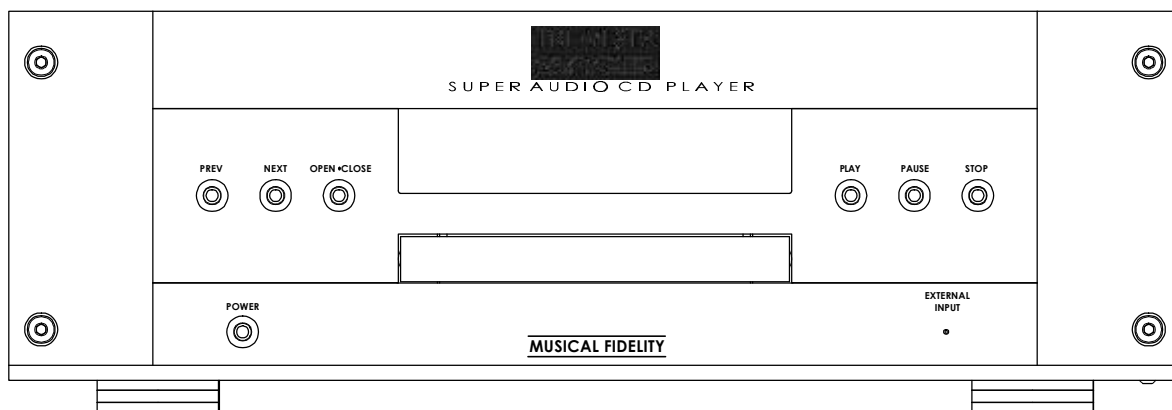


TRI-VISTA SACD

UPSAMPLING 24 BIT SUPER AUDIO COMPACT DISC PLAYER



INSTRUCTIONS FOR USE

Thank you for purchasing the Musical Fidelity Tri-Vista SACD 24 bit Super Audio Compact Disc Player.

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

This model uses the latest 24 Bit DAC technology and jitter reduction techniques to achieve both an excellent technical specification and unparalleled sound quality.

Aesthetically, the Tri-Vista SACD is a perfect match for the Tri-Vista 300 Integrated or Super Pre-amp which are part of our 20th Anniversary series. Together these components form one of the finest hi-fi systems available.

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 you have any questions about your audio system, please consult your dealer who is there to help and advise.



MUSICAL FIDELITY



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SAFETY INFORMATION

IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with a mains lead fitted with a moulded 13 amp plug. If, for any reason, you need to cut off 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 your 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.**

SAFETY INFORMATION

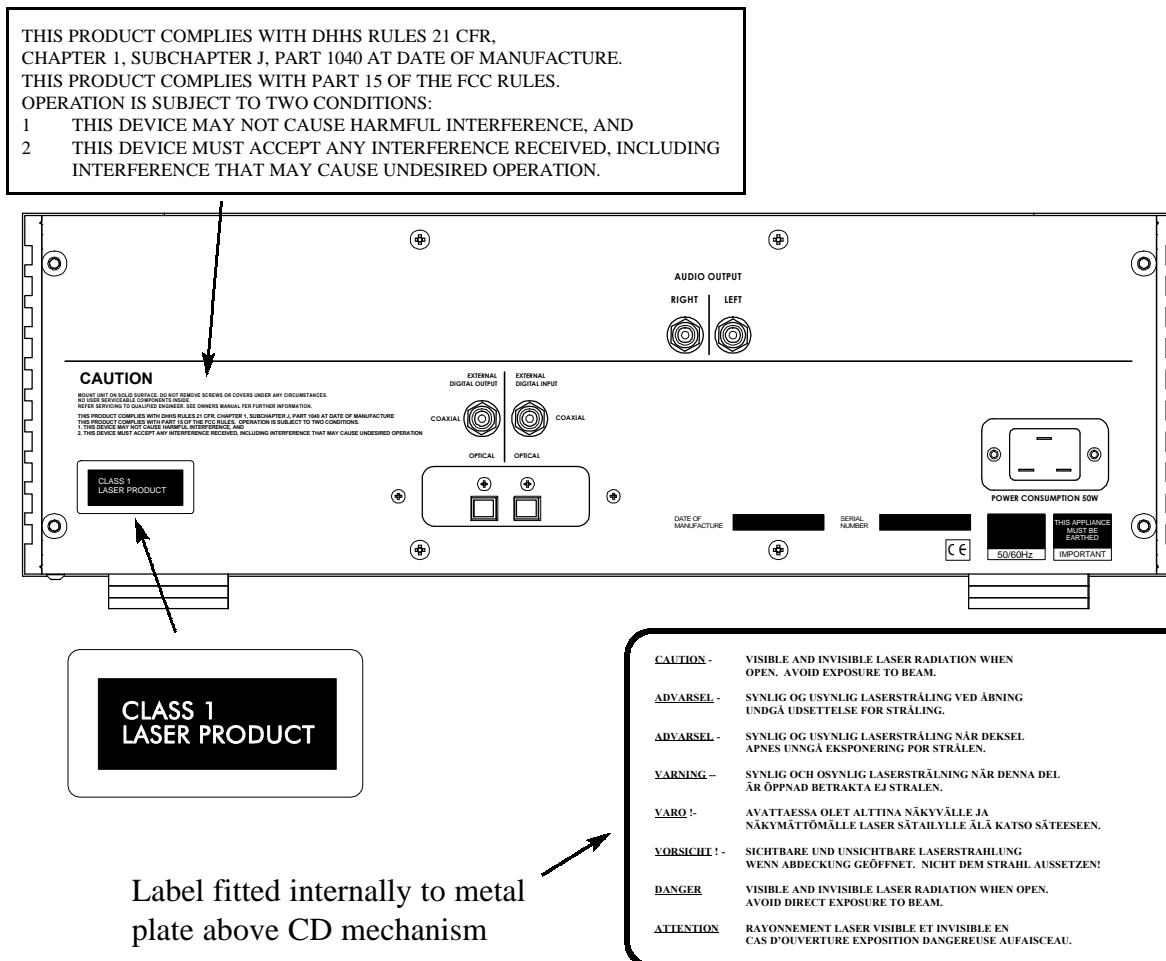
CLASS 1 LASER PRODUCT

This SACD player has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter 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 SACD 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 AUTHORIZED MUSICAL FIDELITY SERVICE AGENT. DO NOT ATTEMPT TO SERVICE IT YOURSELF AND DO NOT CONTINUE TO USE THIS PRODUCT IN A FAULTY STATE.**

WARNING AND INFORMATION LABELS:



Label fitted internally to metal plate above CD mechanism

USER INFORMATION

LASER INFORMATION:

Optical pick-up:	Manufacturer:	Semiconductor
	Laser type:	GaAlAs
	Beam divergence:	60°
	Wavelength:	780nm
	Output power:	10mW

RADIO - FREQUENCY INTERFERENCE (RFI)

This equipment uses and can radiate radio frequency energy, and if not installed and operated in accordance with the instructions, may cause interference to radio communications.

However, it is designed to radiate minimal levels of RFI, and accordingly been testing to North American standards (FCC regulations - limits for a class B digital device pursuant to part 15 of the rules). These requirements are intended to provide reasonable protection against excessive interference in a residential installation.

Conversely, the product has also been checked to ensure that its own operation is not adversely affected by normal background levels of RFI received externally.

However, if interference is experienced, for instance to radio or TV broadcasts, the user is recommended to try one or more of the following measures:

- Identify the source of interference by turning off power to the SACD player or other equipment individually, and checking whether the problem disappears.
- Re-orientate or relocate the receiving aerial.
- Move the SACD player away from the receiver.
- Connect the SACD player to a mains outlet on a different circuit from the receiver.
- Consult a dealer or experienced TV/radio technician for help.

If a problem persists, please contact Musical Fidelity's service department.

GENERAL ADVICE

INSTALLATION PRECAUTIONS and USER INFORMATION

Your new Tri-Vista SACD 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 Tri-Vista SACD 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 SACD player, for example flower vases or potted plants. **If water does spill inside, immediately pull out the mains plug from the wall socket and inform your dealer, who should then check the unit before further use. Entry of liquid into the player 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 internal user adjustments. Refer all service work to an authorised Musical Fidelity agent.

NOTE: Unauthorised opening of the equipment will invalidate any warranty claims.

There are fuses inside the Tri-Vista SACD. In the unlikely event that one blows, refer the unit to your audio dealer. Do NOT try to replace the fuse yourself as this will invalidate the warranty.

Dust regularly with a soft duster 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 your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

The remote control enables most functions of the SACD player to be operated from a convenient distance. Several of the features described in this manual are only available via the remote handset. Do not dispose of used batteries in a fire.

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

INTRODUCTION

INTRODUCTION

Congratulations on the purchase of your new Tri-Vista SACD upsampling 24 BIT SACD player.

This model uses the latest technology for the reproduction of both your CD and SACD collections.

The digital data stream is first up-sampled to 192kHz, which moves noise, jitter and distortion artefacts well above the audio band. It is then passed through a new, low noise, low distortion 24-bit digital-to-analog convertor operating at 192kHz, which allows simpler filtering of the analog output. This in turn gives an improved audio response without the need for sharp filters that degrade sound quality. The result is a CD player which gives a smoother response than previously possible with none of the “hardness” of other players.

The Tri-Vista SACD is part of our 20th Anniversary series (SACD, Tri-Vista 300 Integrated, Super Pre and Super Power) and when used with any of these will give results that are as good as it gets.

NOTES ON USING DISCS

Always hold CDs or SACDs by the edges and make sure they remain clean. Do not touch the surface, or stick paper or adhesive tape to either side of the disc. Keep them away from direct sunlight and heat sources, such as radiators. Do not leave discs in a car parked in direct sunlight, as the temperature inside the car can become extremely high. Clean with a cloth before playing them, but do not use solvents, such as benzene, thinners, commercially available cleaners or antistatic spray intended for analogue records. After playing, always return the disc to its case for storage.

CLEANING

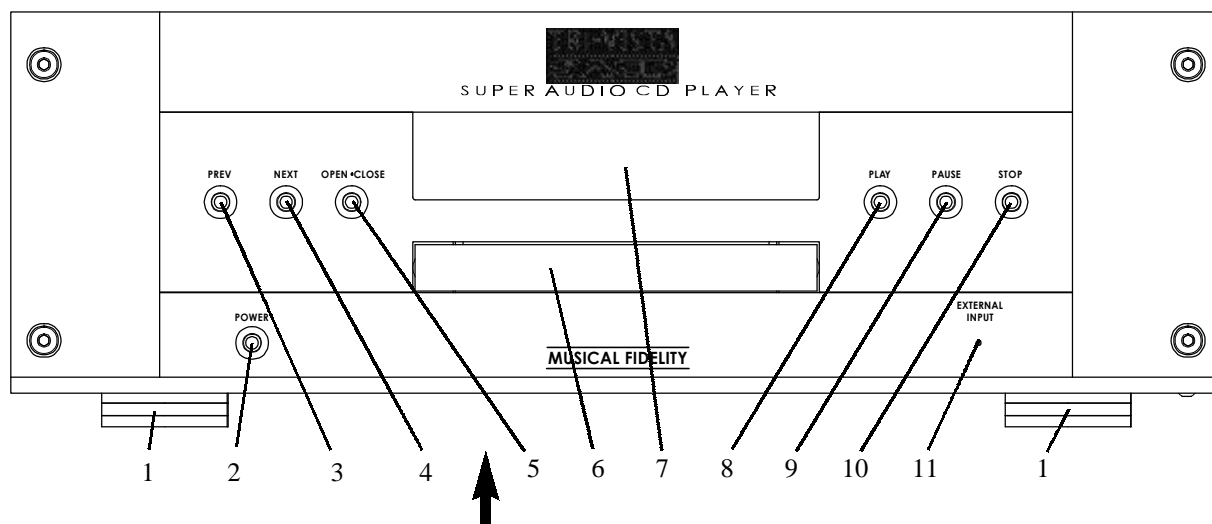
Before cleaning the SACD player, always turn off the power at the mains switch and remove the mains plug from the wall outlet. Clean the housing and the remote control unit using a moist cloth. We do not advise the use of solvents, white spirits or thinners, as they could damage the surface finish of the unit.

INSTALLATION

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

Protect your SACD player from humidity - if the unit is moved from a cold place to a warm room, moisture can form on the pick-up lens inside the player, preventing the laser beam from reading the disc. If this happens, remove the SACD, close the disc drawer, and leave the unit switched on for an hour or so to allow sufficient time for the moisture to evaporate.

FACILITIES AND CONNECTIONS

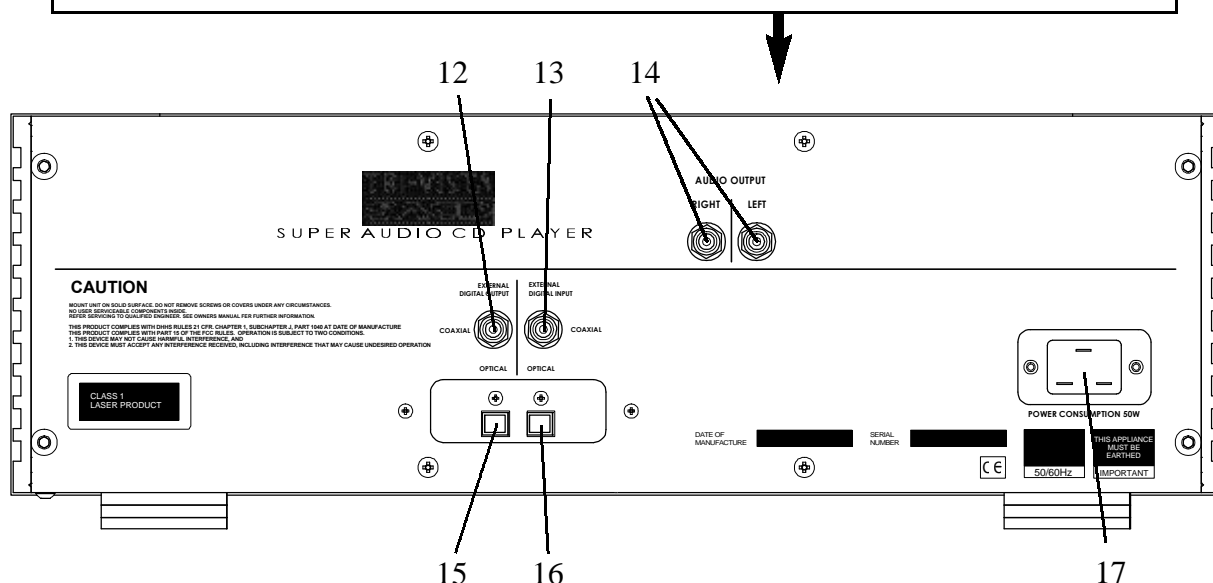


FRONT PANEL

- | | |
|--|--|
| 1 Illuminated feet with multi-colour indicator LEDs for power and mute | 6 Disc transport loading drawer |
| 2 POWER mains on/off switch | 7 Disc player display (incorporates infra-red remote control receiver) |
| 3 PREVIOUS track selector | 8 PLAY to start disc playback |
| 4 NEXT track selector | 9 PAUSE to interrupt playback |
| 5 OPEN/CLOSE to open and close the disc drawer | 10 STOP to end disc playback |
| | 11 External input indicator LED |

REAR PANEL

- | | |
|---|------------------------------------|
| 12 DIGITAL OUTPUT , co-axial | 15 DIGITAL OUTPUT , optical |
| 13 DIGITAL INPUT , co-axial | 16 DIGITAL INPUT , optical |
| 14 AUDIO OUTPUTS , left and right, RCA | 17 IEC type mains inlet |



REMOTE CONTROL

Remote control buttons shown below enable disc player functions to be operated from a convenient distance. Remaining buttons on this universal handset are for use with other Musical Fidelity products, and have no effect on the Tri-Vista SACD player.

Equivalent buttons on the remote handset have the same functions as those on the front panel of the unit. **SEARCH** and special functions (see pages 13 and 14) are only available by remote control.

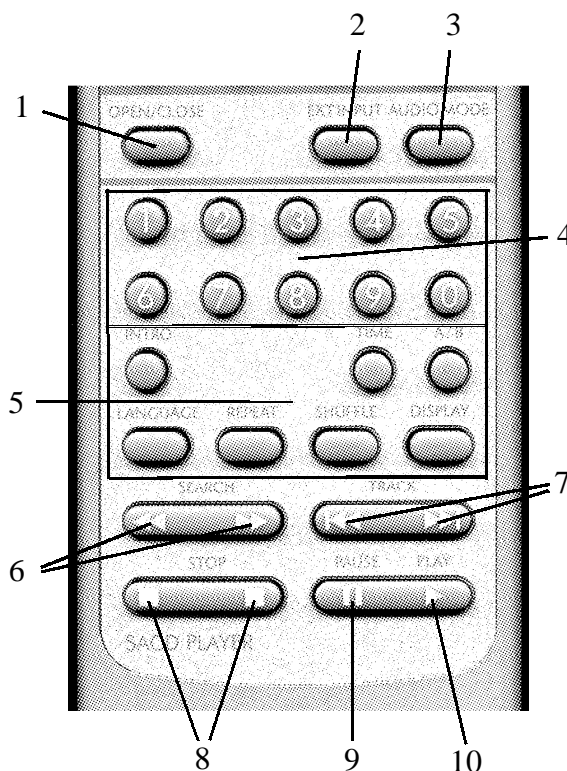
As the handset uses an invisible infra-red light beam, the front edge must be pointed directly towards the receiver window at the front of the player, without visual obstruction between them.

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, type SUM-4, AAA or LR03.

REMOTE CONTROL

(Disc functions only)

- 1 **OPEN/CLOSE** disc tray
- 2 **External digital input selector**
(see page 14)
- 3 **SACD / CD layer selector**
(see page 14)
- 4 Direct track access buttons
- 5 Special function buttons
- see pages 13 and 14
- 6 **SEARCH** buttons to scan
forwards or backwards
- 7 **TRACK** back/forwards buttons
(equivalent to **PREVIOUS** and
NEXT buttons on player front)
- 8 **STOP** to end disc playback
- 9 **PAUSE** to halt disc playback
temporarily
- 10 **PLAY** to begin disc play or resume
play after pausing



BEFORE CONNECTING

Ensure that mains power to the various components of your audio system is switched off. Please note that audio connecting leads are not supplied with this product.

MAINS POWER CONNECTION

Finally, insert the accessory IEC mains lead plug into the rear panel socket, then the other end into a convenient wall outlet, and switch the power on.

OUTPUT CONNECTION

The Tri-Vista SACD should be connected to an analogue amplifier input by audio cables with RCA/phono type plugs. These link the left and right AUDIO OUTPUT sockets on the rear panel of the CD player to corresponding line input sockets on the amplifier. Do not use any sockets on the amplifier intended for “vinyl” phono cartridge input, as the sensitive circuit will overload, producing a severely distorted sound.

Alternatively, the DIGITAL OUTPUTS (coaxial or optical) can be used for connection to suitable digital equipment.

All three types of output can be used for feeding different equipment at the same time, if required.

INPUT CONNECTION

The internal D-to-A convertor will also convert digital data from any PCM (SPDIF) source to analog audio, but not data from AC3, Minidisc, or MP3 formats.

Digital inputs are therefore provided for one of two sources, optical or co-axial - see page 14.

Do not connect both co-axial and optical leads at the same time. However, if this is done accidentally, the first input connected will take priority in operation.

BASIC OPERATION

STARTING

Press the **POWER** button on the Tri-Vista SACD player.

The LEDs in the feet of the unit will light red for about fifteen seconds indicating that all outputs from the unit are muted. Feet illumination then fades over approximately five seconds to amber, indicating that output is no longer muted, and that your Tri-Vista SACD player is now ready for use.

However, after a further period of about 35 minutes, the colour fades to blue, confirming that the player has fully warmed up.

LOADING AND PLAYING DISCS

If mains power to the Tri-Vista SACD player is switched on with a disc already loaded, it will automatically read the disc and display the total number of tracks available on it, and total playing time, for example:



However, if no disc is loaded, the unit will display "READ" then "SACD".

To play a disc, press the **OPEN/CLOSE** button to open the transport drawer. When the drawer is fully extended, insert the required disc with the label facing upwards and then press either the **OPEN/CLOSE** or **PLAY** button to close the transport drawer again.

If **OPEN/CLOSE** has been pressed, the disc drawer closes and the player scans the contents of the disc. After a short delay, the display window then shows the total number of tracks available, and total playing time, as in the previous example: →

DISC PLAY

If **PLAY** is pressed, the display will briefly show "PCM 2/0" to confirm that the disc loaded is a Compact Disc, or "DSD 2/0" if the disc is an SACD. Note that these indications will only appear the first time either type of disc is loaded and played.

The unit will then begin playing, and current track and remaining track time will be displayed similar to the following example:



(If an SACD is being played, SACD appears instead of CD to the left of the display).

When all tracks on the disc have been played, playback stops and the display reverts to the same track content and total playing time indication as when first loaded.

PAUSE

Pressing the **PAUSE** button whilst a disc is playing interrupts playback of the disc. A pause symbol (II) appears in the display window between track number and time indication:



The disc will continue spinning but the track does not advance and the Tri-Vista SACD's output is muted.

Pressing **PLAY** again resumes playback from the same place.

STOP

playback can be stopped at any time by pressing the **STOP** button once.

BASIC OPERATION

TRACK SELECTION

To change track, briefly press the track skip buttons **NEXT** or **PREVIOUS** to jump forwards or backwards one track in either direction. Note that a single press of the **PREVIOUS** button restarts playback at the beginning of the current track. A double-press is needed to jump back to the previous track. Corresponding **TRACK** buttons on the remote control are also marked |<< and >>|.

If either button is held down for more than about two seconds, the Tri-Vista SACD will not jump tracks, but instead enter search mode (see below), skipping approximately 4 or 5 seconds of playing time in the appropriate direction. To revert to normal playback, press **PLAY** again.

TRACK SELECTION (Remote control)

A specific track can be selected directly by pressing the required track number button on the remote control. The chosen track then plays immediately.

To play a track number with two digits, the second digit must be pressed within one second of pressing the first button.

SEARCH

The **SEARCH** buttons can be used to fast-forward or fast-rewind during playback in a similar way to a video or tape cassette player, allowing location of particular passages at high speed. When using this function, CD playback remains audible, but not when searching on SACD.

Briefly pressing the forward-search button (>>) fast winds forwards whilst the search backwards button (<<) fast winds backwards.

As the unit searches through a track, the track time display (far right digits) will be seen to advance rapidly in the required direction by approximately 4 or 5 second play intervals. Press the **PLAY** button to return to normal playback.

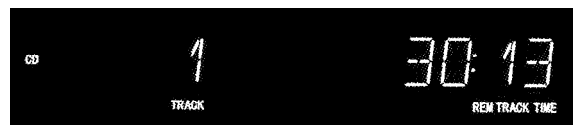
DISPLAYING PLAYBACK TIME

There are two playback time display modes obtained alternately by pushing the **TIME** button on the remote control. The normal mode (e.g. after switch on) shown below indicates the elapsed time for the currently playing track:



(1 minute 23 seconds in this example).

Pushing the **TIME** button once changes the display to show the remaining time for the current track:



(30 mins 13 seconds in this example).

Pushing the **TIME** button again reverts the display to show elapsed time.

SPECIAL FUNCTIONS

REPEAT PLAYBACK

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

By pressing the **REPEAT** button once, you can repeat the current track over and over again. The display then shows “REPEAT” and “TRACK” as in this example:



If the **REPEAT** button is pressed a second time, the entire disc is replayed indefinitely. In this case, “REPEAT” and “ALL” are shown in the display:



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

A-B REPEAT PLAYBACK

“A-B repeat” 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 **REPEAT** and the letter **A**.

When the disc has reached the end of the required section, press the **A/B** button again. Letters **A-B** will now be illuminated in the display, and the unit continuously plays the selected part of the disc.

To cancel A-B repeat mode, press **A/B** again 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.

This function is obtained by pressing **SHUFFLE** on the remote control with the unit either stopped or playing. “SHUFFLE” then appears in the display to confirm that the function is active.

Briefly pressing either the track **>>|** button on the remote control or **NEXT** on the unit will make the player jump to the next random track.

Press **SHUFFLE** again to cancel. If the Tri-Vista SACD is still playing a shuffled track, play will continue in normal sequence until the remainder of the disc has finished.

To cancel shuffle play immediately, press **STOP**.

INTRODUCTION SCAN

The introduction-scan function allows playback of just the start of each track on the disc, for instance to locate a preferred track by ear.

With the Tri-Vista SACD stopped, press **INTRO** on the remote control. “SCAN” appears in the display.

The first ten seconds (approximately) of each track on the disc are then played in succession.

If, however, the unit is already playing when **INTRO** is pressed, only the remaining tracks on the disc will be scanned.

Press **STOP** to cancel introduction scan mode.

SPECIAL FUNCTIONS

USING DIGITAL INPUTS

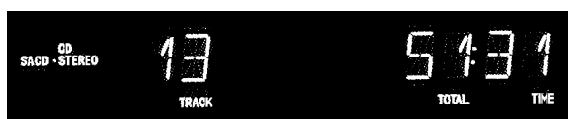
The Tri-Vista SACD can also be used as a separate digital-to-analog convertor if required, using either the “Toslink” digital optical input or the co-axial RCA digital socket. Do not attempt to use both types of digital input at the same time.

Simply connect either of these inputs to a suitable external digital source, then select external input by pressing **EXT INPUT** on the remote control. A blue LED indicator on the right of the front panel will light to confirm that an external source has been selected.

Remember to switch off this function when not needed by pressing **EXT INPUT** again, as otherwise the built-in CD output will not be available from the rear sockets.

SACD AUDIO FORMAT SELECTION

Some SACD discs are manufactured with a choice of two digital formats which are recorded at different depths, or layers, under the disc’s surface. The normal mode when playing SACDs in your Tri-Vista is “DSD” (Direct Stream Digital):



However, if **AUDIO MODE** on the remote control is pressed with a dual-layer SACD disc loaded, the alternative “PCM” (Pulse Code Modulation), normally only used for CDs is obtained. This is therefore confirmed by the .cd indicator in the display, even though an SACD disc has been loaded:



DISPLAY BRIGHTNESS

The Tri-Vista SACD’s display brightness can be adjusted in three levels by pressing the **DISPLAY** button on the remote control.

When first powered on, the display has maximum brightness.

Pressing the **DISPLAY** button once dims the display.

Pressing a second time reduces brightness by a further amount.

Pressing a third time reverts display brightness to its original switch-on state.

PROBLEMS ?

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

<i>Problem</i>	<i>Probable Cause</i>	<i>Remedy</i>
No power when POWER button is pressed	Power plug is not inserted fully into rear socket	Plug in securely.
No playback when a disc is loaded, and “SACD” displayed	Disc is loaded with label side down	Re-load with label side up.
No audio output	Connection to the rest of the stereo system is incorrect External input button has been accidentally pressed on the remote control	Check connections. Press the EXT INPUT button again to cancel
Sound is severely distorted, and volume control needs to be turned down very low.	The SACD player’s audio lead is connected to phono input sockets on the amplifier	Re-connect lead to auxilliary sockets or other “line level” amplifier input.
Mistracking (sound jumping)	Player receiving vibration or shock Disc is dirty	Change position of player away from loudspeakers. Clean disc surface.
Hum	Audio connector plug not fully pushed in	Insert plug securely.
Interference noise heard from radio tuner	Player too near tuner	Keep a reasonable distance between player and tuner, or switch off player power.
Remote control does not work	Player’s POWER switch set to off One or both batteries inserted the wrong way round Batteries are flat Remote control is not pointed directly towards the front panel of the player	Set switch to on. Insert batteries correctly. Change batteries - do not mix old and new ones. Ensure there is no obstruction between the remote control and player front.
Remote control range has greatly reduced	Batteries are running out	Change batteries - do not mix old and new ones.

Remember - the most vulnerable part of an SACD / CD playing system is the disc itself. The most likely cause of a disc not playing is that the disc is faulty, scratched or simply dirty. Never open the case of the Tri-Vista SACD yourself, as this will invalidate the guarantee. If none of the above actions effect a cure, please contact your dealer or Musical Fidelity service agent.

Tri-Vista SACD

UPSAMPLING 24 BIT SUPER AUDIO COMPACT DISC PLAYER

DAC architecture 24 bit Delta-Sigma (Bitstream)
Dual differential
8x oversampling

Disc mechanism Philips

Upsampling 192kHz

Analog output impedance 50 Ohms

SACD:

Frequency response	10Hz to 20kHz ref. 1kHz	+0 / -0.1dB
	10Hz to 30kHz ref. 1kHz	+0 / -0.3dB
	10Hz to 40kHz ref. 1kHz	+0 / -1.6dB
	10Hz to 50kHz ref. 1kHz	+0 / -4.8dB
Signal / noise ratio (digital mute)		> 110dB "A" weighted
Total harmonic distortion		< 0.001% at 1kHz
Channel separation		> 98dB 10Hz to 20kHz
Linearity error, 1kHz		0dB at -100dB, 0.2dB at -110dB
Audio output at digital 0dB level		2.4VRMS at 1kHz nominal

CD or external digital input:

Frequency response, 10Hz to 20kHz ref. 1kHz	+0 / -0.05dB
Signal / noise ratio	> 110dB "A" weighted
Total harmonic distortion	< 0.002% 10Hz to 20kHz
Channel separation	> 90dB 10Hz to 20kHz
Linearity error, 1kHz	0dB at -80dB, 0.7dB at -90dB
Audio output at digital 0dB level	2.35VRMS at 1kHz nominal
Jitter	150pS

Power requirement: 100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set),
50 Watts

Digital inputs: 1 optical (Toslink),
1 S/PDIF (RCA connector)

Outputs: Analog: 1 pair RCA connectors
Digital: 1 optical (Toslink),
1 S/PDIF (RCA connector)

Weight: 23 kg, 51.5 lbs unit only, unboxed
25 kg, 56 lbs in shipping carton

Dimensions: 480 mm, 18.9 inches wide
165 mm, 6.5 inches high including feet
380 mm, 15 inches deep including terminals

Standard accessories: IEC type mains lead (16 Amp type),
Remote control (Tri-Vista type),
Two batteries (type SUM-4, AAA, LR03)



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