

marantz®



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Throughout our product range, the attention to detail is quite obvious. Accurate specification and measurements and use of customs components and techniques ensures that Marantz passes the test of musical excellence. Separate power supplies are provided in most products, especially where digital and analogue circuits are employed, or when high currents are involved.

Non-magnetic copper plating is used on the amplifier chassis to reduce distortion-inducing electro-magnetic coupling.

Right across the range the listening benefits of using oxygen-free high purity copper cable, customs designed ceramic capacitors and high quality copper styrol film capacitors have been identified and incorporated.

Other technological achievements can be described as follows:

Quarter A amplification

Quarter A is unique to Marantz. It combines the unmistakable clarity headroom capable of handling the highest peaks from modern digital recordings.

Up to one quarter of its nominal power output the amplifier operates in pure class A. Above this level, the amplifier changes to class AB amplification to allow realistic reproduction of the full musical performance.

AVSS

(Automatic Voltage Shift Supply)

The AVSS enables the amplifier to respond to wide dynamic ranges. In a conventional amplifier, a sudden high level signal will try to drain the power supply beyond its immediate capacity. The extra energy needed cannot be supplied. AVSS is designed

Since our early days, when we were involved in the production of some of the most refined valve amplifiers, right through to the most sophisticated compact disc player of the 80's, we have been at the forefront of the technological development.

Marantz is without doubt, a company that is known for its long term commitment to musical enjoyment through technological excellence. In the 80's compact disc has been an important factor in our company's growth. Marantz produced many of the first players heard and used by reviewers and music critics. Today we still retain our lead in digital technology and many of the features found in our new products are the expression of this know-how.

**For us,
the realistic reproduction of
music is the essential premise.**

1. Custom components
2. Advanced Laser pick-up assembly
3. Non magnetic copper plating
4. All-metal cassette mechanism

to cope with such situations by acting as a double supply.

Custom components

Clearly the components used play a major part in the resulting sound quality produced by an amplifier.

In our amplifiers we use ceramic damped capacitors. The ceramic powder controls the vibration at high current and sound level.

Compact disc "Z" filter.

The D/A converter and the low-

pass filter are the most critical part of any compact disc when it comes to sound quality.

Marantz players use an all-digital filter with the sampling frequency running at four times the normal speed – nearly 180,000 times per second (176.4 kHz). Any harmonic distortion is thus pushed above the audible range and it can be filtered out more smoothly with filters that produce less phase distortion.

Advanced laser pick-up assembly

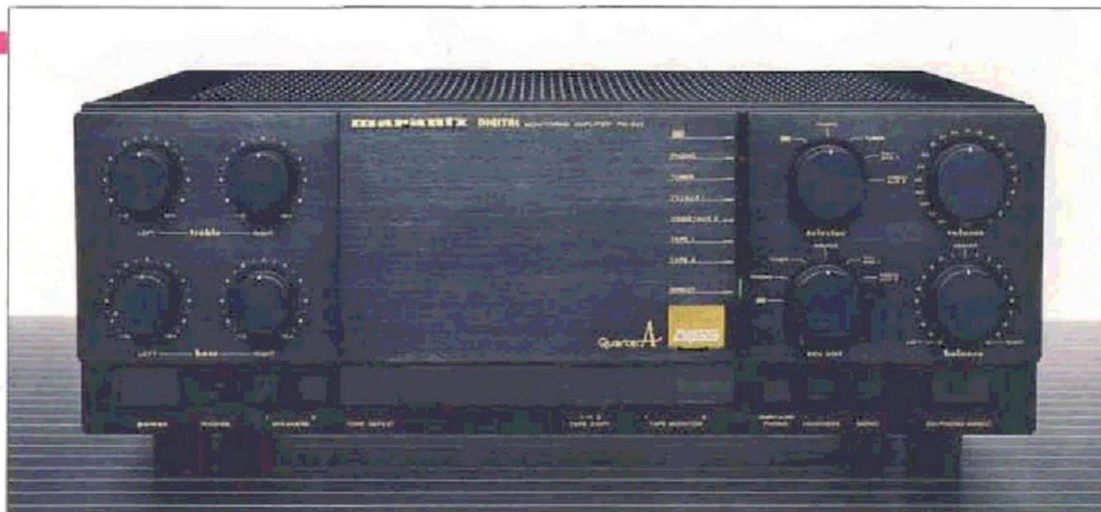
The Marantz CD players all use a lightweight laser on a swing arm which helps tracking off-center discs, reducing the work of the tracking servo. The optical assembly inside the laser pick-up uses less parts than most of our competitors thus improving reliability and concentrating on sound quality.

Examples of our technological know-how can also be extended to other products such as tuners for example. All Marantz tuners use the same high quality if filters for precise selectivity in today's crowded wave-band, to give superb audio performance, especially when compact disc is being used by the radio stations. Our cassette decks use heavy duty all-metal transport mechanisms for high reliability. Our heads are made of super hard metal alloy (SHMA) for long life, even with new metal tapes.

When going through the pages of this catalogue you will be looking at products which all have benefited from the dedication to sound excellence that we, at Marantz are proud of, and that we want to share with you.

PM64II

- ☐ 300 W IHF dynamic power per channel
- ☐ Quarter A and AVSS technology
- ☐ CD/phono direct and tone defeat
- ☐ Inputs for 2 tape decks with independent record selector
- ☐ Inputs for VCR/TV/tuner/CD/ and phono moving magnet or moving coil cartridges



- ☐ Separate left and right bass and treble tone controls
- ☐ Screw type connections for 2 pairs of speakers

The PM64II is a high quality integrated amplifier built around specially selected components and a copper plated chassis. Quarter A and AVSS ensure low distortion and cristal clear sound as in class A yet the high speed switching transistor delivers high power (up to 300 W) on demand.

PM45

- ☐ 160 W IHF dynamic power per channel
- ☐ CD/phono direct and tone defeat
- ☐ Inputs for 2 tape decks with separate monitor controls and tape copy switch
- ☐ Inputs for VCR/TV/tuner/CD/ and phono moving magnet or moving coil cartridges



- ☐ Screw type connections for 2 pairs of speakers

The PM45 offers effortless drive capability thanks to its overspecified power supply. It is ideally suited for the reproduction of wide dynamic compact disc range.

PM35

- ☐ 100 W IHF dynamic power per channel
- ☐ CD/phono direct and tone defeat
- ☐ Inputs for 2 tape decks with monitor control for tape 1
- ☐ Inputs for TV or VCR/tuner/CD/ and phono moving magnet or moving coil cartridges



- ☐ Screw type connections for 2 pairs of speakers

The PM35 has been successfully designed to provide audiophile sound at a budget price. It is capable of delivering an incredible amount of power into difficult speaker loads making it a sure winner in its category.

SD35

- ☐ Logic feather touch super silent mechanism
- ☐ Dolby B and Dolby C noise reduction
- ☐ Digital real time counter
- ☐ Auto tape selector
- ☐ Auto space rec. mute and quick rewind



- ☐ Super hard metal alloy heads
- ☐ Fast acting fluorescent meters

This cassette deck has been built to exacting specifications: high slew rate OP-amps, ceramic damped capacitors, high grade dolby circuit.

ST35

- ☐ High sensitivity fet front end
- ☐ Quartz synthesized tuning
- ☐ 16 FM and 8 AM presets
- ☐ Last station memory
- ☐ Memory back-up for 2 weeks



The IF filters used in this tuner give high sensitivity with precise phase linearity and low distortion.

CD65/CD75

- ☐ Twin 16 bit D/A converter with four times oversampling
- ☐ 99 Random track with fast access
- ☐ Random programming of any of 20 tracks
- ☐ 3 Speed cue and review with sound



- ☐ Time indicator for lapsed time and time left with immediate disc duration readout
- ☐ Variable volume headphone output
- ☐ Digital output

The CD65 and CD75 are similar in all ways except for the added convenience of an infra red remote control delivered with the CD75

EQ551

- ☐ 10 Frequency band per channel EQ action
- ☐ 10 Band fluorescent display
- ☐ Real time analysis of full spectrum
- ☐ Spectrum decay control
- ☐ Built-in pink noise generator



- ☐ Direct switch to make instant comparisons
- ☐ Microphone included

The EQ551 can analyse the acoustic character of any room and the equalized sound can be adjusted to compensate for those effects.

CD273

- ☐ Midi sized compact disc 320mm wide
- ☐ Twin 16 bit D/A converter with four times oversampling
- ☐ Random programming for any of 20 tracks
- ☐ 3 Speed cue and review with sound



- ☐ Time indicator for elapsed time and time left with immediate disc duration readout
- ☐ Digital output

The CD273 offers the audio performance of a full sized compact disc in the convenient new midi size which matches the Marantz midi systems in dimensions.

LD50DMS

- ☐ 2 Way bass reflex compact monitor
- ☐ 100W power handling capability
- ☐ Polypropylene woofer and mylar dome tweeter
- ☐ Exceptional bass extension
- ☐ High stereo imaging capability
- ☐ Above average sensitivity

Watching a film at the cinema can really spark off the imagination. The visual and sound effects, the music, the whole atmosphere makes



it a complete experience, which when viewed on video often does not come across.

LD20DMS

- ☐ 2 Way bass reflex compact monitor
- ☐ 60W power handling capability
- ☐ Polypropylene woofer and mylar dome tweeter
- ☐ Exceptional bass extension
- ☐ High stereo imaging capability
- ☐ Above average sensitivity

The Marantz dolby surround processor RV253 is designed to allow you to recapture that magic, by reproducing high fidelity music, dialogue and sound effects all around you, recreating the all-involving atmosphere of the cinema. Through features like time delay, spacial stereo and matrix effects, our RV253 unit will transform the sound of a mono TV or video-recorder into a breathtaking experience. The decoder has a variable time delay control to enable you to adjust the amount of "ambiance" you wish to have. It incorporates its own power amplifier (25W EIAJ) to drive the rear speakers.

Since the rear sounds do not have to be as full range as the front ones, we have developed a special flat speaker model LS153 it is well matched to the amplifier inside the dolby decoder. It almost does not take any space in your living quarter. The LS153 can easily be hung on a wall or set up on any bookshelf thanks to the special stand included with the unit.

The HP1BD surround headphone offers the same effects directly from your amplifiers headphone plug.

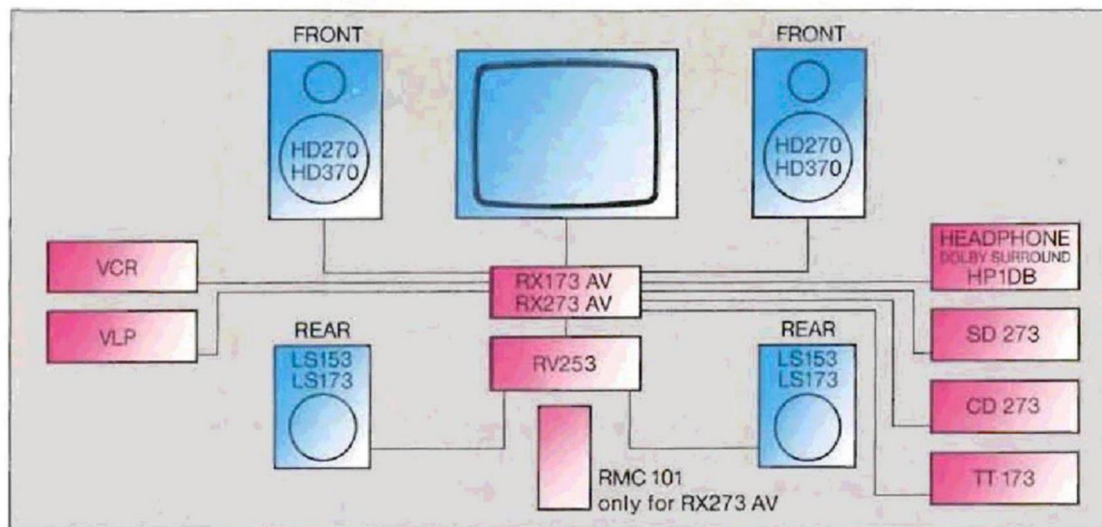
The RV253 and LS153's can easily be connected to any existing hi-fi system (see above connection diagram) but they have specially been designed to match with our midi systems such as the RX273 shown here below.

MX273CD

RX273

Tuner amplifier combination

- ☐ 60W per channel



- ☐ Digital tuner with 8 FM/8 AM presets with auto-scan and memory back-up
- ☐ 5 Band graphic equalizer
- ☐ Electronic volume control
- ☐ Connections for two speaker pairs
- ☐ RMC101 remote control for volume, presets, scan and muting delivered with the set

TT173

Fully automatic compact turntable

CD273

Midi sized compact disc 320mm wide

- ☐ Midi sized compact disc 320mm wide
- ☐ Twin 16 bit D/A converter with four times oversampling
- ☐ Random programming for any of 20 tracks
- ☐ 3 Speed cue and review with sound

SD273

Twin cassette deck

- ☐ High speed dubbing capability
- ☐ Dolby B noise reduction system
- ☐ Quick music search
- ☐ Synchronized one touch dubbing and serial play

HD270

Compact 2-way speaker

60W power handling capacity, flat membrane for distortion free reproduction.

MS1800

TT165

Semi-automatic belt drive turntable with plug-in type cartridge.

TA52

180W IHF dynamic power amplifier with remote control for volume-presets-station scan-muting. The unit has also a 7 band EQ and connections for 2 speaker pairs. The tuner is quartz synthesized with 16 FM and 8 AM presets.

SD275

Twin cassette deck with Dolby B/C nr, high speed dubbing and autotape selector, double time replay.



CD56

Compact disc player with 16 bit D/A converter and four times oversampling. Random access programming for 20 tracks, play time and remaining time indicator, auto repeat, cue & review with sound.

HD480

High definition 3 way speaker. 100W peak handling capacity, 91dB sensitivity, frequency response: 50Hz to 20kHz.

MS800

TT165

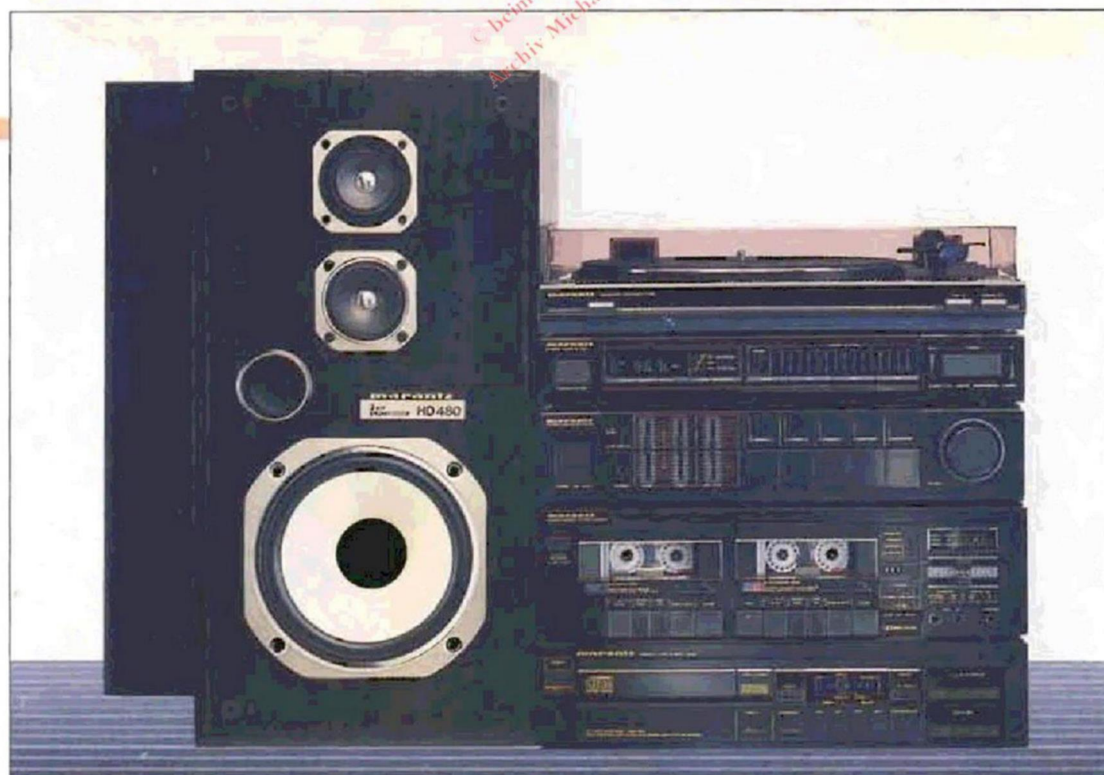
Semi-automatic belt drive turntable with plug-in type cartridge

ST26

Quartz synthesized digital tuner with 8 FM and 8 AM presets

PM26

80W IHF dynamic power amplifier with discrete power transistors and tone defeat. Special CD input.



SD255

Twin cassette deck with Dolby B/C NR, high speed dubbing and auto tape selector.

CD56

Compact disc player with 16 bit D/A converter and four times oversampling. Random access programming for 20 tracks, play time and remaining time indicator, auto repeat, cue & review with sound.

HD480

High definition 3 way speaker. 100W peak handling capacity, 91dB sensitivity, frequency response: 50Hz to 20kHz.

COMPACT DISC PLAYERS

	Units	CD 273	CD 56	CD 65	CD 75
Frequency range (+/- 0.01 dB)	Hz-kHz	2-20	2-20	2-20	2-20
Dynamic range	dB	> 96	> 96	> 96	> 96
Signal to noise ratio	dB	> 102	> 102	> 102	> 102
Channel separation (1 kHz)		> 100	> 100	> 100	> 100
T.H.D. (incl. noise)	%	0.0015	0.0015	0.0015	0.0015
I.M. distortion (max. out)	dB	> -90	> -90	> -90	> -90
Phase linearity	Deg.	+/- 0.2	+/- 0.2	+/- 0.2	+/- 0.2
Wow and flutter		quartz precision	quartz precision	quartz precision	quartz precision
D/A converter spec.		2 x 16 BIT	2 x 16 BIT	2 x 16 BIT	2 x 16 BIT
Audio output level (at msb)	V/rms	2	2	2	2
Headphone output		-	-	variable	variable
Digital output		1 output	1 output	1 output	1 output
Oversampling x4		yes	yes	yes	yes
Dimensions (W x H x D)	mm	320x90x300	420x100x300	420x90x300	420x90x300
Power supply N version		220 V	220 V	220 V	220 V
E version		110 to 240 V	N.A.	110 to 240 V	110 to 240 V

AMPLIFIERS

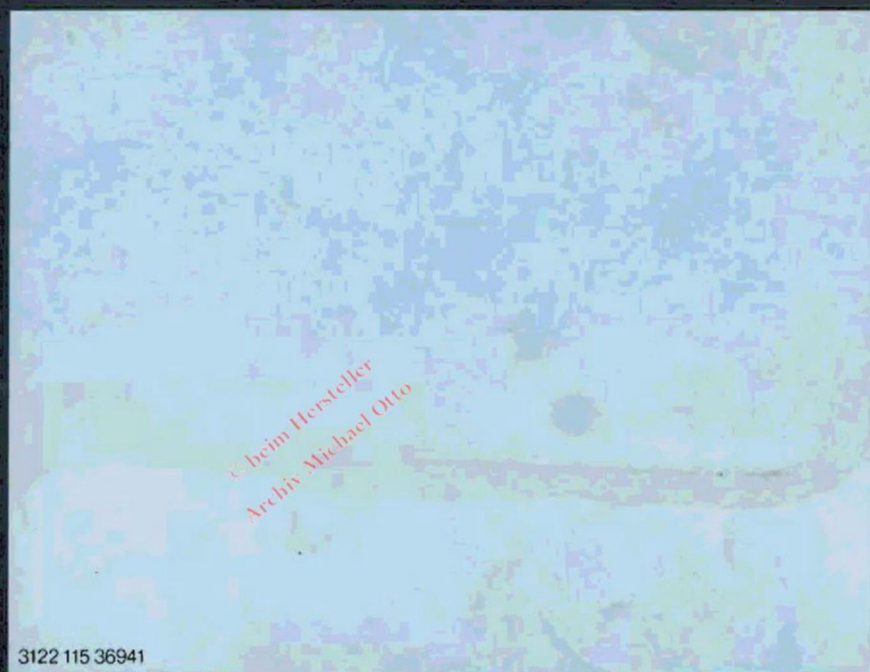
	Units	PM 26	PM 35	PM 45	PM 64II
Power output					
DIN 8 Ohms	W	40	40	50	115
DIN 4 Ohms	W	40	50	60	160
IHF dynamic power 2 Ohms	W	80	100	160	300
T.H.D. at 8 Ohm rated output (DIN)	%	0.05	0.03	0.02	0.02
Damping factor		60	80	100	100
MM Cartridge Input					
Frequency response (IEC RIAA)	dB	+/- 0.5	+/- 0.5	+/- 0.5	+/- 0.5
Signal to noise ratio	dB	75	86	86	86
CD/Aux/TV/Video Inputs					
Signal to noise ratio	dB	91	91	96	96
Frequency response	Hz-kHz	10-50	10-50	15-70 +/- 1 dB	10-70 +/- 1 dB
Output and Impedance					
Tape	mV/Ohms	550/150	550/150	465/220	465/220
Dimensions (W x H x D)	mm	416x80x200	420x100x260	416x118x334	416x146x334
Net weight	kg	4.2	8	8.6	12.5
Power supply N version		220/240 V	220/240 V	220/240 V	220/240 V
E version		110 to 240 V	110 to 240 V	110 to 240 V	110 to 240 V

CASSETTE DECKS

	Units	SD 273	SD255/SD275	SD 35
Motor(s) and type		2 DC	2 DC	2 DC
Number of heads		2	2	2
Frequency response WO. Dolby				
Normal tape	Hz-kHz	30-15	30-15	20-17
Cr02	Hz-kHz	30-17	30-17	20-18
Metal	Hz-kHz	-	30-18	20-19
Signal to noise ratio (Cr02) 1 kHz				
With dolby B/C	dB	65/70	65/70	65/74
Wow and flutter				
WRMS	%	0.09	0.08	0.06
Outputs				
Line level/impedance	mV/kOhms	500/2	500/2	500/3.3
Input level at 0 VU				
Line sensitivity/impedance	mV/kOhms	70/40	70/40	70/40
Dimensions (W x H x D)	mm	320x79x315	420x110x260	420x100x260
Net weight	kg	3.8	4.7	4.4
Power supply N version		220/240 V	220/240 V	220/240 V
E version		110 to 240 V	110 to 240 V	110 to 240 V

SPEAKERS

	Units	HD 270	LD 20 DMS	LD 50 DMS	HD 480	LS 153
System		2 Way	2 Way	2 Way	3 Way	1 Way
Maximum handling power	W	60	80	100	100	30
Sensitivity (1 kHz/1 W/1 m)	dB	89	88	88	91	87
Frequency response	Hz-kHz	60-20	40-60	35-30	50-20	120-8
Impedance	Ohms	8	8	8	8	6
Transducers: woofer	cm	16	160	260	200	-
midrange	cm	-	-	-	70	100
tweeter	cm	7	19	19	19	-
Dimensions (W x H x D)	mm	230x364x190	230x365x260	272x414x280	272x414x280	182x257x49



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SPECIAL COMPONENTS

	Units	RV 253
Rated output (DIN) power	W	20
Total harmonic distortion (8 Ohms)	%	0.3
Frequency response	Hz-kHz	40-20
Signal to noise ratio (A weighted)	dB	90
Input impedance (line in)	kOhm	85
Output impedance (line out)	kOhm	1
System	n	Dolby surround
Power supply N version		220/240 V
E version		110 to 240 V
Dimensions (W x H x D)	mm	320x55x260

EQUALIZER

	Units	EQ 551
T.H.D. (8 Ohms 20 Hz-20 kHz)	%	0.005
Rated output	V	1
Frequency response +/- 1 dB	Hz-kHz	10-50
Signal to noise ratio	dB	110
Input impedance (line in)	kOhm	47
Output impedance (line out)	kOhm	1
EQ action for each channel	Hz	31.5, 63, 125, 250, 500, 1K, 2K, 4K, 8K, 16K +/- 12 dB
Power supply N version		220/240 V
E version		110 to 240 V
Dimensions (W x H x D)	mm	420x73x260

TUNERS

	Units	ST 26	ST 35
FM Stage 87.5-108 MHz			
Sensitivity			
DIN mono (s/n 26 dB 75 Ohm)	micro V	1	0.9
DIN stereo (s/n 26 dB 75 Ohm)	micro V	30	30
Selectivity adjacent channel 98 MHz	dB	60	65
S/N DIN Weighted mono	dB	73	70
S/N DIN Weighted stereo	dB	68	67
THD mono	%	0.2	0.1
stereo	%	0.5	0.2
Frequency response (30 Hz-15 kHz)	dB	+ 0.5/- 2	+ 0.5/- 2
Stereo separation	dB	45	45
MW Stage (531-1602 kHz)			
Sensitivity (s/n 20 dB 30% mod. 1 MHz)	micro V	500	400
Selectivity 1 MHz + 9 kHz	dB	30	30
Signal to noise ratio at 1 MHz	dB	50	45
Dimensions (W x H x D)	mm	416 x 60 x 208	420 x 60 x 260
Net weight	kg	3	6
Power supply N version		220/240 V	220/240 V
E version		110 to 240 V	110 to 240 V

TUNER-AMPLIFIERS

	Units	RX 273	TA 52
Tuner Section			
FM Stage (87.5-108 MHz)			
Sensitivity DIN (s/n 26 dB) mono	microV	1.2	1.2
Signal to noise ratio DIN mono	dB	70	70
MW Stage (531-1602 kHz)			
Sensitivity (s/n 20 dB 30% mod. 1 MHz)	microV	800	800
Amplifier Section			
EIAJ power at 6 Ohms	W	55	100
Dynamic power IHF 2 Ohms	W	80	180
Total harmonic distortion	%	0.1	0.05
Dimensions (W x H x D)	mm	320x125x260	420x184x260
Net weight	kg	4.9	9.5
Power supply of system N version		220/240 V	220/240 V

TURNABLES

	Units	TT 165	TT 173
Drive system		belt	belt
Motor type		FG servo	FG servo
Wow and flutter WRMS	%	0.05	0.05
DIN	%	0.09	0.09
Rumble DIN	dB	75	70
Dimensions (W x H x D)	mm	416x100x337	320x79x315
Net weight	kg	3.9	2.3
Power supply N version		220/240 V	220/240 V
E version		110 to 240 V	110 to 240 V

SURROUND HEADPHONE HP1BD

Dynamic Open-Air Type		
44 mm Dynamic Speaker X2 (Front)		
33 mm Dynamic Speaker X2 (Rear)		
Impedance	100 Ohms	
Freq. response	20 Hz-20 kHz	
Sensitivity	100 dB	
Incl. 4.2 m cable & 1.4" plug		
Weight	270 gr/w. cord	

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