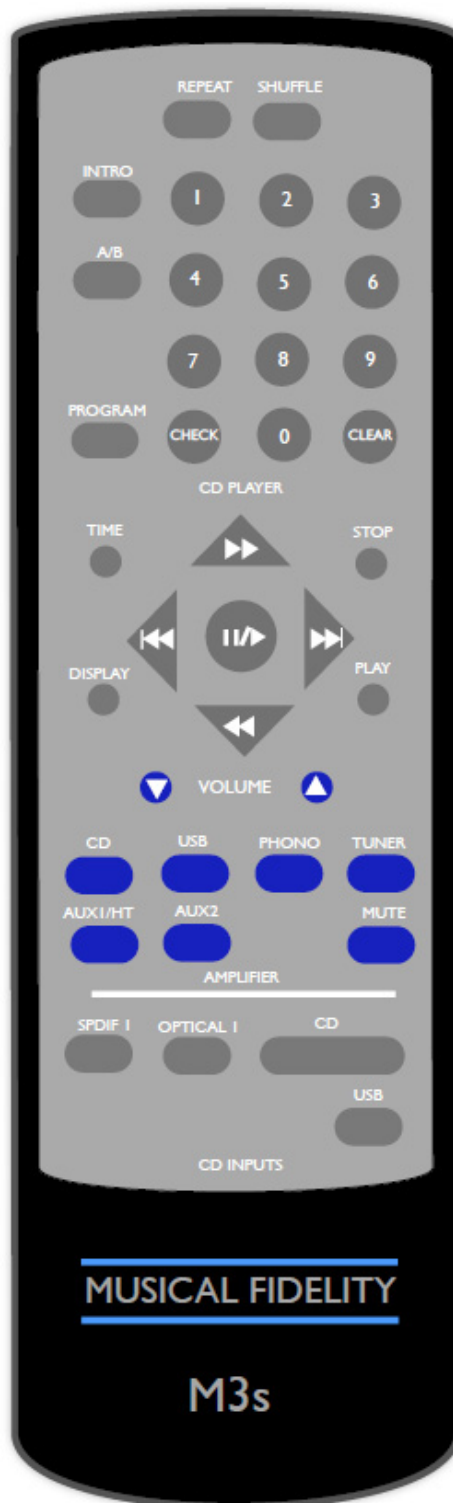
SHUFFLE – plays back tracks in random order

0-9 Buttons – Used to select track numbers

CLEAR – clears selected pre programmed track

STOP – Stop playing/Eject CD

►►I – next track

PLAY – start CD playback

VOLUME ▲ – increases amplifier volume

PHONO – selects amplifier PHONO input

TUNER – selects amplifier TUNER input

MUTE – mutes speaker outputs (until pressed again).

CD – Sets CD player in normal CD player mode

USB – Selects CD player USB input

CD PLAYER

Switch on unit. To load a CD load the CD into the tray, press the ▲ (eject) button so the tray comes out. The tray may then be closed by giving it a gentle push, or pressing ►|▐▐ (play/pause) button on the front panel or remote, or the ▲ (eject) button on the front panel

```
NO DISC
```

The unit will scan the contents of the disc. After a short delay, the display window then shows the total number of tracks available on the CD, and total playing time. In the following example there are 7 tracks, lasting a total of 41 minutes 56 seconds

```
STOP   7      41:56
```

PLAY ►|▐▐

If ►|▐▐ button on front panel or remote control is pressed, the unit will begin playing from track 1, confirmed by the word **PLAY** appearing on the left of the display, with **1** in the centre and elapsed time on the right.

```
PLAY   1       0:01
```

When all tracks on the CD have been played, the display shows **STOP** and total number of tracks on the disc.

PAUSE ►|▐▐

Pressing the ►|▐▐ button on front panel or remote control when disc is playing will halt playback. **PAUSE**

```
PAUSE  1       0:03
```

appears in the display windows instead of **PLAY**. The disc will continue spinning, but the track does not advance and the CD's output is muted. Pressing ►|▐▐ again resumes playback from the same place.

STOP ▐

Playback can be stopped at any time by pressing the ▐ button on front panel or "STOP" on the remote control.

```
STOP.  1       0:00
```

EJECT ▲

The CD may be removed by pressing the ▲ button on the front panel at any time. The CD will come out of the slot to approx 2/3rds of the way to allow easy removal.

TRACK SELECTION |◄◄ ►►|
To change track, the track skip buttons |◄◄ and ►►| on the front panel can be pressed to jump forwards or backwards one track in either direction.
Corresponding **TRACK** buttons on the remote control are marked |◄◄ and ►►|.
If the unit has stopped playing, a specific track can be accessed directly by pressing either |◄◄ or ►►| to obtain the required track number, then pressing ►|**▌▌**.

TRACK SELECTION BY NUMBER (Remote control)
A specific track can be selected directly by pressing one of the ten track number buttons grouped in the centre-section of the remote control. The chosen track then plays. To play a track number with two digits, press the second digit button on the remote control within this delay period, example for track 17:
Press **1**:

```
PLAY    1
```

Press **7**:

```
PLAY    17
```

After a small pause, machine plays selected track:

```
PLAY    17       0:01
```

Note: Track access will be faster on a disk with 9 or less tracks, due to the unit automatically not waiting for a second button press in the track number.
If a track number is chosen which is not available on the disc, the unit will ignore the entry.

TRACK SEARCH (remote control only) ◄◄ ►►
To play a particular part of a track, a search feature is provided. The search feature may be used to navigate forwards or backwards to find the required track part. The audio is heard in brief samples to aid searching.

```
)))              0:05
```

To search for a part ahead of the current track position, press the ►► button. The ► button will cancel and return to normal playing speed.

```
))) )))          0:15
```

To speed up the search, press ►► again. Pressing ►► a third time or ► reverts to normal playing speed.

To search for a part before the current track position, press the ◄◄ button. The ► button will cancel and return to normal playing speed.

```
(((              0:05
```

To speed up the search, press ◄◄ again. Pressing ◄◄ a third time or ► reverts to normal playing speed.

```
((( (((          0:15
```

REPEAT PLAYBACK

The **REPEAT** button on the remote control allows the repeated playback of either one track or all tracks on the disc.

By pressing the **REPEAT** button once, only the current track is repeated, and the display shows

```
PLAY   1        0:12
repeat track
```

If the **REPEAT** button is pressed a second time, "**repeat disc**" is displayed instead, and the entire disc is then played repeatedly.

```
PLAY   1        0:24
repeat disk
```

Pressing **REPEAT** a third time cancels repeat mode.

A/B PLAYBACK

"A/B" provides the option of playing just a certain section of the disc over and over again.

Find the beginning of the required section either by listening, or using the display time as a guide.

When the desired starting point is reached, press button **A / B** on the remote control.

The display will show

```
PLAY   1        0:34
repeat a-
```

When the disc has reached the end of the required section, press the **A / B** button again, to display

```
PLAY   1        1:55
repeat a-b
```

and the unit continuously plays the selected part of the disc in this case, the segment of track 1 from 34 seconds to 1 minute 55 seconds. To cancel A/B repeat mode, press **A/B** on the remote control.

SHUFFLE PLAYBACK

The SHUFFLE feature allows tracks on the discs to be played in random sequence rather than the normal consecutive order.

```
PLAY   1        0:34
shuffle once
```

Tracks are also played in a different order each time the disc is restarted, or another disc loaded. This function is obtained by pressing **SHUFFLE** on the remote control with the unit either stopped or playing. If the M3SCD is already playing, play will continue in random order until all tracks on the disc have been played.

Pressing **SHUFFLE** again will put the M3SCD in continous Shuffle mode, endlessly repeat the disk with the tracks in shuffled order

```
PLAY   1        0:34
Shuffle cont
```

Shuffle play is cancelled by pressing the **SHUFFLE** button a third time. The unit resumes normal play function, continuing to the end of the disc in normal order starting from wherever it was left by the previous random selection.

From pause, pressing ►|‖ also continues shuffle play.

If **REPEAT** is then pressed whilst in shuffle mode, machine reverts to repeat mode, cancelling shuffle function

```
PLAY   7        0:39
repeat
```

Pressing ►►| selects the next track in random order.

SCAN INTRODUCTION
The scan-introduction function allows play back of just the start of each track on the disc, for instance to locate a preferred track by ear.
Press **INTRO** on the remote control, and if the player has stopped, the display will show

```
STOP   74
scan disc
```

The first ten seconds (approximately) of each track on the CD can then be played in sequence by pressing either ►|❚❚ on the front panel, or ► on the remote control.
Press **INTRO** again to cancel introduction search mode. If **INTRO** mode is cancelled while the M3SCD is still playing, the remainder of the entire disc will be played.

PROGRAMMED PLAY
The built-in program memory allows you to store up to 30 track numbers and then play them back in the held order. Each track is stored as a "step" in the program.
With the CD loaded and the player stopped, first press **PROGRAM** on the remote control. The following is then displayed:

```
STOP.    74
program stp 01 tr 01
```

On the remote control, press the numeric button of the track number corresponding to the first track you wish to store (number 3 for example). That track number will now appear in the display:

```
STOP.    74
program stp 01 tr 03
```

If a second digit is required for the track number, it may be pressed directly after the first. When the track number is correct, press **PROGRAM** again on the remote control - the next program step is selected, **(program 2)** and the program number increases, ready for a new entry with previous programmed track number still displayed.

```
STOP.    74
program stp 02 tr 03
```

Continue entering track numbers in the same way up to a maximum of 30. If more than 30 tracks are attempted the memory will not accept any extra ones, and the display reverts to "**PROGRAM 1**".

If at any time you wish to add a track to the list, press the **CLEAR** button to obtain the next step number. Alternatively, to delete a previous entry, press **CLEAR** a second time to remove the last entry. Repeated pressing of **CLEAR** will then erase each step in reverse order. So to delete an entire program sequence from the memory, press **CLEAR** repeatedly until "**PROGRAM 1**" is shown in the display.
 When the last track number has been entered, press **PROGRAM** a final time, then the ►|▌▌ button to start the program sequence.

```
PLAY   1        0: 41
program play
```

If you wish to check the selection before playing back your program, the **CHECK** button can be pressed to step through each program entry in turn.
If during this check sequence the ►|▌▌ button is pressed, the remaining part of your programmed selection will play to the end of the sequence.
Otherwise, to play all the programmed tracks from the beginning of the sequence, press ►|▌▌, or ► on the remote control directly from programming. You can also start the sequence from any point by stepping through the programmed sequence with **CHECK** button until the desired starting track is displayed.

 The ►►| button may be pressed to jump to the next track in the programmed sequence, or |◄◄ button to obtain the previous track in the sequence.

When all programmed tracks have played, the CD player stops. The same track selection can then be played again by pressing the ►|▌▌ button on the front panel, or ► on the remote control.
To repeat a programmed sequence continually, press **REPEAT** whilst playing the program.

```
PLAY   1        0: 41
program rpt
```

To cancel this mode, press **PROGRAM**.

Note: The program contents will be cleared if you switch off the power, or load another disc. If, however, the same disc is loaded again with the power still switched on, the program sequence is retained in the memory.

TIME (remote control only)
 Pressing the TIME button displays the word TRACK followed by the current track elapsed time. Pressing a second time displays the word DISC then the total disk time elapsed.

DISPLAY (remote control only)
 The CD display brightness can be controlled in three levels and switched off, by pressing the **DISPLAY** button on the remote control.
The original setting is maximum brightness, but by pressing the **DISPLAY** button repeatedly, brightness is reduced, display off.

CD notes:

We advise caution with using cheap and/or computer type CD-R/RW disks for audio. To ensure optimum reliability and performance we recommend all home-generated CDs intended for playback on this unit are recorded as CDDA AUDIO CDs (the unit does not playback MP3, WAV, encoded disks) on good quality household brand AUDIO type CD-R/RWs; and burned at a slower speed, say, 16x.
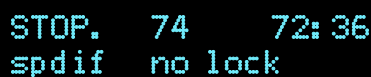
Remember - the most vulnerable part of a CD playing system is the disc itself. The most likely cause of a disc not playing is that the disc itself is faulty, scratched or simply dirty. Never open the case of the unit yourself, as this will invalidate the guarantee. If none of the above actions affect a cure, please contact your dealer or Musical Fidelity service agent.

192KHz UPSAMPLING
24 BIT DAC | M3SCD

This unit may be used with other digital source equipment such as DAB tuners, media streamers, TVs, set top boxes and computers to greatly enhance the sound from these sources. It switches the internal DAC and filter circuits to one of the digital inputs to allow the same up sampling of external digital source, to give highest quality analogue output, from the unit's RCA outputs.
Simply connect desired digital equipment to the inputs on this unit, using suitable cable.

SPDIF input
To use SPDIF coaxial input, simply press the SPDIF button on the front panel or remote control
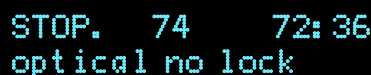
```
STOP.   74    72:36
spdif   no lock
```

If a valid SPDIF signal is detected, display will show 'locked'.

```
STOP.   74    72:36
spdif   locked
```

Optical input
To use OPTICAL input, simply press the OPTICAL button on the front panel or remote control

```
STOP.   74    72:36
optical no lock
```

If a valid OPTICAL signal is detected, display will show 'locked'.

```
STOP.   74    72:36
optical locked
```

Any input can be used for most devices, however bearing in mind the limits of the optical receivers it may be suggested that the OPTICAL input is used for lower bitrates such as tuner or TV stereo audio and the COAX socket is reserved for higher bitrate units greater than 96 kHz, if ever used.

Note: TVs, DVD/Blu-ray players and set top boxes sometimes output digital multichannel audio information. Such information is not recognised by this unit. To ensure correct operation of this unit, ensure manufacturer's instructions are followed to check that the digital outputs on such equipment is set to give 'PCM 44.1 kHz 16 bit stereo' or similar. PCM is the standard, which the unit supports. Other sample rate stereo PCM equipment is supported too, with 88.2, 96, 176.4 and 192 kHz sample rates on its COAX input and up to 96 kHz on its optical and USB inputs, all inputs up to and including 24 bits.

Connect the USB input to any PC/MAC using a good quality USB A to B cable not exceeding 4.5M.
To use USB input, simply press the USB button on the front panel or remote control

```
STOP.  74    72:36
USB    no lock
```

Play some music on the host computer.
When a valid audio data stream is detected, display will show 'locked'

```
STOP.  74    72:36
USB    locked
```

On the host computer, a new mixer will be available, which is the default mixer whenever the DAC is plugged in. Use this mixer to select the source or adjust levels if required. CD, MP3, WAV files played on any software should now play through the DAC. This device has been designed to work with Windows® 98, ME, 2000, XP, Vista, 7 and 8, Linux and Apple® OS
The computer drivers for the USB input of the M3SCD should install automatically. To check correct installation follow these steps:

PC users
Check the computer has picked up the device and is currently using it by clicking: (most Windows versions)
-         Start
-         Settings
-         Control panel
-         Sounds and Multimedia
-         Audio
Check "M3SCD 24/96" appears under PREFERRED AUDIO DEVICE tab.

Mac users
Check the computer has picked up the device and is currently using it by clicking: (MAC OS X®)
-         System preferences
-         Hardware
-         Sound
Check that "M3SCD 24/96" is selected under the OUTPUT tab.

If the computer's warning sounds/chimes are to played through the DAC, make sure it is selected under the SOUND EFFECTS tab too.
If you wish to have the music, only, played through it, deselect accordingly.

This device is a high speed serial data processor, and by its nature, requires a very high volume of USB bandwidth. It will benefit greatly from being the only device connected on its USB 'port'. Sharing the same port with other devices may cause unwanted artefacts such as dropouts or temporary loss of signal. This especially includes the use of the DAC on a USB hub/splitter alongside other USB components.

Please note the USB input does not work directly with iPhone® or iPod® products. To obtain digital output from such devices, please use a "dock with SP/DIF digital output" which can then be fed into either of the SP/DIF digital inputs provided on this unit.

Basic problem-solving with a CD player is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power / display	Power plug is not inserted into socket correctly	Plug in securely into unit's IEC socket.
No playback when disc is loaded, "NO DISC" displayed	Disc is loaded with label side down Incorrect disc type Dirty disc Moisture/humidity or cold affecting laser lens	Re-load with label side up Please load a standard audio CD Clean disk and try again Leave unit on for an hour to allow moisture to evaporate.
No audio output, or output too low	Incorrect or missing connections	Check connections are secure.
No Display	Power not on/connected Display brightness set to "off"	Check mains lead is connected and blue LED is lit by pushing "PWR/STDBY" button. Press "DISPLAY" button on remote to reactivate display. Set display to comfortable brightness level by pressing repeatedly.
Hum	Audio connector plug not fully pushed in Cable Fault Unsuitable Cable (e.g. cable grounds not connected)	Insert plug securely Check cable is connected at both ends. N.B. some esoteric cables have internal wiring intentionally disconnected/modified. For best results on all inputs analogue AND digital, please use good quality screened coax; signal and screen directly connected both ends.
Miss-tracking (sound jumping)	Player is receiving vibration or shock Disc is dirty Moisture/humidity or cold affecting laser lens.	Move player away from loudspeakers etc. Clean disc surface Leave unit on for an hour to allow moisture to evaporate.
No audio output from USB input	USB Cable not connected M3SCD USB Driver not selected	Check connections and make sure they are secure. See software section for relevant OS setup information Please check device is listed in device manager (Windows®) or in Sound, audio devices for MAC OS X. Make sure the Musical Fidelity USB audio device is selected as the default OUTPUT device. Check USB port functions with another device.
Not detected when connected to USB Dropouts in sound (USB input)	USB Cable faulty USB not working/enabled on computer Correct USB drivers not installed	Check and replace cable Check USB port functions with another device. Install the supplied device driver for Windows® XP/Vista 7. These operating systems do not, at time of writing support 24 bit 192kHz USB audio.
	Shared USB port with another device Computer busy with another application Computer low on resources (older computers in particular)	Avoid sharing the USB port with other devices, if possible. At times an application (program) may intervene, sometimes invisibly e.g. a virus scanner. When this happens, computer's resources are temporarily used up, and playback may suffer. This is not a fault. Try running fewer applications if possible.
Remote control range has reduced	Batteries are flat	Change batteries for a new set
	Control is not pointed directly towards the front panel of the player	Ensure there is no obstruction between the remote control and player front
	Batteries are running out	Change batteries – for a new set

COMPACT disc DIGITAL AUDIO TEXT

This product contains a CD mechanism, which complies with the PHILIPS/SONY red book CDDA standard. It is guaranteed to play all disks with the "compact disc digital audio" badge (see left), as well as good quality CD-R and –R/W discs without any problems.

Please note that due to "piracy" concerns, some record companies/pressing plants are creating disks that do not adhere to this standard. Such disks may –or- may not play in some –or- all CD player products of _any_ manufacturer. We advise caution in using these disks, as the information contained therein has been deliberately manipulated and can cause audio degradation and/or playability problems.

Output

Output impedance	50 ohms
Output, digital 0dB level	RCA output 2.2V R.M.S. nominal

DAC

DAC circuit	24 bit Delta-Sigma (bit stream) dual differential 8x over-sampling Up sampled to 192 KHz
Total correlated jitter	<135 picoseconds peak to peak
Linearity	<0.1 dB down to -96 dB
Frequency response	10Hz to 20 kHz -0.2 dB max.
Channel separation	>105 dB 20 Hz to 20 kHz
Signal-to-noise ratio	>117 dB "A"- wtd.
Total harmonic distortion	<0.003% 10Hz to 20 kHz

Connections

Audio outputs	1 pair RCA left and right line level outputs
Digital outputs	1 RCA coaxial SP/DIF up to 192 kHz 24 bit 1 optical SP/DIF up to 96 kHz 24 bit
Digital inputs	1 RCA coaxial SP/DIF up to 192 kHz 24 bit 1 optical SP/DIF up to 96 kHz 24 bit 1 USB async type B up to 96 kHz 24 bit
Trigger input	3.5mm (⅛") mono jack ±4.5 to ±15V DC
Trigger output	3.5mm (⅛") mono jack +12V DC

Power requirement

Mains voltages	90-250 VAC 50-60Hz universal
Power consumption	20 Watts maximum (blue PWR LED lit) Less than 0.5W in standby (orange STBY LED lit)

Weight

Unit only, unboxed	6.05 kg (13⅓ lbs)
in shipping carton	9.9 kg (21¾ lbs)

## Dimensions

Wide	440 mm (17⅓")
High, including feet	100 mm (4")
Deep (front to back) inc. terminals	380 mm (15")

Standard accessories

IEC type mains lead (10-Amp type)
M3s remote control
Batteries, LR03 or AAA, manganese alkaline type - 2 off

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.

C E

192KHz UPSAMPLING
24 BIT DAC **M3SCD**
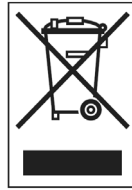
DISPOSAL

The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact local government office or retailer for available collection facilities.

DISPOSITION

La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes ROHS concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.

DISPOSAL

La etiqueta cruzada hacia fuera del compartimiento que aparece en el panel trasero del producto indica que el producto no se debe reciclarse como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otra basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.

RIFIUTI

L'etichetta del cassonetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio govenativo locale od il rivenditore del prodotto.

FACHGERECHTE ENTSORGUNG:

Das auf der Geräterückseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.

AFVAL

Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgehaald, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.

HÄVITTÄMINEN

Yliruksattua jäteastiaa kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalina talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kierrätettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen löytämiseksi.

AFSKAFNING

Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.

ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΡΙΨΗΣ

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RELEASE	DATE	CHANGES
M3SCD issue 2	07th January 2026	2nd issue, tray closing update