



M A R A N T Z.

N O T F O R T H E

C A S U A L

L I S T E N E R.

marantz®

PURE HIGH FIDELITY

For decades, Marantz has made hi-fi equipment for a certain kind of listener. The kind that really appreciates the difference between sound and music. After all, any amplifier and speaker can reproduce sound. But the realistic reproduction of music creates an entirely different experience. Once you have listened with Marantz equipment you will know what we mean. The difference is something we call Pure High Fidelity. It refers, in part, to the quality of the stereo image. This is what gives the music its perspective. Its height, width, depth.

In fact it creates a three-dimensional impression of total reality.

So when you listen to Wagner you can actually visualise the orchestra before you in all its magnitude.

You can hear the violins on the left in the foreground, the cellos and double bass on the right and the

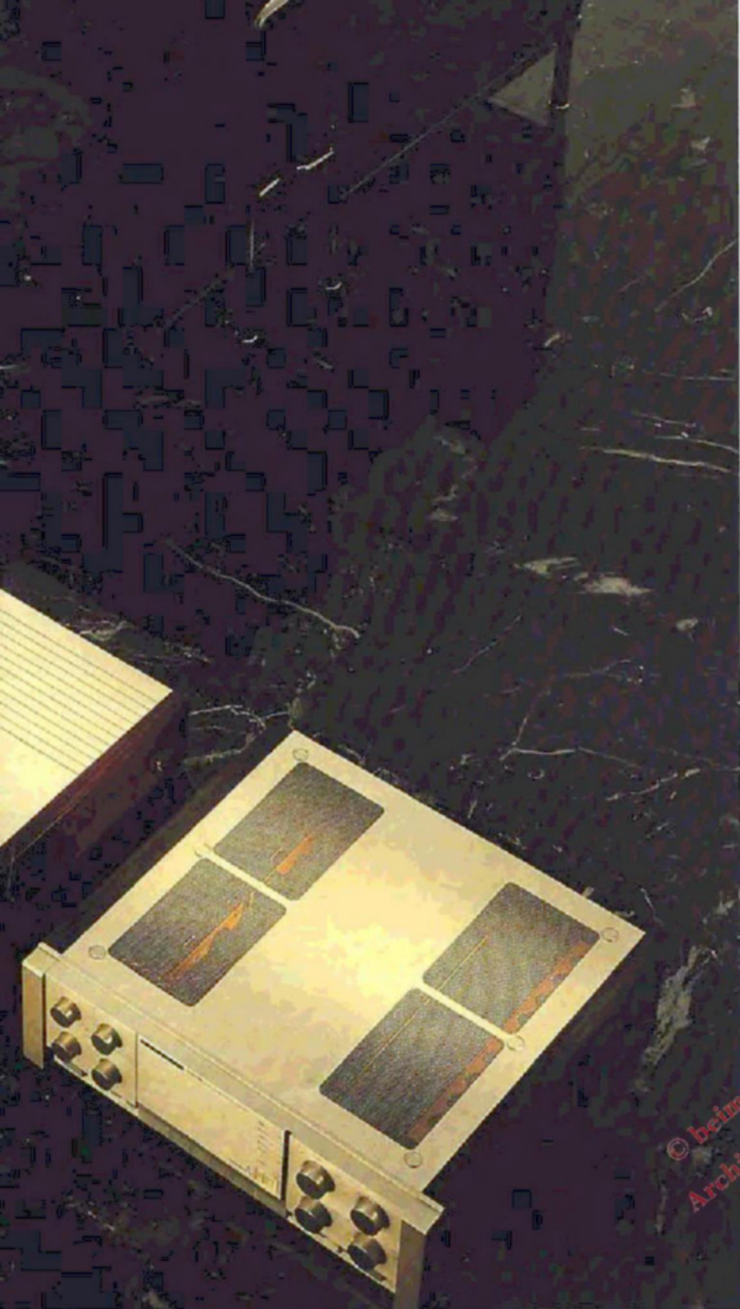


M A R A N T Z.

N O T F O R T H E

C A S U A L

L I S T E N E R.



© beim Hersteller
Archiv Michael Otto

woodwind and percussion behind them.

When you listen to Chopin, it is as if the grandeur of a Steinway piano were right there in your living room. Perfect stereo image means you can hear the different positions of the players in a band or of the bass and tenor singers in a choir.

That's how realistic Marantz reproduction is. Over thirty years ago, our founder Saul Marantz said, 'for us, the realistic reproduction of music is the essential premise.' These words set the standard that continues to this day. After all, there is only one ultimate test of musical perfection – listening.

marantz®
PURE HIGH FIDELITY

DIGITAL AMPLIFIERS.

The amplifier that can directly accept today's digital sources is one step ahead of the game.

If the amplifier can handle raw digital signals an unnecessary stage of amplification can be cut out and sound quality further improved.

A digital amplifier performs the digital - to - analogue conversion immediately before power amplification. The digital circuits in Marantz digital amplifiers are to the same demanding standards that set our CD players apart from the crowd.

Selected four times oversampling 16-bit digital-to-analogue converters (DACs) are used to give improved linearity with low level signals for added refinement and purity of sound.

Resolving power, detail and stereo imaging are further improved by newly developed digital filtering and jitter elimination circuits. These improve distortion across the entire bandwidth. High treble signals show considerable reduction in distortion.

Matching the clarity and dynamics of digital sources Marantz digital



PM 95

DIGITAL AUDIOPHILE AMPLIFIER

■ 2x125W RMS power into 8 Ohms ■ True Class A mode (20W) for unequalled purity of sound ■ High-speed, low distortion MOS FETs ■ Linear Drive Power Supply (LDPS) ■ High-Resolution (HR) circuitry ■ Motorized two-gang conductive plastics volume control ■ Selected four times oversampling 16-bit digital-to-analogue converters ■ Jitter elimination circuits and phase-linear 9th order GIC filter ■ Compatibility with all digital sources (32, 44.1 and 48kHz sampling frequencies) ■ Digital direct switch by-passes selector and balance control ■ Aluminum die-cast chassis and solid aluminum top-plate ■ Gold-plated connectors for all inputs and outputs switched by relay ■ Separate analogue and digital sound processor in/out sockets and recording selectors ■ All digital power supplies are cut when using analogue input for improved noise performance

RC 95

REMOTE CONTROL

■ Intelligent table-top remote with LCD display ■ Pre-programmed for 10 components with a memory for 20 ■ Head-to-head Learning mode can memorize commands from other infra-red remote control units for use with other components



amplifiers are of true high power capability and audiophile performance with Digital Direct switching.

Remote control convenience has not been overlooked. Both digital amplifiers feature full remote control of input switching and of volume from the listening position.



PM 75

DIGITAL AUDIOPHILE AMPLIFIER

■ 2x100W RMS power into 8 Ohms ■ High-speed, low distortion MOS FETs for drivers ■ Triple independent (LDPS) power supplies ■ High Resolution (HR) circuitry ■ Motorized four-gang two-stage volume control ■ On-board selected four times oversampling 16-bit digital-to-analogue converters (DACs) ■ Extraordinary transparency from jitter elimination circuits and phase-linear 7th order GIC filter ■ Compatibility with all digital sources (32, 44.1 and 48kHz sampling frequencies) ■ Expedient Tone Control (ETC) - alters the fundamental and harmonics at frequency extremes without changing real music content ■ Moving-coil phono amp ■ Three electronic digital inputs and one electronic digital output, one optical digital input ■ Source Direct with tone control by-pass ensures outstanding purity ■ Recording selector for digital and analogue sources ■ Remote control

ANALOGUE AMPLIFIERS.

Pure power delivered into real-world loads – the Marantz goal in designing its Audiophile amplifier range.

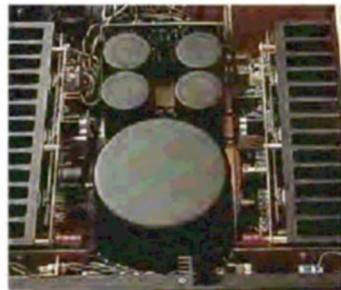
Recognising some users need more power and more facilities Marantz designs all its amplifiers from the mighty PM 94 to the PM 25 to offer the best possible sound quality for the price.

The materials and techniques employed are those you would normally associate with esoteric audiophile or 'high-end' product. Years of research into component performance backed by extensive listening tests in Japan and Europe help us produce consistently good amplifiers with superb musical performance.

Special attention is paid to the design of our power supply stages. Components in critical circuit areas are specially chosen or custom built to give the most transparent, the cleanest sound.

Today's amplifier may find itself as the heart of a home entertainment system, required to switch video and video sound signals. This need not compromise the sound of the CD, line and phono

stages. Though offering the convenience of multiple source switching Marantz amplifiers can instantly convert to a straight-line audiophile amplifier through the CD/Phono Direct switch. This bypasses all unnecessary circuits in the pursuit of pure sound.



Inside PM 94

Class A and Quarter A.

Class A amplification is the audiophiles' dream. It offers a sweeter, purer sound than the more efficient Class AB. Running the power output devices in their most linear region avoids distortion inherent in all other forms of amplification but this comes at the cost of efficiency. Top Marantz amplifiers offer switchable Class A operation for the purest sound.

Marantz Quarter A amplification gives pure Class A up to one quarter the maximum amplifier output power. Above this point the amplifier runs in regular Class AB mode up to its maximum power output. The change over occurs smoothly and automatically in three stages, the amplifier accurately sensing the current and voltage drawn by the speakers.

The Marantz Quarter A technique

© beim Hersteller
Archiv Michael Otto

offers the unsurpassed clarity of Class A with the safety headroom of a powerful AB amplifier. Quarter A amplification ensures subtle detail and stereo imagery with an ability to drive home the loudest peaks from modern recordings.

LDPS.

The loudspeaker specification may read 8 Ohms. But loudspeakers do not present a constant load. Loudspeaker impedance changes with frequency. The load the speaker places on the amplifier varies all the time the music changes.

An ideal amplifier keeps voltage constant irrespective of this changing loudspeaker impedance. In this way current has to vary. To achieve this the amplifier needs a bottomless power supply - one with a very low impedance - from which to draw its energy. And the power supply impedance has to be kept low across the bandwidth across which the amplifier is operating.

Marantz Linear Drive Power Supply (LDPS) gives the answer.

LDPS is a low impedance, wide-



LDPS Linear Drive Power Supply

bandwidth DC power supply. It ensures the tonal and dynamic fidelity of Marantz amplifiers even into difficult loudspeaker loads.

Protection.

Protection circuits present problems to the audio designer. Protection can ruin the sound of the amplifier it is meant to protect - the badly protected amplifier lacks dynamics. Marantz amplifiers do not use current limiting protection. Instead Marantz protection senses Direct Current, anomalous temperature changes and short circuits - protecting only when protection is needed.

© beim Hersteller
Archiv Michael Otto



Customized components for best sound





PM 94

AUDIOPHILE AMPLIFIER

PM 84II

AUDIOPHILE AMPLIFIER

■ 2x110W RMS power into 8 Ohms with high dynamic power capability into low impedance loads ■ Quarter A amplification gives pure Class A sound married to high-speed, low distortion MOS FETs for dynamic power ■ Automatic Voltage Shift Supply (AVSS) technology enables the amplifier to respond to wide dynamic range demands of digital signals. ■ CD/Phono Direct and improves transparency of sound by connecting CD and phono sources directly to power amplifier stage ■ Tone Defeat by-passes tone control circuitry giving lower colouration ■ Custom components give greater detail and lower noise ■ Copper-plated chassis for lower distortion sound ■ High specification FET phono section ■ Up to 8 inputs including three tape recorders ■ Independent tape copy 1 to 2 and 2 to 1

■ 2x150W RMS power into 8 Ohms with truly high dynamic power capability into low impedance loads ■ Quarter A amplification gives pure Class A sound married to high-speed, low distortion MOS FETs for dynamic power ■ Massive low hum-field toroidal power supply transformer ■ CD/Phono Direct straight-path connection lowers colouration and improves transparency of sound ■ Tone Defeat ■ Custom components - quality ceramic damped capacitors and special Copper Styrol film capacitors ■ Copper-shielded non-magnetic construction ■ High-quality Moving Coil phono transformer ■ Up to 10 inputs including three tape recorders ■ Tape monitoring for three tape decks and tape dubbing 1 to 2, 2 to 1 and 3 to 1





PM64II

AUDIOPHILE AMPLIFIER

■ 2x110W RMS power into 8 Ohms with true high power on demand ■ Quarter A high-speed push-pull bipolar transistor output gives pure Class A sound matched with high dynamic power capability ■ Automatic Voltage Shift Supply (AVSS) technology enables the amplifier to respond to wide dynamic range demands of digital signals ■ CD/Phono Direct feeds the signal directly to a high-accuracy volume control potentiometer ■ Tone Defeat by-passes tone control circuitry giving lower colouration ■ Copper plated chassis for power supply for reduced distortion in tape monitors with tape copy ■ Can drive two pairs of speakers independently or simultaneously through relay controlled switching ■ High-quality screw terminals ■ Up to 8 inputs including two tape decks

PM 55

AUDIOPHILE AMPLIFIER

■ 2x65W RMS power into 8 Ohms from triple-layer MESA Power transistors ■ Protection circuits sense harmful heat build-up or short circuits fully protecting the amplifier ■ CD Direct for CD1 input feeds the signal directly to a high-accuracy volume control potentiometer ■ Non-magnetic copper shielded screws and copper-plated fixings anchoring power transistors for lower distortion ■ Heat sink damped with Urethane ■ Connections for AV Surround Sound processor ■ Nine inputs are provided for phono (magnetic and moving coil cartridges), CD, CDV, tuner, TV/Aux, two tape recorders and two video recorders ■ Independent recording selector ■ Muting switch ■ Drives two pairs of speakers independently or simultaneously ■ Heavy duty speaker terminals and gold-plated input sockets (Phono, CD1/2 inputs)





PM 80

AUDIOPHILE AMPLIFIER

■ 2x100W RMS power into 8 Ohms - delivers a massive 340W (RMS) into a 2 Ohm load ■ True Class A mode with up to 20W output for unequaled purity of sound ■ Linear Drive Power Supply (LDPS) ■ High Resolution (HR) circuitry and custom components for absolute musicality ■ Non-current limiter protection gives DC and short circuit protection without 'slugging' sound ■ Exceptional high-frequency channel separation and crosstalk for vivid stereo imaging ■ Source Direct switching with automatic tone defeat shortens signal path from volume control directly to power amplifier ■ Super low-noise phono amplifier gives high detail resolution and wide dynamic range ■ Three tape monitors and a huge range of inputs

PM 50

AUDIOPHILE AMPLIFIER

■ 2x70W RMS power into 8 Ohms with low impedance drive capability ■ Can deliver up to 240W (RMS) into a 2 Ohm load and drive the complex loads presented by real-world loudspeakers ■ Linear Drive Power Supply (LDPS) ■ High Resolution (HR) circuitry and custom components for absolute musicality ■ Non-current limiter protection gives DC and short circuit protection without 'slugging' sound quality ■ Source Direct switching with automatic tone defeat shortens signal path from volume control directly to power amplifier for highest possible clarity and resolution ■ Low-noise phono amplifier ■ High detail resolution and wide dynamic range with analogue records ■ Moving coil phono input





PM35II

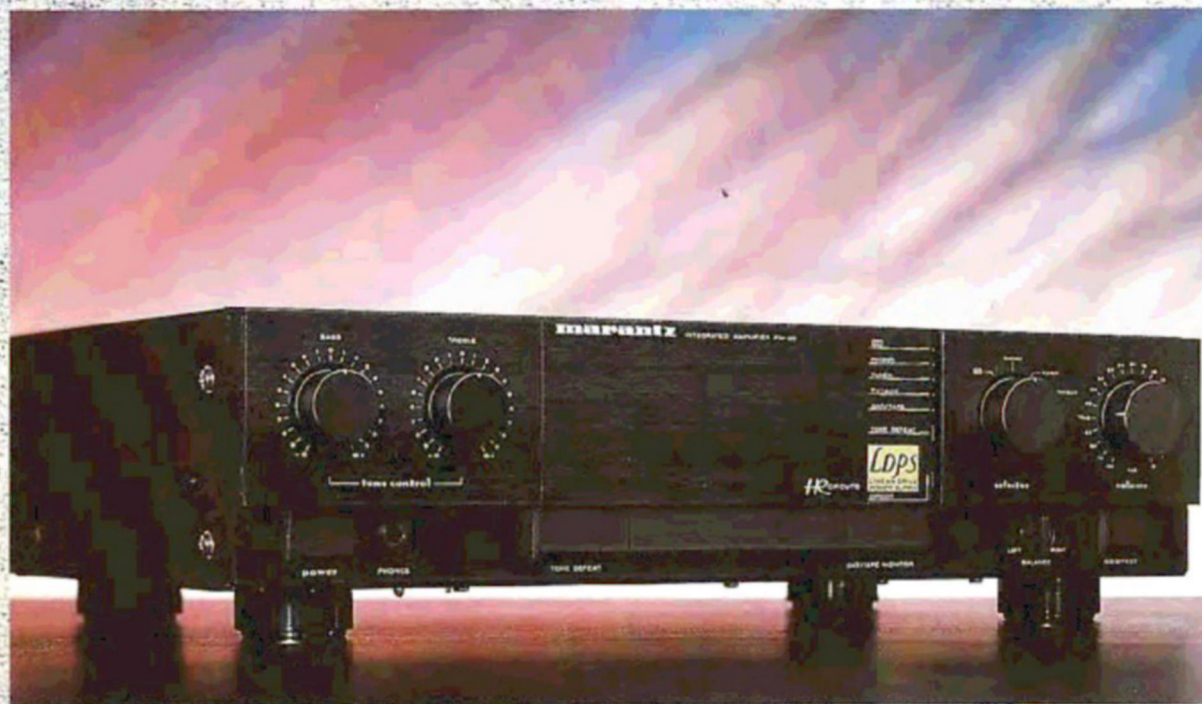
AUDIOPHILE AMPLIFIER

■ 2x45W RMS power into 8 Ohms from High Speed Bipolar Power transistors ■ Linear Drive Power Supply (LDPS) ■ High Resolution (HR) circuitry ■ Protection circuits sense harmful heat build-up or short circuits fully protecting the amplifier without sacrificing sound quality ■ CD/Phono Direct switch takes the signal from the phono or CD inputs directly to the high-accuracy volume control potentiometer. ■ Tone Defeat routes signals on a short, straight path to the power amplifier by-passing tone controls and filter circuits ■ Independent left and right Heat Sinks reduces the possibility of vibration coupling ■ Low noise FET phono input accepts magnetic and moving coil cartridges ■ Five inputs are provided for phono cartridges, tuner, CD, TV/Aux and tape

PM 25

AUDIOPHILE AMPLIFIER

2x35W RMS power into 8 Ohms ■ Low impedance wide-bandwidth DC power supply Linear Drive Power Supply (LDPS) ensures tonal and dynamic fidelity ■ High Resolution (HR) circuitry gives maximum separation and lowest noise ■ Independent left and right Heat Sinks for improved clarity and stereo imaging ■ CD Direct connects signals directly to the power amplifier stages through a high-accuracy volume control potentiometer for purer sound ■ Direct wired speaker terminals ■ Five inputs: for magnetic cartridges, tuner, CD, TV/Aux and tape ■ Gold-plated Phono and CD input sockets



COMPACT DISC PLAYERS.

Compact Disc has been the most exciting development on the hi-fi scene since the arrival of stereo in the 'fifties. Marantz has been committed to and involved in this digital technology from the start.

The robust digital code lead many manufacturers to forget simple good mechanical and electrical design. Marantz CD players are designed in vibration-free chassis for purest sound quality. Power supplies have been designed to cut out any trace of digital noise that could make these players sound harsh.

Based on the critically well-accepted and proven four-times oversampled 16-bit chip the combination of digital oversampling and gentle analogue filtering after the convertor gives a sound of breathtaking musicality.

A new generation of error correction and decoding chips now give faster track access and stable tracking of even old or damaged discs. The compact Marantz single-beam, pivoted laser ensures fast and accurate tracking and minimizes acoustic feedback problems.

A choice of optical and electronic



CDM-1 Mechanism

digital outputs are offered along with remote control and Favourite Track Selection memory on many of the players. The top player of the new range also features a scrolling alphanumeric display enabling you to store any text - up to 24 characters long - in the FTS memory.

Jitter.

'Jitter' describes unwanted, ever-changing timing errors in a digital signal. These occur through even the least slack in the optical digital connector. Even if an electrical connection is made using a coaxial cable jitter can occur. The capacitance of the cable itself can cause time shift errors and jitter.

Accurate reconstruction of the analogue music signal in any digital circuit - in either an amplifier or CD player - depends on precision timing. Jitter can therefore impair resolution of the recreated signal. This will hide musical detail, dull dynamics or blur stereo imagery.

Jitter elimination circuits - featured in Marantz Digital Amplifiers as well as the Reference CD 12 CD player - are used to improve



TDA 1541 AS 1 Selected D/A Converter

© beim Hersteller
Archiv Michael Otto

distortion across the entire bandwidth. High treble signals in particular show a considerable lowering of distortion.

Jitter is eliminated by a phase-locked loop driven by high-accuracy clock. This beats many millions of times a second to clock exactly the digital signal slices.

HR circuits.

Over the years Marantz has built up a database of information from research into the sound of components and the effects of vibration on sonic performance. This information is fed back into the design of all our products. The unique Marantz approach to component choice and circuit design is called High Resolution circuitry.

Even the board that carries power to the components through its copper tracks can influence sound performance. The ground potential of the left and right channels for instance is kept completely separate in our designs. Current flowing in the ground path of one channel could have unfavourable effects on the sound of the other channel.

Information of the sound of passive components is fed back into custom manufacture. All active components are carefully specified, tested and chosen. This gives us far greater control over the ultimate sound quality potential of our products - better detail, crisper imaging, lower noise and wider dynamic range can be achieved.



Decoder PCB of CD 80



CD 12

REFERENCE STANDARD COMPACT DISC PLAYER

■ Reference standard CD player - separate disc transport, digital-to-analogue converter and intelligent remote control
 ■ Fast access and accurate tracking with CDM1 aluminum die-cast laser mechanism ■ Vibration resisting construction ■ The effects of ground currents eliminated by optical digital coupling and electrical isolation ■ Specially selected Dual-channel 16-bit TDA1541AS-1DAC chip ■ Four-times oversampling ■ Jitter elimination circuitry ■ Auto switching sampling frequency (44.1 and 48kHz) ■ Copper-plated, die-cast chassis and rear panel ■ Four toroidal low stray field power transformers ■ Newly developed electrolytic capacitors ■ Independent glass-epoxy circuit boards for signal and servo circuitry ■ Balanced 600 Ohm output ■ Optical and electronic outputs

REMOTE CONTROL

■ Intelligent remote with LCD display for use also with other components ■ Pre-programmed for 10 components with a memory for 20 ■ Head-to-head Learning mode can memorize commands from other infra red remote handsets





CD94II

COMPACT DISC PLAYER

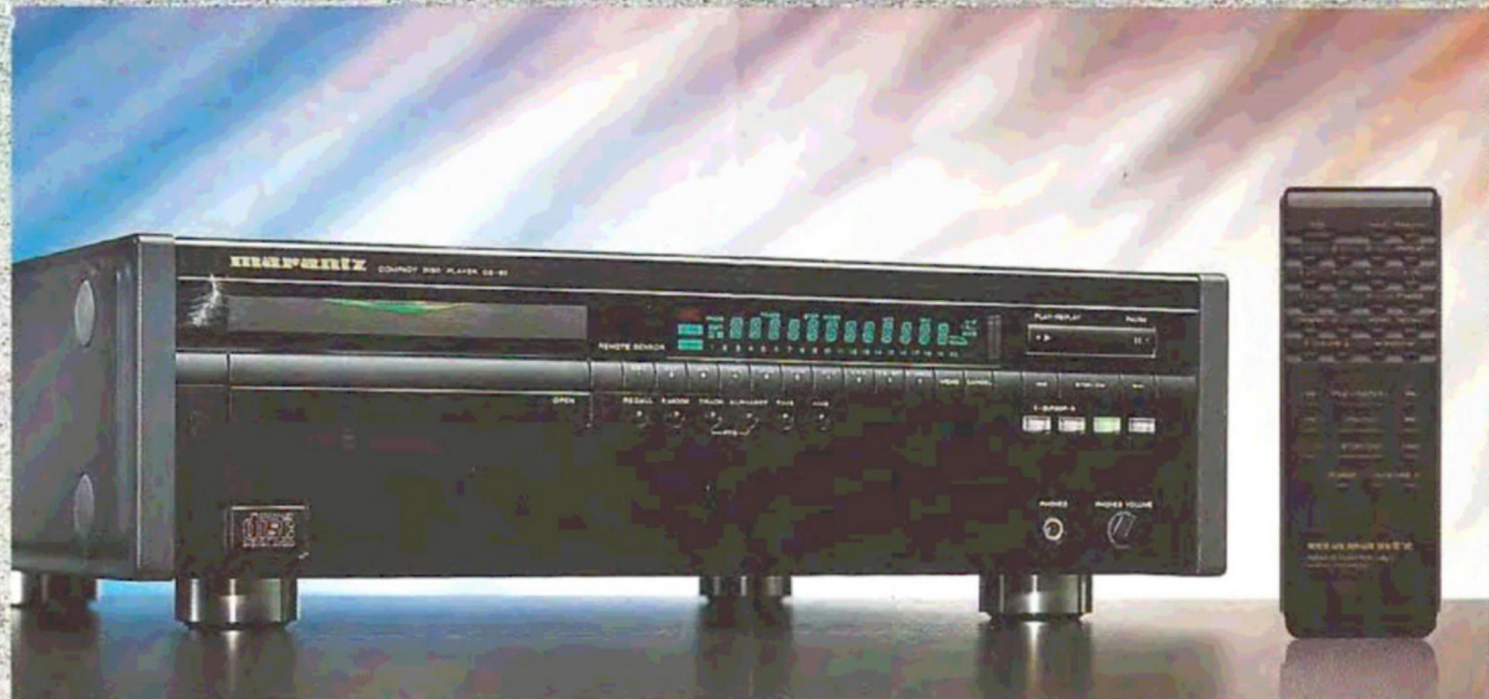
■ Double push-pull, specially selected 16-bit DACs produce exceptional musical detail, imaging and extraordinary dynamics by distortion cancelling ■ Four-times oversampling digital filter with improved phase linearity ■ High Resolution (HR) circuit ■ Custom components give greater detail and lower noise ■ Full 29-key remote control for easy operation and programming ■ Sturdy non-vibration die-cast chassis gives a purer, more detailed sound ■ Non-magnetic construction for lower colouration ■ Fast track access and accurate tracking from fully-floating CDM1 pivoted swing-arm laser transport with die-cast frame ■ 20-track random programming ■ Favourite Track Selection (FTS) - permanent memory for up to 226 discs

CDA94

DIGITAL-TO-ANALOGUE CONVERTER

■ Selected dual-channel 16-bit TDA1541AS-1 DAC chip and four-times oversampling digital filter give 104dB dynamic range with fast transient attack and superb phase linearity ■ Automatic switching sampling frequency - 32, 44.1 and 48kHz for compatibility with CD, DAT and satellite ■ Precision analogue filtering ■ Optical and electronic digital inputs with source selection ■ Independent left and right audio output amplifiers ■ Three totally independent power supplies each with its own transformer ■ Absolute phase control ■ Custom components for low noise and detailed sound ■ Balanced 6000hm, variable and fixed outputs ■ Digital monitor input/output ■ High-quality headphone socket with volume control





CD 80

COMPACT DISC PLAYER

■ Specially selected dual-channel 16-bit DAC with high-quality decoder/error correction ■ Four-times oversampling ■ Fully-floating CDM-1 II pivoted swing-arm laser with die-cast frame ■ High Resolution (HR) circuits ■ Custom components give greater detail and lower noise ■ Direct coupled output stage with perfect left/right symmetry for exceptional stereo focus ■ Favourite Track Selection (FTS) programming ■ Alpha-numeric titles with FTS ■ Full 35-key remote control including volume ■ Vibration-free die-cast construction ■ Disc illumination ■ Display dimmer ■ Variable Automatic Music Scan (AMS) ■ Optical and electronic digital outputs ■ Variable line out from a high-quality motorized potentiometer ■ Marantz D-Bus In and Out provides system remote control

CD 60

COMPACT DISC PLAYER

■ Selected dual-channel 16-bit DAC with high-quality decoder/error correction ■ Four-times oversampling ■ Fully-floating CDM-4 pivoted swing-arm laser ■ Selected components for greater detail resolution and lower noise ■ Favourite Track Selection (FTS) programming ■ 20-track random programming ■ Extended track programming modes, repeat and edit modes ■ 33-key remote control including volume ■ Strong, high-impact polystyrene 'honeycomb' chassis ■ Variable Automatic Music Scan (AMS) ■ Optical and electronic digital outputs ■ Variable line out from a high-quality motorized potentiometer ■ Marantz D-Bus In and Out provides system remote control





CD 50

COMPACT DISC PLAYER

■ Superior dual 16-bit DAC with high-quality decoder/error correction ■ Four-times oversampling ■ Fully-floating CDM-4 pivoted swing-arm laser mechanism ■ Selected components for greater detail resolution and lower noise ■ Push-to-play disc tray with improved disc clamping accepts CD singles without adaptor ■ Favourite Track Selection (FTS) programming ■ 20-track random programming ■ Extended programming and edit modes ■ 31-key remote control including volume ■ Sturdy, high-impact polystyrene 'honeycomb' chassis ■ Variable line out (7 steps of 3dB) ■ Automatic Music Scan (AMS) ■ Random (Shuffle) play ■ Electronic digital outputs ■ Marantz D-Bus In and Out provides system remote control

CD 40

COMPACT DISC PLAYER

■ Dual 16-bit DAC for high linearity and wide dynamic range capability ■ Four-times oversampling digital filter ■ Integrated stabilized power supplies for cleaner sound ■ Fully-floating CDM-4 pivoted swing-arm laser mechanism with improved servo control for rapid track access and improved trackability ■ Smooth motorized push-to-play disc tray accepts CD singles without adaptor ■ Total Track/Remaining Time display ■ 20-track random programming ■ 24-key remote control including volume ■ High-impact polystyrene 'honeycomb' chassis gives cleaner, tighter sound ■ Automatic Music Scan (AMS) ■ Random (Shuffle) play ■ Headphone output



CASSETTE DECKS.

Marantz designs its cassette decks with the same attention to detail as its acclaimed CD players and Audiophile amplifiers.

Top-of-the-range or high-value twin deck - high-performance cassette technology relies on a precision tape transport and perfect tape to head contact driving linear, wide dynamic range electronics.

Mechanical vibration too must be minimised. The SD 60, for instance, features a special cassette shell stabilising mechanism to reduce distortion from vibration. Solid, reliable mechanisms are used in all Marantz cassette decks to guarantee stable tape transport with negligible wow and flutter.

Throughout the range super hard permalloy tape-heads are employed. This material is outstandingly wear-resistant - even with metal tapes. Tape heads

are accurately profiled to give perfect tape to head contact for best low-frequency performance.

Replay and recording electronics are to the same exacting standards



Hard permalloy 3 head SD 60

as our Audiophile amplifiers. Wide dynamic range and low distortion are the sound quality goals.

Dolby HX Pro.

Dolby HX Pro is a head-room extension system for cassette tape recorders. The treble content of a music signal can self-bias the tape during recording. With fixed bias this means that the tape is never correctly biased as the treble content of the music changes. Conventional cassette decks constantly under and over the bias tape during recording thereby changing the frequency response potential of the medium.

HX Pro exploits this fact by adjusting bias and equalization dynamically during recording. The treble content of the signal is

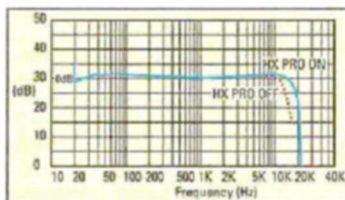


Cassette-stabilizer SD 60

© beim Hersteller
Archiv Michael Otto

monitored and bias current is kept in line with what is required.

HX Pro helps Marantz cassette decks deliver maximum dynamic range with the greatest fidelity irrespective of the signal being recorded. This system is used during recording only and its benefits can be enjoyed on any deck on which the HX Pro recorded tape is replayed.



HX-Pro effects SD 50/SD 40

Quality applied.

Marantz designs its double cassette decks with the same consideration as its top-flight models. High-speed dubbing and convenience features are not the justification for these machines. They must stack up against the best single decks.



SD 60 closed-loop mechanism

Whereas plastics are extensively used in competing designs the Marantz double decks use metal mechanisms with sturdy motors. This not only gives the units a long-life but helps them maintain low wow and flutter performance throughout that life.

The electronics are designed for the same wide dynamic range, transparent sound for which Marantz product is known.

© beim Hersteller
Archiv Michael Otto



SD 60

CASSETTE DECK

■ Three-head design ■ Closed loop dual capstan mechanism ■ Precision transport with cassette half stabilising for cleaner, stable sound ■ Long-life super-hard permalloy head ■ Direct coupled FET differential tape-head amplifier ■ Low current drive equalization amplifier ■ Power transformer with dual independent supplies ■ Dolby B and C ■ Dolby HX Pro headroom extension system ■ Manual bias and record calibration control ■ Fluorescent Peak level display ■ Four-digit Alphabetic Mode display gives full information on deck status ■ Real-time electronic tape counter ■ Quick Music Search (QMS) ■ Automatic Music Scan (AMS) ■ Blank Skip ■ Auto space record mute ■ Timer operation ■ Headphone socket with independent level control ■ Marantz D-Bus In and Out provides system remote control



SD 50

CASSETTE DECK

■ Feather-touch Logic controlled mechanism ■ Four-digit Alphabetic Mode display gives full information on deck status ■ Specially tuned precision tape transport mechanism with alloy flywheel ■ Long-life Super-hard permalloy head ■ Dolby B and C ■ Dolby HX Pro headroom extension system ■ Fine bias control for outstanding recording quality ■ Fluorescent Peak level display ■ Independent Record level and balance control ■ Electronic tape counter ■ Switchable MPX filter ■ Quick Music Search (QMS) ■ Quick Rewind Stop ■ Automatic Music Scan ■ Blank Skip ■ Auto space record mute ■ Automatic tape selection ■ Timer operation for record and replay ■ Headphone socket with independent level control ■ Marantz D-Bus In and Out provides system remote control

SD 40

CASSETTE DECK

■ Feather-touch High-quality logic controlled mechanism for secure sound quality and longevity ■ Long-life Super-hard permalloy head profiled for best head/tape contact gives extended frequency range ■ Dolby B and C noise reduction systems ■ Dolby HX Pro headroom extension system secures best possible treble response from all tape types during recording ■ Fine bias control for top recording quality with a range of tapes ■ Independent record level and balance control for easier adjustment ■ Switchable MPX filter ■ Three-digit mechanical tape counter ■ Auto space record mute ■ Automatic tape selection ■ Quick Rewind Stop ■ Headphone socket





SD45II

CASSETTE DECK

- High performance tape transport ■ Long-life Super-hard permalloy head profiled for best head/tape contact gives extended frequency range and stability ■ Selected audiophile components ■ Dolby B and C noise reduction ■ Variable bias control for outstanding recording quality with a range of tape formulations ■ Auto tape selection ■ Clear display with four-digit tape counter and fast acting peak hold fluorescent meters ■ Switchable MPX filter

SD 35

CASSETTE DECK

- Logic control twin-motor tape transport ■ Super hard metal alloy tape heads ■ Dolby B and C noise reduction ■ Separate balance and level controls for easier recording adjustments ■ Variable tape bias for outstanding recording quality with a range of tape formulations ■ Auto tape selection ■ Switchable MPX filter





SD585

DOUBLE CASSETTE DECK

- Full logic double reverse recording deck with quick photo-sensed auto reverse
- Continuous playback for up to 3 hours
- Parallel recording or continuous recording up to 3 hours

- Two-speed dubbing for quick tape to tape transfer
- Dolby B and C noise reduction systems for compatibility with pre-recorded tapes and truly low noise home recording
- Microphone mixing
- Timer Standby for unattended recording or automatic switch-on
- 16-track dubbing or playback memory - during record the deck will wait in pause mode until the right track is found on the master tape
- Quick Music Search (QMS)



SD385

DOUBLE CASSETTE DECK

- Auto reverse double deck
- Soft touch transport with independent DC servo motors
- High speed dubbing
- Continuous play up to 3 hours
- Dolby B and C noise

- reduction systems for widest compatibility
- Quick Music Search
- Timer standby for unattended recording or automatic switch-on



SD285

DOUBLE CASSETTE DECK

- Twin soft touch mechanisms with independent motors
- Synchronized one-touch dubbing
- High speed dubbing
- Continuous play
- Dolby B and C noise reduction systems for

- widest compatibility
- Quick Music Search
- Timer standby for unattended recording or automatic switch-on

TUNERS.

A good tuner gives access to a world of music, sport, current affairs and drama. But as the air waves get more crowded choice may increase but good reception also gets harder.

Good frontend design is crucial in pulling-in distant stations or discriminating between stations broadcasting close together.

Though many tuners can boast impressive RF specifications they may not be able to turn that performance into top sound quality without good design in the audio section.

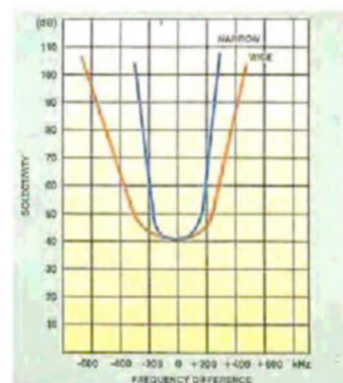
Digital techniques.

Precision digital quartz synthesizer tuning coupled with a low noise, high sensitivity MOS FET front end gets the widest dynamic range and lowest distortion from modern FM Stereo radio. Digital tuning is drift-free, quick and accurate with the convenience of automatic tuning and station presets.

Ultra-wideband ratio detection circuits are used for audio conversion in the top Marantz tuners. Though an analogue

technique, ratio detection is chosen for its outstanding linear performance. It even outdoes alternative digital techniques. As ever, the Marantz goal is unsurpassed sound quality.

A fixed IF bandwidth can strike an undesirable compromise between low distortion and selectivity. Switchable IF bandwidth gets around this problem. In Narrow IF mode the tuner can pick out one station broadcasting close in



Narrow-Wide Switch Function

frequency to another without interference. In areas where stations are spaced further apart the Wide IF mode gives optimum stereo separation.

EQUALIZERS, TURNTABLES.

Quality turntables are still in demand. Digital CD simply sets new performance standards up to which the turntable must measure. For cherished records that may

© beim Hersteller
Archiv Michael Otto



TT400

TURNTABLE

■ Static balanced medium mass tonearm for wide compatibility with both magnetic and moving coil cartridge ■ Straight arm with carbon compound headshell reduces resonance for clean

bass and exceptional stereo ■ High torque DC motor with polished drive belt for low wow and flutter and reduced rumble ■ Die-cast aluminum platter with heavy rubber mat ■ High precision bearing for reduced rumble ■ Large rubber feet with integral coil springs provide damped suspension for deck plate giving improved resistance to mechanical and acoustic feedback



TT275

TURNTABLE

■ Slim-line semi-automatic direct drive turntable with stroboscope and pitch control ■ Front operation with cover closed ■ Straight low-mass arm gives better tracking ■ Easy

upgrading, replacement and alignment with plug-in cartridge mount ■ Heavy die-cast aluminum platter with flat mat gives low wow and flutter and stable sound with ideal record support ■ High compliance feet reduced structure borne feedback



TT185

TURNTABLE

■ Slim-line semi-automatic belt drive turntable with servo controlled motor ■ Low-mass arm for improved tracking ■ Plug-in cartridge ensures wide compatibility and easy

upgrading and stylus replacement ■ Heavy platter with flat mat for stable sound quality, lowered feedback and ideal record support ■ High compliance feet help cut out feedback

never be issued on CD a good turntable is now more important than ever.

Marantz introduces a new audiophile turntable with DC servo belt-drive and low-colouration tonearm to answer the need for a high-performance source component for the LP record.

Marantz equalizers can give you help with difficult rooms and speakers or can be used in creative recording.

Whatever your need - a simple quality equalizer or spectrum analyzer with pink noise generator and microphone - a Marantz equalizer offers outstanding value.



ST 50/ST50L

DIGITAL TUNER

- Three-band digital tuner ■ Precise quartz synthesizer tuning
- Four-gang FM front-end using dual-gate MOS FET ■ 24 random presets can be divided randomly by user between FM and AM bands ■ Manual and auto scan tuning ■ Signal strength indicator ■ Frequency Direct Access Tuning with 10 front-panel keys for direct entry of station frequency ■ High sensitivity and signal to noise ratio ■ IF Wide and Narrow settings ■ Ultra-wideband ratio detector tuning - this very linear wide-bandwidth circuit gives better sound ■ Birdy whistle eliminating circuit gives purer sound than a simple filter ■ Layout separates digital microprocessor and analogue audio circuits ■ Marantz D-Bus In and Out provides remote control through Marantz amplifiers and RC593 remote control

ST 54/ST54L

DIGITAL TUNER (NOT SHOWN)

- Quartz synthesizer ■ High-sensitivity dual-gate MOS FET design ■ Manual and auto scan tuning ■ Selectable IF bandwidth ■ 16 FM and 8 AM station presets ■ Ratio detector audio conversion ■ Fine Tuning

ST 35/ST35L

DIGITAL TUNER

- Three-band digital tuner ■ Quartz synthesizer tuning for precise, drift-free tuning over three wavebands - FM, Medium Wave and Long Wave (AM) ■ Manual and auto scan tuning ■ High sensitivity MOS FET front end design ■ Selected components ■ Linear phase IF filters ■ Memory presets for 16 FM and 8 AM stations





EQ551

GRAPHIC EQUALIZER

■ Provides 12dB cut or boost on 10 frequency bands with independent left and right channel control ■ Built-in pink-noise generator and supplied microphone give real-time analysis of full frequency spectrum ■ Easy to read 10-band fluorescent display ■ Direct switch for instant comparisons ■ Tape monitor duplicates amplifier facility and gives instant checking of equalized signal from three-head tape decks ■ Decay time switch ■ Input attenuation

EQ351

GRAPHIC EQUALIZER

■ High-value version of EQ551 for users with no need of microphone input, pink noise generator, input attenuator or decay time switch ■ Provides 10dB cut or boost on 10 frequency bands ■ Independent left and right channel control ■ Inputs for two tape decks with tape copy ■ EQ level control ■ Instant comparisons through Direct switch



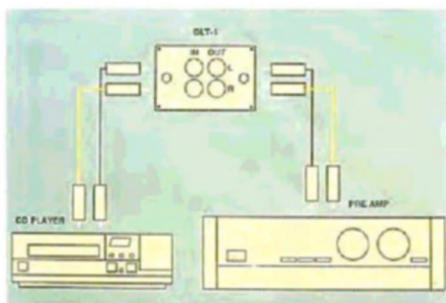
MUSIC LINK.

Music Link for Marantz - a new name for some very special products. A little bit out of the ordinary, appealing to those with a specialist interest, those appreciative of the finest construction and materials.

Conscious that to achieve the very highest sound quality potential from their amplifiers and CD players, Marantz designers found it necessary to be able to control every component in the hi-fi chain including the interconnecting leads and loudspeaker cables.

The ML 55S speaker cable is a high quality triple-core cable especially for use with Marantz bi-ground loudspeakers.

The Digital Line Transformer offers a unique upgrade route. Cutting the ground path from CD player to amplifier the DLT 1 can significantly reduce noise and improve sound quality of existing CD players.



Connection scheme DLT 1

MUSIC LINK

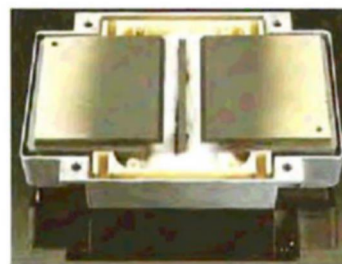
LOUDSPEAKERS.

The Music-Link LS 95 is the pinnacle of Marantz loudspeaker design. Though incorporating four drive units the LS 95 is basically a world-class two-way loudspeaker -



Woofers with plastic molded cones LS 95

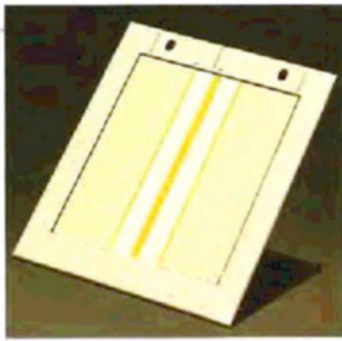
the lower two drivers (a super tweeter and second woofer) are 'contour definition transducers' to



Ribbon tweeter Cast frame LS 95

provide real bass below 150Hz and to extend treble out to 40kHz. The complete four-way package is a true high-performance loudspeaker with maximum 300W high-power handling.

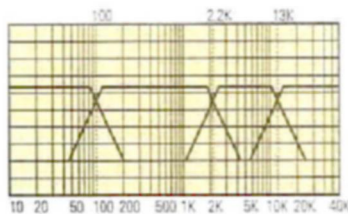
The computer designed cabinet is divided into two independent non-parallel compartments giving an



Diaphragm of Ribbon tweeter LS 95

ideal air load for the two bass drivers and minimizing internal standing waves further reducing colouration.

All new bass drivers have been developed for this exceptional loudspeaker. A newly developed mix of polypropylene and chopped carbon fibres is injection moulded to form exceptionally rigid, lightweight



Crossover frequency Response of LS 95

cones. Low colouration, Isophase ribbon tweeters and super tweeters are used for fast transient response, low colouration and zero phase shift. A computer developed high-performance crossover integrates these drivers.

Bi-ground.

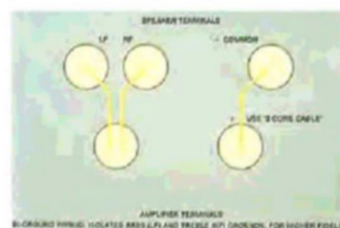
Bi-wired audiophile loudspeakers offer higher fidelity than

conventional passive crossover designs with simple signal and return terminals. By separating the high current associated with bass signals from higher frequency signals in the crossover lower distortion can be achieved. Separate feeds and grounds are used from the amplifier for the two sections of the crossover. Two full lengths of loudspeaker cable must be used with bi-wired speakers.

The Marantz technique is to simply separate the grounds for the treble and bass sections of the crossover. This gives the same dramatic improvements.

Marantz loudspeakers offer the advantages of bi-wiring with easy to obtain three-core cable. As supplied, the speakers can be conventionally driven. A simple link is removed freeing a third terminal for bi-ground wiring. This provides a cost-effective and exciting upgrade.

© beim Hersteller
Archiv Michael Otto



Bi-ground wiring LD



DLT1

DIGITAL LINE TRANSFORMER

- Isolating Digital Line Transformer to cut out digital noise
- Isolates the ground of any digital music source
- Eliminates direct electrical connection so unwanted digital noise can no longer travel through the ground path
- Saturation free at all signal levels
- Cleans up both middle and high frequency sound
- Gives better definition, improved stereo imagery as well as removing 'digital harshness'



LD 60

LOUDSPEAKERS

■ Three-way loudspeaker based on the well-received LD-50
 ■ 100W high-power handling ■ Above average sensitivity for truly dynamic performance ■ 25-mm soft dome tweeter and 19-mm super tweeter give clearer highs, tighter attack and increased treble headroom ■ Exceptional bass extension from Dynamic Bass Reflex Alignment ■ Low colouration super-tweeter/tweeter combination with high stereo imaging capability ■ Bi-ground crossover with high current capability components for smoother integration and improved dynamics ■ Baffle design allows grilles to be used without affecting stereo performance

LD 50

LOUDSPEAKERS

■ High performance, compact two-way loudspeaker ■ 100W power handling ■ High sensitivity and high power handling ensures outstanding dynamic performance ■ Dynamic Bass Reflex alignment for clean, fast bass with phenomenal extension ■ Low colouration-stiffened polypropylene mid/bass

driver and Mylar dome tweeter ■ Improved rigidity cabinet with double thickness Medite front baffle and internal bracing for fast bass and outstanding stereo imagery ■ Bi-ground crossover with high current capability components for smoother integration and improved dynamics ■ Baffle design allows grilles to be used without affecting stereo performance

LD 20

LOUDSPEAKERS

■ Compact stand-mounted two-way loudspeaker designed for use with amplifiers in the 30-100W (RMS) output range ■ 60W power handling capability ■ Dynamic Bass Reflex alignment for tight, deep bass ■ Low colouration driver combination ■ New improved rigidity cabinet with Medite front baffle and internal bracing-ground crossover to further reduce colouration



beim Hersteller
Analog Michael Otto

MUSIC LINK LS 95

AUDIOPHILE LOUDSPEAKERS

- 300W high-power handling
- Above average sensitivity
- High rigidity computer-designed cabinet
- Vertical in-line driver positioning and narrow, low diffraction cabinet with rounded edges ensures high stereo imaging capability
- Twin bass compartments with correct air-load for each woofer guarantees tight, accurate bass
- No parallel partitions in cabinet construction
- High-performance, high-linearity bass drivers with exceptional bass extension and clarity
- Super-fast tweeter/super-tweeter combination
- Bi-wire crossover with high current capability components
- Bi-amp and mono-amp driving possible
- Satin gloss varnished natural rosewood veneers and high-gloss black lacquer on baffle
- Removable grilles on ribbon tweeter and super tweeter
- Gold-plated binding posts



MUSIC LINK ML95L

AUDIOPHILE INTERCONNECT

■ Audiophile interconnect in two 1-metre lengths ■ Twin cores of high purity oxygen-free copper ■ Triple insulated construction with double shields - copper mesh against radiated noise and permalloy shield against induced magnetic effects ■ Drain wire of tinned soft copper ■ Hard polythene insulator ■ Jacketed in a second hard polythene layer ■ 24 carat spot-welded gold-plated plugs

MUSIC LINK ML55L

AUDIOPHILE INTERCONNECT

■ Audiophile interconnect in two 1-metre lengths ■ High purity oxygen-free copper ■ Double insulated construction ■ Hard polythene insulators ■ PVC jacket to reduce microphony effects ■ 24 carat spot-welded gold-plated plugs

MUSIC LINK ML55S

TRIPLE-CORE LOUDSPEAKER CABLE

■ Triple-core loudspeaker cable in single 10-metre length ■ High purity oxygen-free copper cores with individual PVC coverings ■ Parallel PVC jacket ■ Can be halved and used as a pair of 5-metre cables ■ Supplied with thermal shrinking sleeves for neat termination of shorter lengths



AUDIO VIDEO.

When you buy Marantz Audio/Video equipment, your home takes on exciting new dimensions. It becomes your cinema, your concert hall, your theatre, your opera house. Because Marantz combines the pure high fidelity of both audio and video to offer you breathtaking experiences in sight and sound. Experiences that a television alone could not possibly reproduce. After all, it is the audio section that creates the drama, the atmosphere, the tension and excitement. Can you imagine films like Star Wars and Superman as silent movies?

MARANTZ.
NOT FOR THE
CASUAL
AUDIENCE.

© beim Hersteller
Archiv Michael Ott

Imagine instead the excellence of Marantz audio reproduction combined with the very best in video technology. That's the Marantz audio/video experience. It's not for the casual audience. It's for those who want to enjoy home entertainment to the full.

That's why Marantz makes it possible to integrate all the most advanced audio and video facilities in one, centralised system. Everything from satellite TV to CD-Video and Dolby Surround processing. At the heart of each system is one of the legendary quality Marantz amplifiers, offering not just excellent sound reproduction but full A/V switching. And the Marantz Digital BUS remote control puts easy command of every product in the system right in the palm of your hand. This represents the future of home entertainment. At Marantz, the future is already here.

Marantz hi-fi and video products



CD-CDV discs

combine to give the best in home entertainment.

To simplify the multiple connections necessary for a truly integrated home entertainment system Marantz amplifiers are provided with sufficient audio inputs and in most cases with special inputs for video switching. The PM65AV is an audiophile amplifier dedicated for home entertainment use.

Compact Disc Video (CDV) combines quality television pictures from disc with digital CD sound.

Each of the three CDV discs offers different facilities and playing time.

The smallest gold 12cm (5inch) disc offers a 5-minute video with digital sound plus 20 minutes of digital audio. The 20cm (8inch) disc will replay up to 40 minutes of video with digital sound. A double-sided 30cm (12inch) disc has a 120-minute playing capacity.

At last video now has the sound quality it has always deserved - and the programming and access convenience already enjoyed by every CD user.

© beim Hersteller
Archiv Michael Otto



CV 60

CDV PLAYER

- Plays audio-only 3- and 5-inch Compact Discs as well as digital CD Video discs
- Dual 16-bit digital-to-analogue converter
- Four-times oversampling
- Picture colour balance held constant across disc
- Favourite Track Selection (FTS)
- On-screen display
- Alphanumeric titles with FTS programming on-screen
- Enhanced programme, repeat and edit modes
- Remote control either through player or AV system remote
- Scart (Euroconnector) socket with composite video and RGB
- Audio output also on gold-plated phono sockets
- Chapter, frames and times programmable for video playback
- Track and Chapter Skip
- SHIF and Step Frame, Multi-speed replay forward and reverse with active videodiscs (CAV)
- Edit mode defines cassette tape length when taping
- Headphone socket with independent volume control
- Automatic de-emphasis switching
- RF connection for direct connection to a TV
- Demonstration mode



CV 55

CDV PLAYER

■ CD compatible CD Video player - also plays both 3- and 5-inch audio only Compact Discs ■ CDM6 mechanism with fully automatic loading for all CD and CDV discs ■ Remote control ■ Four times oversampling with 16-bit chips for quality digital sound ■ Scart (Euroconnector) socket with composite video and RGB for best picture quality ■ Digital output ■ On-screen display for programming and status ■ Chapter, frames and times programmable for video playback with memory for up to 20 tracks or chapters ■ Track and Chapter Skip forwards and back ■ Still and Step Frame, Multi-speed replay forward and reverse with active videodiscs (CAV) ■ RF connection for direct connection to a TV

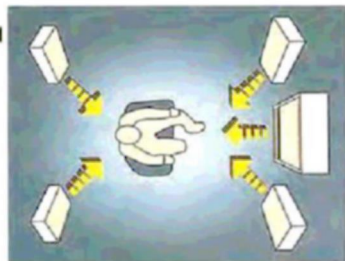


DOLBY SURROUND.

The impact of modern cinema sound has much to do with the adoption of the Dolby Stereo system. Dolby Surround is the domestic equivalent of the Dolby Stereo sound-track system installed and enjoyed in major film theatres.

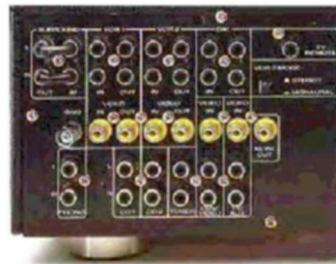
Dolby Surround can recreate the space and power of 'cinema sound'. But to bring the full cinema experience into the home Marantz offers the full Dolby Pro Logic Surround system.

Simple Dolby Surround processors



Dolby surround reproduces cinema-type sound in the home

can decode the cinema Dolby Stereo sound-track present on CDV discs or video cassettes. Decoding the left, right and surround channels Dolby Surround is ideal for a small listening area and a small screen. Decoding the original left, right, centre and surround channels Pro Logic is the ideal choice for bigger screens and bigger rooms. The Dolby Pro Logic system offers 'Direction



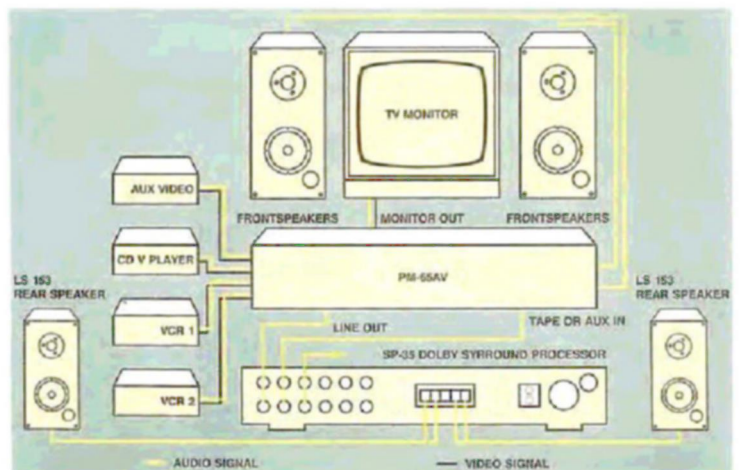
Rear panel of PM65AV

Emphasis' with more subtle control giving enhanced dialogue clarity and sound effects placement.

TELEVISION.

Large-screen televisions make an imposing focal point of a modern home entertainment audio video system. Big screens bring their own problems for TV design engineers. A flat, square tube, crisp image edges, high resolution and, above all, well saturated colour mark out the good big-screen TV from the poor. Marantz uses a 110° dark-grass FSQ tube for maximum contrast and widest viewing angle. Picture crispness and clean colour separation are electronically enhanced.

Digital picture memory (DPM) allows all sources to be displayed picture-in-picture (PIP) enabling viewers to review all video and broadcast sources without detuning

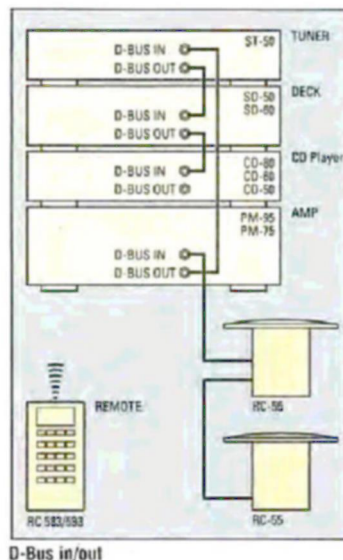


from a main programme. DPM and PIP can also be used to analyze action events in multiple freeze frame. Built-in quality audio electronics - a powerful (80W total system power) amplifier - can be driven in spatial stereo or pseudo-stereo (Enhanced mono).

For the future the MT895 set comes equipped with an S terminal for S-VHS Video and with 90 presets including CATV and Hyperband the TV is effectively future-proof. A Teletext decoder and impressive on-screen display complete the picture.

AV AMPLIFIER.

The PM65AV brings together a true audiophile amplifier and a elaborate video-switching unit in one box. Many so-called AV amplifiers sacrifice audio quality for convenience. Not so the PM65AV. For improved stereo imaging and dynamics the amplifier has been designed with totally independent video and audio input circuit boards. And independent power supplies for both the audio and video circuitry. Through packed with video features the PM65AV can take on any audiophile amplifier.

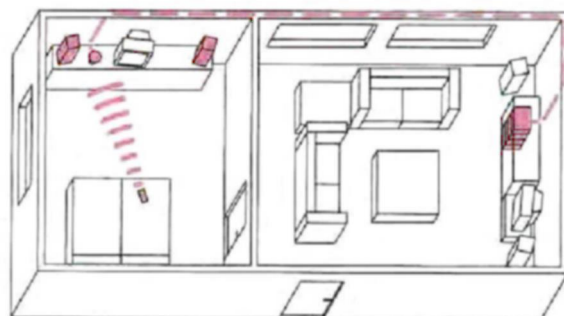


D-Bus in/out

REMOTE CONTROL.

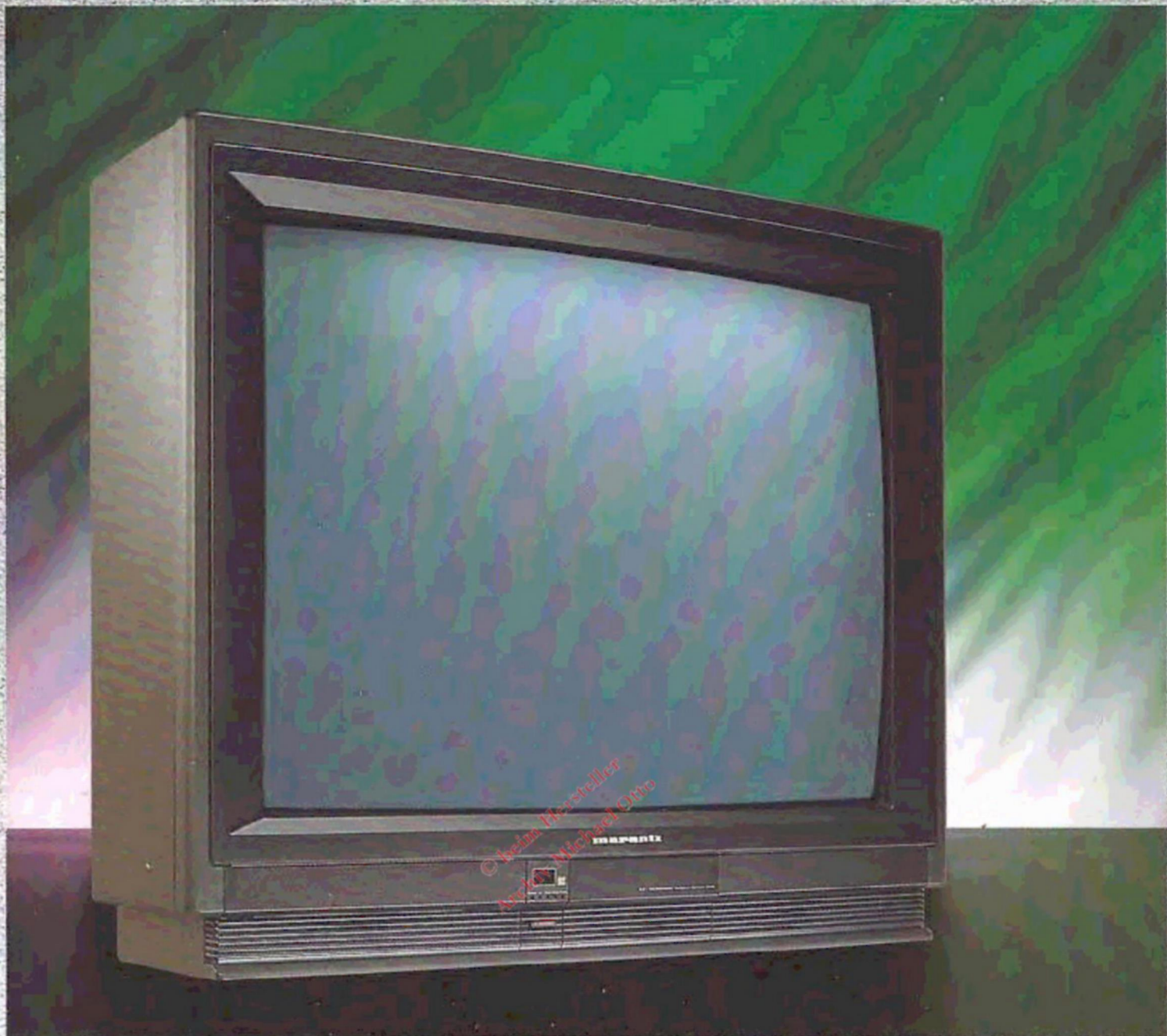
Remote controls need not be dedicated to the equipment with which they are bought. A new generation of intelligent Marantz remote controls offers complete flexibility of operation.

The Marantz RC583 and RC593 intelligent remote controls can learn from infra-red remote commanders supplied with other hi-fi, video or television components. Just one remote control can take over all functions. Both units are pre-programmed for a range of Marantz hi-fi and video product but can additionally learn command codes from other units. A display window shows not only which product has been chosen but dynamically labels the function keys for each different product.



RC 55 eye for second system control

© beim Hersteller
Archiv Michael Otto



MT895

COLOUR TELEVISION

■ 33-inch digital multi-standard colour television ■ 110° FSQ for flatter, larger picture ■ Picture in Picture (PIP) with four corner and freeze-frame control ■ Colour Boost gives greater edge sharpness in soft outlined pictures ■ Hi-fi Stereo sound ■ Spatial Stereo ■ 80W Total System Power for high-quality television sound ■ Full remote control with Teletext, PIP and VCR functions ■ On-screen display with large 2000 character set for improved display ■ Hyperband ■ Satellite and Cable-MAC ready ■ Computercontrolled Teletext with 4-page memory and 40 page numbers ■ Two Scart (Euroconnector) sockets, two A/V inputs, Two audio outputs, stereo headphone output, loudspeaker output ■ VCR dubbing facility



PM65AV

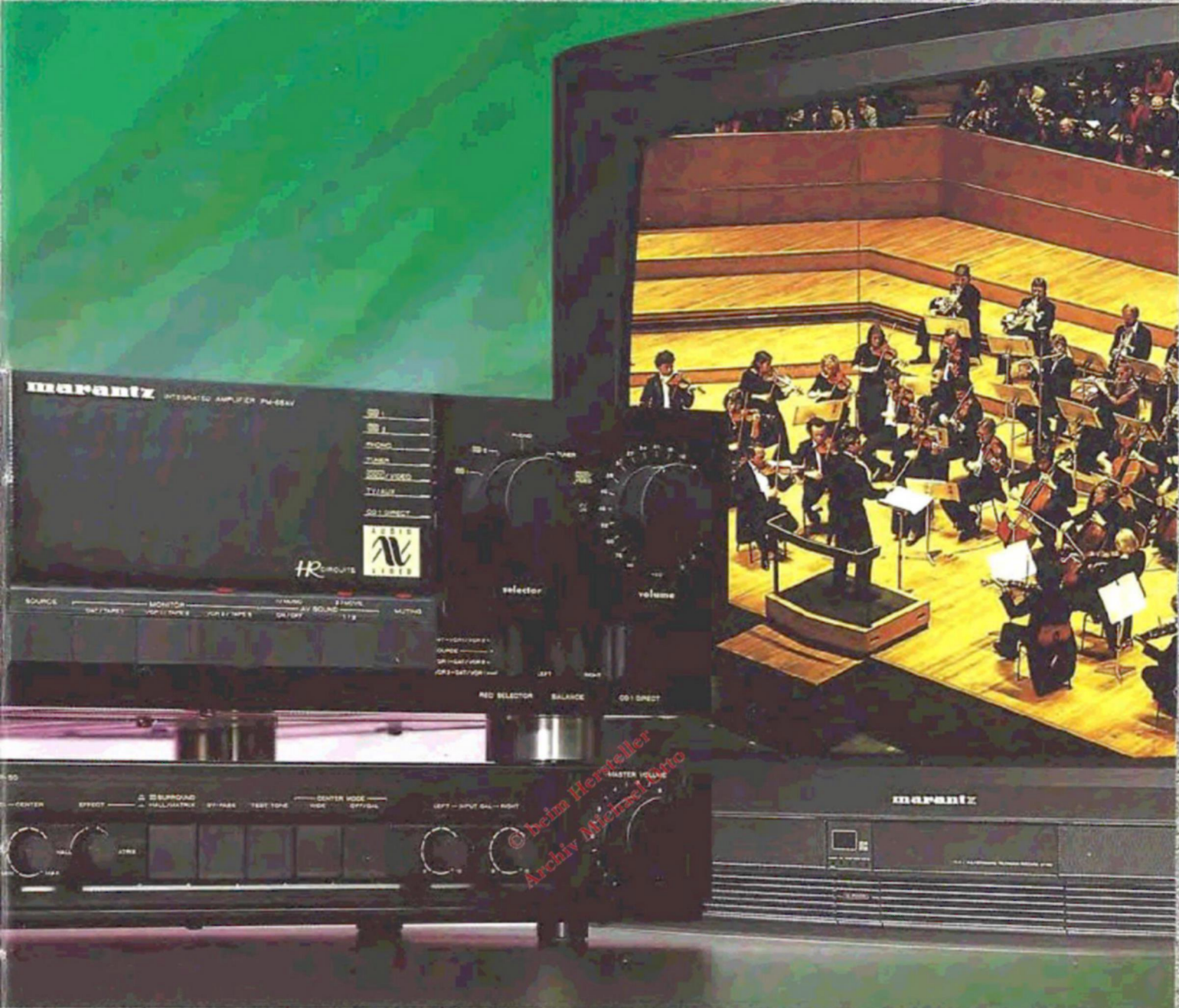
AV AMPLIFIER

- 2x75W RMS into 8 Ohms from triple-layer MESA power transistors
- Totally independent video and audio input circuit boards and power supplies for best possible sound and picture quality
- Nine inputs with independent recording selector for unattended recording
- Discrete video buffer amps to increase signal to noise ratio on each input
- AV1 Music setting boosts frequencies below 50Hz to give added bass weight to music video
- AV2 Movie boosts below frequencies 200Hz to give presence to the sound from feature films
- Can be used with long cable sets between the TV monitor and amplifier making domestic arrangement of equipment easier
- Dolby Surround Sound In and Out sockets
- Gold-plated sockets on Phono and the two CD inputs

SP 50

DOLBY PRO LOGIC SURROUND PROCESSOR

- Dolby Pro-Logic Surround processor recreates thrilling cinema surround sound at home
- Decodes the original cinema Dolby Stereo sound-track from suitable video cassette and videodisc software
- Left, centre, right and surround output channels to give high definition sound over larger listening area
- Digital delay gives correct delay without noise and distortion generated by competing analogue systems
- 30W built-in power amplifier
- Single master volume control for all four channels
- Matrix effects for stereo enhancement - four channel left, right, front and rear
- Hall surround mode to add hall acoustic to normal stereo sources
- Test tone for rapid, easy setup
- Direct connections for HP1DB Surround Sound headphones



SP 35

DOLBY SURROUND PROCESSOR

■ Dolby Surround processor to recreate exciting cinema surround sound at home codes the cinema Dolby Stereo sound-track from suitable video cassette and videodisc software
 ■ Variable time delay enables the surround sound to be adjusted for any room ■ 30W (EIAJ) built-in power amplifier
 ■ Matrix effects for stereo enhancement ■ Spatial stereo for enhancement of mono sources ■ Direct connections for HP10B Surround-Sound headphones

LS153

REAR SURROUND LOUDSPEAKERS

■ Wall or stand mounted flat single unit Surround speaker
 ■ Used to add low frequency rear channel information for cinema sound effects or to enhance ambience ■ Mechanical two-way driver ■ Compatible with 10-30W amplifiers

HP10B

SURROUND SOUND HEADPHONES

■ Surround sound headphones ■ Four-driver construction with high energy magnets for high-dynamic, wide frequency range sound ■ Can be driven directly by Marantz PM65AV amplifier





RC593

UNIVERSAL IR REMOTE CONTROL

- Learn (Programming), Learning (head-to-head) and Use modes
- Macro mode - four-times 15 commands transmitted as complete command strings
- Pre-programmed for 10 Marantz products
- 37 programmable keys in 10 functions - 370 possible commands
- Dynamic Liquid Crystal Display with adjustable contrast - the command titles change as different products are selected
- Dynamic labelling of function name display on five keys
- Can learn 296 D-Bus and up to 150 other codes from other remote control units for widest compatibility with other product
- Total of 740 preset codes - 2,560 D-Bus codes
- Low battery indicator
- Toggle-bit detection

RC583

UNIVERSAL IR REMOTE CONTROL (NOT SHOWN)

- Self-Learn (Programming), Learning (head-to-head) and Use modes
- 37 programmable keys in 10 functions - 370 possible commands
- Dynamic Liquid Crystal Display
- Dynamic labelling of function name display on five keys
- Can learn 296 D-Bus and up to 150 other codes from other remote control units

- Total of 740 preset codes - 2,560 D-Bus codes
- Backup battery
- Low battery indicator

RC 55

REMOTE CONTROL 'EYE'

- Extends system remote control to a second location remote control to a second room where loudspeakers - driven by the System 2 outlet on a Marantz MX system for instance - are in use
- Wide acceptance angle
- Supplied with long lead set

VIDEO PLAYERS.

Today's video recorder offers convenience features, picture and sound quality undreamed of just a few years ago. Extended play, audio only recording to true hi-fi sound quality standard, picture-in-picture and digital special effects are just the beginning. This year midi sized video recorders have been introduced to match the Marantz midi AVMX system range. Alphanumeric and on-screen displays are used to make the video recorder easier to programme and use. Finding your way around a long video tape is simplified with the Time used/Time Remaining indicators and the provision of Index searching and Auto Scan on more advanced models. A GoTo function is included for easy searching - on the top model this can even be programmed in hours and minutes.

Remote controls feature LCD displays to help with error-free programming. Commands can be reviewed and edited - once the programme is set up correctly on the handheld remote it can be transmitted in one block to the video recorder.

Euroconnector sockets simplify the connection of these advanced video recorders into any AV system.

Better pictures.

The Marantz video cassette recorder range can boast one of the finest pictures to match its outstanding dynamic sound quality. Four-stage picture improvement circuits - HQ+ (High Quality Plus) - work to enhance



PIP (Picture In Picture)

picture detail for higher resolution. Sharper transitions from black to white give a crisper picture while the HQ+ circuit also improves colour saturation and reduces picture noise.

Digital pictures.

Digital picture memory (DPM) allows you to add picture-in-picture (PIP) facilities to any television. Multiple PIP shows the next four programmed channels in the corners of the screen - three in still frame, with a fourth in full

© beim Hersteller
Archiv Michael Otto



Video drum disassembled

motion and sound. Shift and Swap functions enable you to move the frames around the screen and interchange the main picture with a still-framed PIP. This offers enormous flexibility in monitoring and selecting programmes and can be used to explore video still frame at will.

The video head drum is a masterpiece of micro engineering. Laser refined head contours and scrupulous electron microscope examination of the head surface during manufacture guarantees a truly high definition picture with perfect ultra-slow motion and a perfect still frame rivalling even digital picture memories. Precision manufacture also ensures minimum wear.

The video tape transport which delivers the magnetic tape to the whirling video drum is every bit as important. The tape's progress is constantly monitored with auto tracking electronics to give the

crispest picture. Skill in production, the correct choice of materials and scrupulous care in assembly enables Marantz to offer a reliable and accurate video tape transport for the cleanest, sharpest pictures.

*© beim Hersteller
Archiv Michael Otto*



MV885

HI-FI VIDEO RECORDER

■ Six-head hi-fi VHS Video cassette recorder ■ VISS - VHS Index Search System ■ Eight hours audio/video recording and playback with true hi-fi quality sound ■ Digital Picture memory ■ Picture-in-picture (PIP) ■ Eight event timer for up to one year in advance (or eight events daily or weekly) ■ x2 x5 and x9 forward and reverse search ■ Variable 1/5 and 1/30 forward and reverse slow speed ■ One-touch Timer recording (OTR) ■ On-screen-Display (OSD) ■ TV Channel Search displays received channels in picture corners ■ 99 station presets ■ Automatic Fine Tuning ■ FST tuning for 120 channels

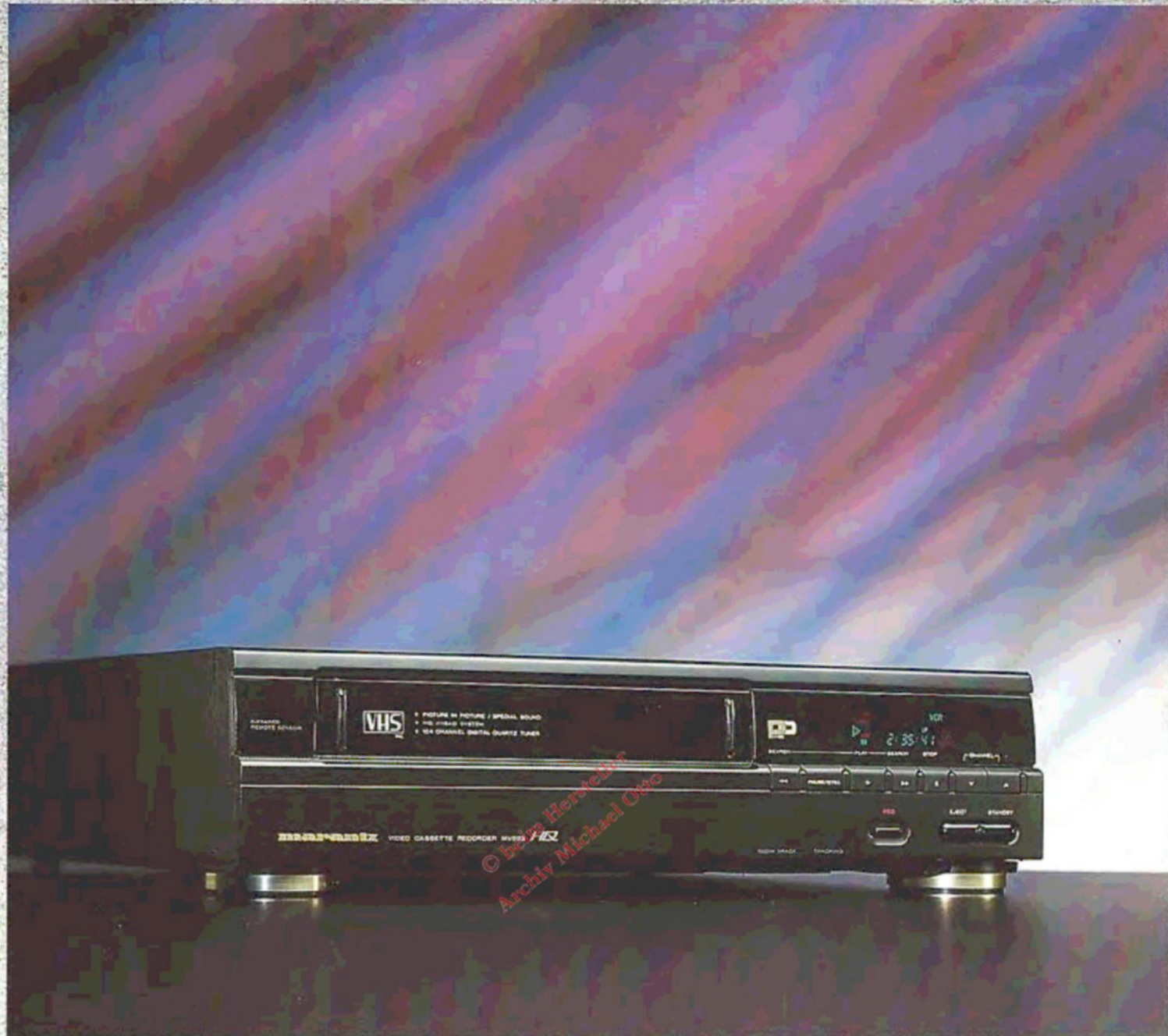




MV693

HI-FI VIDEO RECORDER

- Midi-width (360mm) four-head hi-fi VHS Video cassette recorder
- LCD transmitter remote
- Four hours audio recording and playback with true, hi-fi quality sound
- HQ picture enhancement
- Simulcast recording
- Stereo decoder
- Audio dubbing
- Eight event timer for up to one month in advance (or eight events daily or weekly)
- x7 and x9 speed search forwards and back
- Variable slow speed replay
- Fast play to function
- One-touch Timer recording (OTR)
- Automatic rewind
- Fluorescent audio level meter
- Real time display of tape used/remaining
- 104 channel FST tuning
- Built-in test signal
- 48 station presets



MV593

HI-FI VIDEO RECORDER

- Midi-width (360mm) digital four-head VHS Video cassette recorder
- LCD transmitter remote
- Four hours recording and playback
- HQ picture enhancement
- Digital Picture memory
- Picture-in-picture (PIP)
- Eight event timer for up to one month in advance (or eight events daily or weekly)
- x7 and x9 speed search forwards and back
- Variable slow speed replay
- Fast play
- Goto function
- One-touch Timer recording (OTR)
- Automatic rewind
- Real time display of tape used/remaining
- 104 channel FST tuning
- Built-in test signal
- 48 station presets



MV685

VIDEO RECORDER

- Three-head high resolution VHS Video cassette recorder
- LCD transmitter remote for eight timer blocks
- Eight hours audio recording and playback with true hi-fi quality sound
- Four stage HQ+ picture enhancement gives one of the best pictures around
- Replay of the sound-track portion of the video signal has been improved for greater impact from films
- Eight event timer for up to one month in advance (or eight events daily or weekly)
- x3 and x7 forward real-time and x7 reverse search
- Frame stepping
- Perfect noise-free still frame
- One-touch Timer recording (OTR)
- On-screen Display (OSD)
- Index Search and Goto functions
- Automatic Fine Tuning
- Built-in test signal
- 48 station memory



AUDI VIDEO SYSTEMS.

The heart of each Marantz audi video system is a fully equipped AV amplifier. Designed with the same care as Marantz Audiophile amplifiers the audi AV amps are equally capable of driving quality loudspeakers with clear, wide dynamic range sound.

True digital technology comes to the audi system with the outstanding PM593 optical digital Master Amplifier. Using a Bit-stream digital convertor this amplifier also offers direct optical digital connections.

The MX systems accept and switch video signals from CDV and video cassette. They can bring the excitement of cinema sound into the home with the optional SP493 Dolby Surround decoder. This unit has its own built-in rear channel amplifier, requiring only the addition of rear speakers to generate cinema surround sound effects.

Full remote control of all components is offered (including control of the Dolby Surround effects) through the Marantz Digital BUS and the appropriate remote commander.



MX683

AUDIO/VIDEO MIDI SYSTEM

PM683 Master Amplifier

- 3x70W (EIAJ) power ■ Dedicated amplifiers for two front stereo and rear surround channel ■ Extensive switching for audio inputs (tuner, CD, phono, and tape monitor) plus audio and video inputs for TV, CDV and two VCRs (one monitor) ■ Seven-band graphic equalizer with spectrum analyzer ■ Dolby Surround Sound ■ Acoustic memory ■ Timer function with switched outlets for CD and turntable ■ Sleep function ■ One-touch timer recording mode selector ■ Scart (Euro-connector) for TV and VCR1

ST673 Digital Tuner

- FM/AM quartz synthesized tuner ■ 16 FM and 8 AM preset memories

SD873 Double cassette Deck

- Twin logic decks with automatic sequential play and auto reverse ■ Dolby B and C ■ Automatic tape sensing for bias and equalization ■ Automatic recording control

CD883 Compact Disc player

- Twin 16-bit DAC with four times oversampling and digital filtering ■ Fully floating transport and independent power supplies ■ 20-track memory and direct access to 99 tracks ■ Automatic Music Search ■ 23 key Remote Control ■ Syncro Recording with SD873

TT873 Turntable

- Fully automatic belt-drive ■ Linear tracking low-mass tonearm ■ Synchronizing output to SD873 cassette deck

RC 73 Digital BUS Remote Control Commander

- Full A/V remote control for all MX683 components and with unlimited upgrading capability ■ Surround Sound control ■ Acoustic Memory recall ■ Graphic equalizer control ■ Master volume and balance; power on/off and Standby



HD583

SYSTEM LOUDSPEAKER

■ High sensitivity three-way loudspeaker ■ 70W (EIAJ) power handling to match the outstanding performance of the MX mid-Audio Video systems ■ 200 mm bass driver gives powerful deep bass ■ 80 mm midrange driver and 25-mm tweeter for clean mid and sweet treble

HD483

SYSTEM LOUDSPEAKER

■ High sensitivity reflex-loaded two-way loudspeaker ■ 70W (EIAJ) power handling to match the outstanding performance of the MX mid-Audio Video systems ■ 160-mm bass driver with reflex loaded cabinet for sensitivity and excellent bass extension ■ 80-mm midrange/tweeter for distortion free reproduction



To match the outstanding performance of the MX mid systems Marantz recommends the high efficiency HD583 and HD483 system loudspeakers. These speakers are designed to match the compact good looks of the MX systems and to offer matching low distortion, high performance sound.



MX593

AUDIO/VIDEO MIDI SYSTEM

PM593 A/V Optical Digital Master Amplifier

■ 140W total system power ■ Bit-stream digital-to-analogue converter with highly linear performance at low levels for superb music reproduction ■ Full AV capability ■ Multi-digital interface with automatic switching between CD, DAT and satellite sampling frequencies ■ Motorized volume control ■ Surround In/Out ■ Signal processor In/Out ■ Optical fibre link with CD593

ST583 Digital Tuner

■ FM/AM synthesizer tuning with automatic station scan ■ 16 FM and 8 AM presets ■ Full remote control ■ One-touch connection to Master Amplifier

SD593 Double cassette Deck

■ Twin full logic record/playback mechanisms ■ High speed dubbing, sequential play and autoreverse for extended continuous play ■ Dolby B and Dolby C ■ Tape bias, equalization and level are automatically set for all kinds of tape

CD593 Compact Disc player

■ 16-bit digital-to-analogue converter ■ Four-times oversampling digital filter ■ Accepts 3-inch (8cm) discs (CD singles) ■ 20-track random programming ■ High-impact polystyrene chassis ■ One touch connection to Master Amplifier ■ Remote control and synchronized recording

TT493 Turntable

■ DC servo controlled belt drive ■ Semi-automatic operation ■ Low mass, straight arm

RC59MX 41-key IR Remote Control Commander

■ RC-5 control codes ■ Wide compatibility - up to 300 functions ■ Controls motorized volume control on Master Amplifier

SP493 Dolby Surround Processor

■ Dolby Surround Decoder with rear channel amplifier ■ Variable time delay to adjust for any room ■ Matrix and Spatial effects gives enhanced sound quality from established sources

EQ493 Graphic Equalizer

■ 9-band equalizer ■ 9-band spectrum analyzer ■ EQ Defer to give instant comparisons



MX583

AUDIO/VIDEO MIDI SYSTEM

PM583 Master Amplifier

■ 140W total system power ■ Full AV capability ■ Seven-band Spectrum Analyzer ■ Seven-band EQ Level display ■ Acoustic Memory for Surround mode, equalizer, volume and balance ■ Accepts inputs from video recorder, CDV player and TV Monitor

ST583 Digital Tuner

■ FM/AM synthesizer tuning with automatic station scan ■ 16 FM and 8 AM presets ■ Full remote control ■ One-touch connection to Master Amplifier

SD583 Double-cassette Deck

■ Auto reverse double deck ■ High speed dubbing ■ Continuous play ■ Dolby B and C ■ Full logic control ■ Blank Skip ■ Compu Skip ■ Blank Search ■ Intro Scan and Auto replay ■ Tape bias, equalization and level are automatically set

CD583 CD Player

■ Dual 16-bit DAC for low distortion ■ Four-times oversampling digital filter ■ Random (Shuffle) play ■ Repeat ■ 20-track random programming

TT483 Turntable

■ DC servo controlled belt-drive turntable ■ Semi-automatic operation ■ Low mass, straight arm

RC 53 41-key IR Remote Control Commander

■ RC-5 control codes ■ Wide compatibility - up to 300 functions ■ Operates motorized volume control on Master Amplifier

SP493 Dolby Surround Processor

■ Dolby Surround Decoder with rear channel amplifier ■ Variable time delay to adjust for any room ■ Matrix and Spatial effects gives enhanced sound quality from established sources



MX493II

AUDIO/VIDEO MIDI SYSTEM

PM493 Master Amplifier

■ High power 2x70W (EIAJ) ■ Accepts inputs from video recorder, CDV player and TV Monitor ■ Offers full remote control through digital BUS with RC 43

ST583 Digital Tuner

■ FM/AM synthesizer tuning with automatic station scan ■ 16 FM and 8 AM presets ■ Full remote control ■ One-touch connection to Master Amplifier

SD593 Double cassette Deck

■ Auto reverse double deck ■ High speed dubbing ■ Continuous play ■ Dolby B and C ■ Full logic control ■ Blank Skip ■ Compu Skip ■ Blank Search ■ Intro Scan and Auto replay ■ Tape bias, equalization and level are automatically set

CD593 Compact Disc player

■ 16-bit digital-to-analogue converter ■ Four-times oversampling digital filter ■ Accepts 3-inch (8cm) discs (CD singles) ■ 20-track random programming ■ High-impact

polystyrene chassis ■ One-touch connection to Master Amplifier ■ Remote control and synchronized recording

TT493 Turntable

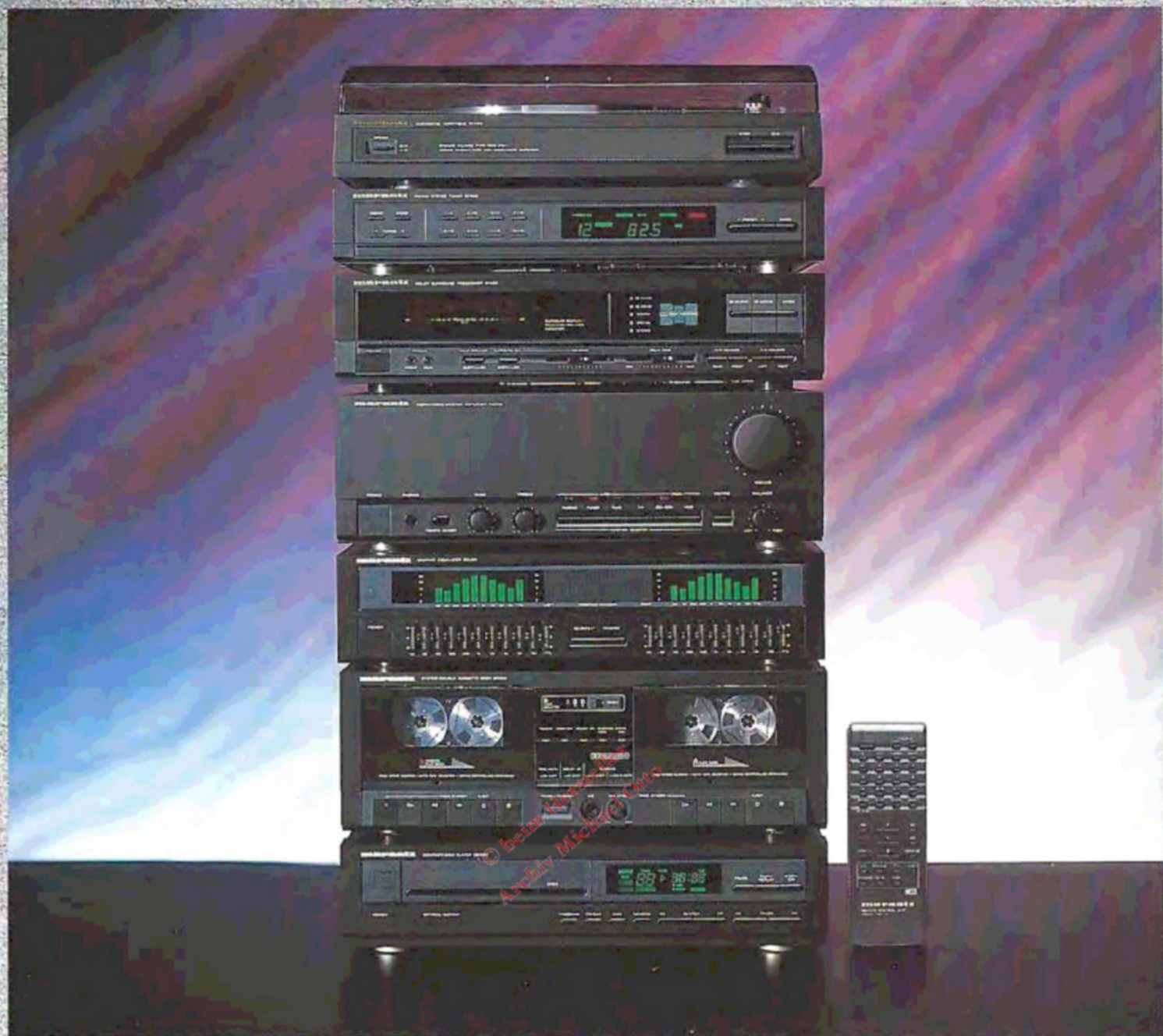
■ DC servo-controlled belt-drive ■ Semi-automatic operation with controls on front panel ■ Low mass, straight arm

RC 43 39-key IR Remote Control Commander

■ Remote control of all sources in system ■ Operates motorized volume control on Master Amplifier

SP493 Dolby Surround Processor

■ Dolby Surround Decoder with rear channel amplifier ■ Variable time delay to adjust for any room ■ Matrix and Spatial effects gives enhanced sound quality from established sources



MX393II

AUDIO/VIDEO MIDI SYSTEM

PM493 Master Amplifier

■ High power 2x70W (EIAJ) ■ Accepts inputs from video recorder, CDV player and TV Monitor ■ Offers full remote control through digital BUS with RC 43

ST583 Digital Tuner

■ FM/AM synthesizer tuning with automatic station scan ■ 16 FM and 8 AM presets ■ Full remote control ■ One-touch connection to Master Amplifier

SD283 Double cassette Deck

■ Double deck with soft touch control ■ High speed dubbing ■ Continuous play ■ Dolby B ■ Tape bias, equalization and level are automatically set ■ Microphone mixing

CD593 Compact Disc player

■ 16-bit digital-to-analogue converter ■ Four-times oversampling ■ Accepts 3-inch (8cm) discs (CD singles) ■ 20-track random programming ■ High-impact polystyrene chassis ■ One-touch connection to Master Amplifier ■ Remote control and synchronized recording

TT493 Turntable

■ DC servo-controlled belt-drive ■ Semi-automatic operation with controls on front panel ■ Low mass, straight arm

RC 43 39-key IR Remote Control Commander

■ Remote control of all sources in system ■ Operates motorized volume control on Master Amplifier

PORTABLE CASSETTE DECKS.

Professionals and demanding amateur tape recordists choose Marantz portable stereo recorders. The latest machines have been made lighter than ever through the use of external mains power adapters. A choice of noise reduction permits top-quality location recording and compatibility with pre-recorded cassettes.

These sturdy portables offer the same features and facilities of high-specification domestic cassette decks. Controls are designed for quick and easy operation on the move. Revised digital-ready input circuits give greatly improved headroom for wider dynamic range. Transports now give even lower wow and flutter.



CP430 PORTABLE TAPE DECK

- Three heads for off-tape monitoring
- Anti-roll tape transport with micro-grain capstan for lowest wow and flutter
- Dolby B and dbx noise reduction give compatibility with commercial pre-recorded cassettes and permits lowest noise, widest dynamic range recordings
- Metal tape compatible
- Comprehensive

microphone inputs ■ Built-in loudspeaker for convenient location monitoring



CP230 PORTABLE TAPE DECK

- Anti-roll tape transport with micro-grain capstan for lowest wow and flutter
- Dolby B noise reduction provides compatibility with commercial pre-recorded cassettes
- Metal tape compatibility
- Built-in loudspeaker with channel select for location monitoring
- Cue and review with sound



EM 8 MICROPHONE

- Single-point stereo microphone ideal for use with CP430/CP230
- 100Hz to 17kHz frequency response for life-like recordings

RB430 RE-CHARGEABLE BATTERY (NOT SHOWN)

- Re-chargeable battery replaces conventional batteries with single convenient pack

TECHNICAL SPECIFICATIONS

CASSETTE DECKS	SD 60	SD 50	SD 40	SD45II	SD 35
Mechanism	logic	logic	logic	logic	logic
Motors and type	2 DC	2 DC	2 DC	2 DC	2 DC
Numbers of heads	3	2	2	2	2
Auto tape selection	yes	yes	yes	yes	yes
Frequency response(without Dolby)					
Normal tape	20 Hz-19 kHz	20 Hz-18 kHz	20 Hz-17 kHz	20 Hz-18 kHz	20 Hz-17 kHz
Chrome tape	20 Hz-20 kHz	20 Hz-19 kHz	20 Hz-18 kHz	20 Hz-19 kHz	20 Hz-18 kHz
Metal tape	20 Hz-21 kHz	20 Hz-20 kHz	20 Hz-19 kHz	20 Hz-20 kHz	20 Hz-19 kHz
Signal to noise ratio(Chrome tape 1 kHz)					
With Dolby B/C	70/78dB	68/75 dB	65/74 dB	68/75 dB	65/74 dB
Without Dolby	65 dB	59 dB	57 dB	59 dB	57 dB
Wow and flutter RMS weighted	0.03%	0.05%	0.06%	0.06%	0.06%
Outputs					
Line level/impedance	500 mV/2 kOhm	500 mV/3 kOhm	500 mV/3 kOhm	500 mV/3.3 kOhm	500 mV/3.3 kOhm
Headphone level/impedance	85 mV/110 Ohm	85 mV/110 Ohm	85 mV/110 Ohm	50 mV/100 Ohm	50 mV/100 Ohm
Dimensions(WxHxD)	420x132x280 mm	420x118x280 mm	420x118x280 mm	420x100x260 mm	420x100x260 mm
Net weight	6.5 kg	5.3 kg	5.0 kg	4.4 kg	4.5 kg
Power supply					
N and W/T versions	220/240 V AC	220/240 V AC	220/240 V AC	220/240 V AC	220/240 V AC
E version (4 voltages)	110-240 V AC	110-240 V AC	110-240 V AC	110-240 V AC	110-240 V AC

CASSETTE DECKS	SD585	SD385	SD285	TUNERS	ST 50	ST 54	ST 35
Mechanism	2x logic	2x soft	2x soft	FM Stage(87.5-108 MHz)			
Motors and type	4 DC	2 DC	2 DC	Sensitivity			
Numbers of heads	4	3	3	DIN mono (s/n 26 dB 75 Ohm)	0.7 µV	0.7 µV	0.9 µV
Auto reverse	yes	yes	yes	DIN stereo (s/n 46 dB 75 Ohm)	20 µV	20 µV	25 µV
Auto tape selection	yes	yes	yes	Total harmonic distortion mono			
High speed dubbing	yes	yes	yes	Selectivity adjacent channel 98 MHz	40*/75** dB	40*/75** dB	65 dB
				(*Wide IF **Narrow IF)	940 mV	940 mV	940 mV
				Tuner output (1kHz 75kHz Dev.)			
Frequency response(without Dolby)				Signal to noise ratio			
Normal tape	20 Hz-16 kHz	20 Hz-16 kHz	20 Hz-16 kHz	S/N DIN weighted mono	86 dB	85 dB	76 dB
Chrome tape	20 Hz-17 kHz	20 Hz-17 kHz	20 Hz-17 kHz	S/N DIN weighted stereo	76 dB	76 dB	70 dB
Metal tape	20 Hz-18 kHz	20 Hz-18 kHz	20 Hz-18 kHz	Total harmonic distortion mono	0.05*/0.15** %	0.05*/0.15** %	0.1 %
				Total harmonic distortion stereo	0.8*/0.3** %	0.8*/0.3** %	0.2 %
Signal to noise ratio(Chrome tape 1 kHz)				Accuracy of frequency response across 30Hz-15kHz bandwidth	+0.5/-1.5 dB	+0.5/-1.5 dB	+0.5/-2 dB
With Dolby B/C	65/71 dB	65/70 dB	65-70 dB	Stereo separation	55*/50** dB	55*/50** dB	45 dB
Without Dolby	56 dB	55 dB	55 dB				
Wow and flutter RMS weighted	0.07%	0.08%	0.08%	MW Stage (531-1602 kHz)			
				Sensitivity (s/n 20 dB 30% mod. 1 MHz)	350 µV	350 µV	400 µV
Outputs				Selectivity 1 MHz ± 9 kHz	40 dB	40 dB	30 dB
Line level/impedance	500 mV/2 kOhm	600 mV/2 kOhm	600 mV/2 kOhm	Signal to noise ratio at 1 MHz	54 dB	54 dB	50 dB
Headphone level/impedance	50 mV/70 Ohm	50 mV/8 Ohm	50 mV/8 Ohm				
Dimensions(WxHxD)	420x100x260 mm	420x115x260 mm	420x115x260 mm	LW Stage (153-281 kHz)			
Net weight	5.3 kg	4.8 kg	4.8 kg	Sensitivity (s/n 20 dB 30% mod. 250 kHz)	800 µV	800 µV	800 µV
				Signal to noise ratio at 250 kHz	50 dB	50 dB	45 dB
Power supply				Dimensions(WxHxD)	420x86x334 mm	416x73x295 mm	420x60x260 mm
N and W/T versions	220/240 V AC	220/240 V AC	220/240 V AC	Net weight	4.5 kg	3.4 kg	2.8 kg
E version (4 voltages)	110-240 V AC	110-240 V AC	110-240 V AC	N and W/T versions	220/240 V AC	220/240 V AC	220/240 V AC
				E version (4 voltages)	110-240 V AC	110-240 V AC	110-240 V AC

MIDI SYSTEMS	MX683	MX593	MX583	MX483	MX493II	MX393II
TUNERS						
FM Stage (87.5-108 MHz)						
Sensitivity DIN (s/n 26 dB) mono	1.0 µV	1.0 µV	1.0 µV	1.0 µV	1.0 µV	1.0 µV
Signal to noise ratio DIN mono	73 dB	73 dB	73 dB	73 dB	73 dB	73 dB
MV stage (531-1602 kHz)						
Sensitivity (s/n 20 dB 30% mod 1 MHz)	500 µV	500 µV	500 µV	500 µV	500 µV	500 µV
LW stage (153-281 kHz)						
Sensitivity (s/n 20 dB 30% mod 250 kHz)	1000 mV	1000 mV	1000 mV	1000 mV	1000 mV	1000 mV
Dimensions(WxHxD)	360x55x300 mm	360x55x300 mm	360x55x300 mm	360x55x300 mm	360x55x300 mm	360x55x300 mm
Net weight	3.0 kg	3.0 kg	3.0 kg	3.0 kg	3.0 kg	3.0 kg
AMPLIFIERS						
T.S.P.(total system power, EIAJ, 6 Ohms)	PM683	PM593	PM583	PM583	PM493	PM493
DIN 8 Ohms	210 W	140 W	140 W	140 W	140 W	140 W
T.H.D. (at 1/2 rated output)	3x 40 W	2x 40 W	2x 40 W	2x 40 W	2x 40 W	2x 40 W
IM (at 1/2 rated output)	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
Signal to noise ratio	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
Frequency response	90 dB	100 dB	75 dB	75 dB	75 dB	75 dB
Tone characteristics	10 Hz-50 kHz	10 Hz-50 kHz	10 Hz-50 kHz	10 Hz-50 kHz	10 Hz-50 kHz	10 Hz-50 kHz
"Dolby Surround"	7BEQ ± 10 dB	Bass+Treble	7BEQ ± 10 dB	7BEQ ± 10 dB	Bass+Treble	Bass+Treble
Dimensions(WxHxD)	yes	SP493 option	SP493 option	SP493 option	SP493 option	SP493 option
Net weight	360x120x300 mm	360x110x300 mm	360x120x300 mm	360x120x300 mm	360x110x300 mm	360x110x300 mm
	7.5 kg	6.8 kg	7.2 kg	7.2 kg	6.5 kg	6.5 kg
CASSETTE DECKS						
Motors and type	SD673	SD593	SD583	SD283	SD593	SD283
Frequency response (CrO2 tape)	4 DC	4 DC	4 DC	2 DC	4 DC	2 DC
Signal to noise ratio	20 Hz-18 kHz	30 Hz-17 kHz	30 Hz-17 kHz	30 Hz-17 kHz	30 Hz-17 kHz	30 Hz-17 kHz
(CrO2 tape 1kHz Dolby B/C)	65/73 dB	65/73 dB	65/73 dB	65/73 dB	65/73 dB	65/73 dB
Wow and flutter DIN Weighted						
Dimensions(WxHxD)	0.12%	0.15%	0.15%	0.15%	0.15%	0.15%
Net weight	360x120x300 mm	360x120x300 mm	360x120x300 mm	360x120x300 mm	360x120x300 mm	360x120x300 mm
	4.8 kg	4.3 kg	4.3 kg	4.2 kg	4.3 kg	4.2 kg
COMPACT DISC PLAYERS						
Frequency range (0.1 dB)	CD883	CD593	CD583	CD583	CD593	CD593
Dynamic range	20 Hz-20 kHz	20 Hz-20 kHz	20 Hz-20 kHz	20 Hz-20 kHz	20 Hz-20 kHz	20 Hz-20 kHz
Signal to noise ratio	> 96 dB	> 96 dB	> 96 dB	> 96 dB	> 96 dB	> 96 dB
Total harmonic dist.(incl. noise)	> 102 dB	> 102 dB	> 102 dB	> 102 dB	> 102 dB	> 102 dB
IM distortion (at maximum output)	0.0015%	0.0015%	0.0015%	0.0015%	0.0015%	0.0015%
D/A converter/oversampling	≥90 dB	≥90 dB	≥90 dB	≥90 dB	≥90 dB	≥90 dB
Dimensions(WxHxD)	2x16 bit/4x	2x16 bit/4x	2x16 bit/4x	2x16 bit/4x	2x16 bit/4x	2x16 bit/4x
Net weight	360x80x300 mm	360x80x300 mm	360x80x300 mm	360x80x300 mm	360x80x300 mm	360x80x300 mm
	3.5 kg	3.5 kg	3.5 kg	3.5 kg	3.5 kg	3.5 kg

TECHNICAL SPECIFICATIONS

TV	MT895	REMOTE CONTROL	RC593	CD VIDEO PLAYERS	CV 60	CV 55
Standard	Multistandard Euro	Head-to-head learning		Number of channels	2	2
Picture tube	33"(85 cm) FSO 110 (gradientek)	Distance between units	5-15 cm	Frequency range (0.1dB limits)	2 Hz-20 kHz	2 Hz-20 kHz
Sound	2x40 Watts Music Power EXTERNAL	Range of carrier frequencies	14-70 kHz	Signal to noise ratio	> 100 dB	> 100 dB
	2x 5 Watts Music Power INTERNAL	Maximum code bits in learning code	50	Dynamic range	> 102 dB	> 96 dB
Surround sound	2X20 Watts Music Power FRONT	Maximum repetition bits in learning code	100	Channel separation(at 1kHz)	> 100 dB	> 96 dB
	2x 6 Watts Music Power REAR	Maximum number of RC-5 learning codes	296	Total harmonic distortion(at 1kHz)	0.0015% (1 kHz)	0.003% (1 kHz)
Tuning system	F.S.T./90 presets	Maximum number of other learning codes	about 150	Wow and flutter	quartz precision	quartz precision
TV Systems	PAL B/G SECAM B/G/L NTSC M	Maximum number of preset codes	740	D/A converter(A version)	2x 16 bit	2x 16 bit
	NTSC VIDEO	Maximum number of D-Bus codes	2.560	Four-times oversampling	yes	yes
Channels select	VHF/UHF/S/Hyperband	Transmitter		Optical read-out element		
Aerial input	75 Ohms Coaxial	Maximum number of x15 command strings	4	Laser type	3 beam	Semiconductor
O.S.D.	Linear functions/programmes Nb and titles/ bxt pages number and survey	Reach distance	8 m	Video specifications		AIG or As
	Four corners/freeze frame	Acceptable angle	30°	System	PAL	PAL
P.I.P.	4 pages memory/20 page numbers memory	General		Signal to noise ratio	>44 dB	>44 dB
Teletext	Stereo headphones(jack) Video/Audio(cinch)	Supply voltage(1.5Vx4)	4.2 V ±0.2	Resolution(horizontal)	440 lines	450 lines
Connections	SVHS, Euroconnectors(2) Audio out(cinch)	Backup Battery(Lithium)	3 V	Dimensions(WxHxD)	420x110x410 mm	420x100x393 mm
	Loudspeakers(4)	Battery life		Weight	8 kg	8 kg
Miscellaneous	Ambiant T° max. 40°C min 5°C	Main batteries-Use mode	> 1 year	Power supply		
	Mains 220/240 (± 10%)50Hz	(x30 transmit/day)		N and W/T versions	220/240 V AC	220/240 V AC
	Power consumption 155 Watts	-Learn mode	± 1 year			
	(8 Watts standby)	Backup battery	> 5 years			
Weight	70 Kg					
Dimensions(WxHxD)	690x780x580 mm					

TURNTABLES	TT400	TT275	TT185	TT873	TT493	TT483
Drive system	Belt	DD	Belt	Belt	Belt	Belt
Motor type	DC-Servo	FG-Servo	FG-Servo	DC	DC-Servo	DC-Servo
Wow and flutter DIN weighted	0.06%	0.06%	0.09%	0.08%	0.09%	0.09%
Wow and flutter RMS weighted	0.04%	0.04%	0.08%	0.05%	0.06%	0.06%
Rumble DIN	75 dB	75 dB	70 dB	72 dB	70 dB	70 dB
Dimensions(WxHxD)	420x105x336 mm	416x100x337 mm	416x115x385	360x75x300 mm	360x102x350 mm	360x102x350 mm
Net weight	4.8 kg	3.9 kg	3.5 kg	3.5 kg	2.6 kg	2.6 kg

VIDEO RECORDERS	MV885	MV685	MV693	MV593
TV system	Version 02: PAL BG/ VPS/SECAM BG	Version/02	Version/02	Version/02
	Version 39: PAL BG/ SECAM L	PAL BG/VPS/SECAM	PAL BG	PAL BG
Video recording system	4 video heads/ 2 audio heads	3 video heads/ 2 audio heads	4 video heads/ 2 audio heads	4 video heads
Recording/playback capability	8 hrs video/ 8 hrs audio	4hrs video/ 8 hrs audio	8 hrs video/ 8 hrs audio	8 hrs video
Audio frequency response(hifi)	20Hz-20kHz±0.3dB	20Hz-20kHz±0.5dB	20Hz-20kHz±0.5dB	80 Hz-12 kHz
Audio s/n ratio (hifi)	> 90 dB	> 90 dB	> 90 dB	-
Wow and flutter	0.005%	0.005%	0.005%	0.05%
Video horizontal resolution	≥ 3.5 MHz	≥ 3.1 MHz	≥ 3.3 MHz	≥ 3.3 MHz
Video signal to noise	≥ 50 dB	≥ 47 dB	≥ 48 dB	≥ 48 dB
Power requirement	51 W max.	27 W (14 W)	27 W (14 W)	27 W (14 W)
Dimensions	430x389x114 mm	420x83x270 mm	360x87x330 mm	360x87x330 mm
Weight	9.3 kg	7.5 kg	5 kg	5 kg

LOUDSPEAKERS	LS 95	LD600MS	LD500MS	LD200MS
System	4-way	3-way	2-way	2-way
Power	300 W	100 W	100 W	60 W
Sensitivity(1kHz/1W/1m)	87 dB	88 dB	88 dB	88 dB
Frequency response	25 Hz-60 kHz	25 Hz-30 kHz	25 Hz-30 kHz	40 Hz-30 kHz
Impedance	8 Ohm	8 Ohm	8 Ohm	8 Ohm
Transducers: woofer	2x200 mm	200 mm	200 mm	160 mm
midrange	Isophase	25 mm	-	-
tweeter	Isophase	19 mm	19 mm	19 mm
Dimensions(WxHxD)	1360x400x340 mm	270x420x270 mm	270x420x270 mm	230x378x241 mm

PORTABLE CASSETTE DECKS	CP430	CP230
Motors and type	DC-Servo	DC-Servo
Number of heads	3	3
Peak indication system	VU meter	VU meter
Frequency response without Dolby		
Chrome tape	20 Hz-18 kHz	20 Hz-18 kHz
Metal tape	20 Hz-20 kHz	20 Hz-20 kHz
Signal to noise ratio(Chrome tape 1 kHz)		
With Dolby B/cb	65/80 dB	65 dB
Without Dolby	59 dB	54 dB
Wow and flutter DIN weighted	0.15%	0.15%
Wow and flutter RMS weighted	0.09%	0.09%
Dimensions	227x50x165 mm	227x50x165 mm
Net weight	1.3 kg	1.2 kg

marantz®

PURE HIGH FIDELITY

Marantz Japan Inc., 35-1 Sagami-cho 7-chome, Sagami-hara City, Kanagawa 229
Headquarters: Marantz International, P.O. Box 213, Building HCM-10, Vastdijk 9, 5600 MD Eindhoven, the Netherlands
Marantz Trading S.A., 86 Rue des Deux Gares, 1070 Bruxelles, Belgium
Andorra: Ischia, Aviguda Carlemany 83, Les Escades
Australia: Marantz Australia PTY LTD., Figtree Drive, Homebush NSW 2140
Austria: Hörnyphon, Vertriebsges. M.B.H., Wienerbergstrasse 1, A-1101 Wien
Bahrain: Eastern Trading House, 24 Bab El-Bahrain Avenue, Manama
Belgium: Marantz Belgium, Industrielaan 1, 1720 Groot-Bijgaarden
Canary Islands: Ribes Canarias, Maravideo 57, Las Palmas
Denmark: Marantz, Prags Boulevard 80, 2300 København S
Finland: Marantz, Kaivokatu 6, 00100 Helsinki
France: Marantz France, Rue Bernard Palissy 4, 92600 Asnières
Germany: Marantz GmbH, Max-Planck-Strasse 22, 6072 Dreieich 1
Greece: Adamco S.A., Ippocratus Street 188, Athens 11410
Iceland: Radio Budin, Skopholt 19, 121 Reykjavik
Italy: Marantz (Italy) S.r.l., V.le E. Testi 280, 20126 Milano, Servizio Consumatori 1678-20026 (linea verde)
Kuwait: Al Alamiah Electronics International, Ussama building, Fahd Al-Salem St., P.O. B. 23781, Safat
Netherlands: Marantz, Winthoutlaan 26, 3526 KV Utrecht 1
Norway: Marantz, Sandstuveien 70, 0612 Oslo 6
Panama: L.L. Maduro Jr., Zona Libre Colon, Calle Eusebio A. Morales, El Cangrejo, Apdo 281, Panama 1
Panama: Victoria Enterprise S.A., P.O. Box 3187, Zona Libre Colon
Portugal: Coral, Av. da Liberdade 211-2, 1200 Lisboa
Reunion: Interface SARL, 65 Rue Felix Guyon, 97400 St. Denis
Saudi Arabia: Al Alamiah Electronics Int'l., University Street Al Shaikh Saad Abdullah Bldg, Riyadh
Spain: Phono S.A., Ignacio Iglesias 10, Badalona (Barcelona)
Sweden: Marantz Nordic, Tegeluddsvägen 1, 115 84 Stockholm
Switzerland: Marantz AG, Friedenstrasse 9, 8952 Schlieren Zürich
U.A.E.: V.V. Electronics, P.O. Box 105, Dubai
U.K.: Marantz Audio UK Ltd., Unit 15-16, Saxon Way Industrial Estate, Moor Lane, Harmondsworth UB7 0LW
Yugoslavia: Velebit, Opor. Zastupstva Repromaterijala "D. Solto", Babukiceva 3A, P.O. Box 1044, Yu-4100 Zagreb

Availability of models may differ from country to country.
MARANTZ reserves the right to change the design and specification of goods without notice.
Dolby and Dolby Surround are the registered trade marks of Dolby Laboratories Inc.

NOTE: Recording and playback may require consent. For information please refer to Copyright Act 1956, Dramatic and Musical Performances Act 1968, Performers Protection Act 1963 and 1972, and to any subsequent statutory enactments and orders.

Concept, design and production by Two's Company, Eindhoven, The Netherlands
Printed in The Netherlands by Chevalier Printers, H.J. Ambacht, 3122-321 20722