

Sony Hi-Fi

Systems Hi-Fi:

Music Centres: Hi-Fi Separates: Cassette Decks: Reel to Reel: Speakers



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DIRECT DRIVE

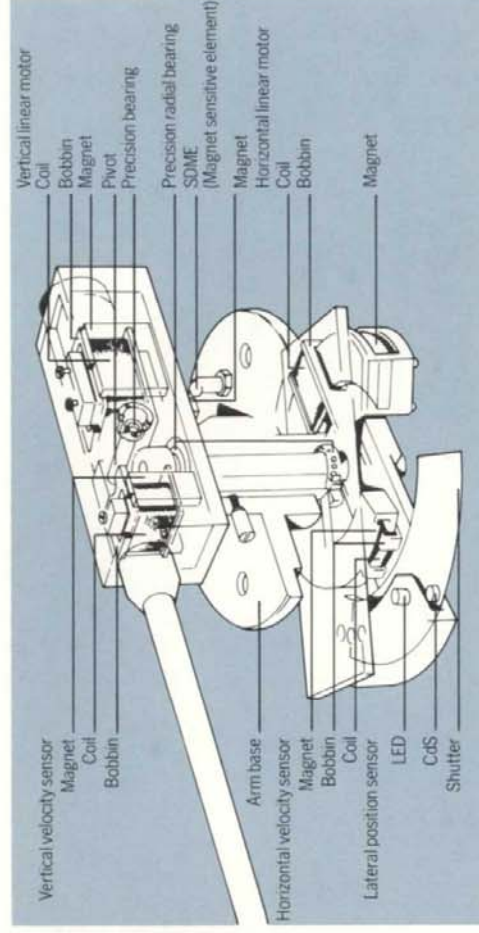
Sony direct drive turntables utilise BSL motors which are capable of rotating at 33% and 45 r.p.m. with high torque and accurate speed. This enables direct coupling of the turntable platter to the motor spindle eliminating belts and idlers thus reducing wow and flutter.

PULSE LOCKED POWER SUPPLY

The pulse locked power supply provides precise power regulation within the amplifier. This enables optimum performance under the most demanding musical passages.

PULSE WIDTH MODULATION

P.W.M. amplifiers use digital technology eliminating crossover problems inherent in conventional amplifiers whilst reducing the size and weight associated with high power output.

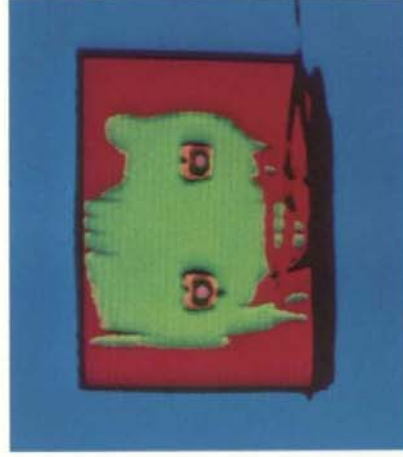


BIO-TRACER

The bio-tracer system incorporates electronic sensors coupled through a microprocessor and linked to linear motors, which, by monitoring the movement of the tonearm maintain a constant pickup force on the record groove. This reduces resonance and vibration to a degree that is exactly tailored to the characteristics of the cartridge and record being used.

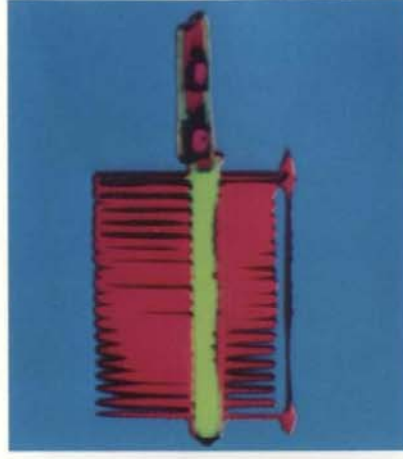
CRYSTAL LOCK

To ensure exact turntable speed the crystal lock system uses a precise quartz crystal as a reference to which speed is compared and adjusted as necessary.



THERMODYNAMIC COOLING

Thermodynamic cooling utilises a heat pipe which conducts heat almost 200 times faster than conventional heat sinks. This ensures that sensitive components are not adversely affected by temperature. The design of an amplifier can then be optimised for



maximum sound quality and not compromised by consideration of heat dissipation.



SYNTHESISED VHF

Synthesised VHF prevents station mistuning and drift by locking the desired signal to a precise quartz crystal reference.



ONE TOUCH PROGRAMME SENSOR

This unique system combines all the convenience of conventional presets with the advantage of a visual display of station location. Once programmed the desired station can be selected at the touch of a button.



RANDOM MUSIC SENSOR

R.M.S. enables playback of up to 15 tracks in any order selected by the user.

AUTOMATIC MUSIC SENSOR

A.M.S. enables automatic search and play of a desired passage by bypassing unwanted tracks.

DOLBY

When music is recorded and played back through the Dolby system, tape hiss is significantly reduced without affecting frequency response.



LED/LCD METERS

Conventional VU meters are unable to register peaks of short duration. Sony LED/LCD multi-segment meters enable simple accurate adjustment of the record level to obtain maximum performance from the tape.

FERRITE AND FERRITE HEAD

The F & F head provides up to 200 times longer life than conventional heads with improved tape to head contact and lower distortion.

SENDUST AND FERRITE HEAD

The S & F head combines the reliability and benefits of the F & F head with a considerably improved high frequency performance.

AUTO SPACE RECORD MUTE

When selected Auto space record mute creates a four second blank on the tape and then automatically pauses the machine, particularly convenient when building up a programme from a number of sources.

METAL TAPE

Metal tape is a new type of recording tape, which when used on a machine with metal tape facility, gives an improved frequency response and signal to noise ratio previously not obtainable on cassette recorders.



Music Centres

For those who want hi-fi sound without the inconvenience of having three or four separate units to be connected together, here is Sony's range of music centres.

There are six models for you to choose from. They share technical features usually found only on hi-fi separates with performance to match, and they have all been designed to be very straightforward to operate.

Each has a fully automatic turntable which is quick and easy to operate. One model, the HMK 9000, can even be operated using a cordless remote control unit.

Equally the cassette sections have been designed by Sony to give you the quality of performance that you require. The Dolby noise reduction system is incorporated in most of the machines. It minimises the tape hiss that so often used to detract from cassette performance, and to enable you to get the very best out of your tape, bias and equalisation controls have been fitted. For tape protection and added convenience an auto shut-off mechanism is standard.

On many of Sony's music centres you'll see a digital timer allowing you to set the machine to record programmes you might otherwise have missed.

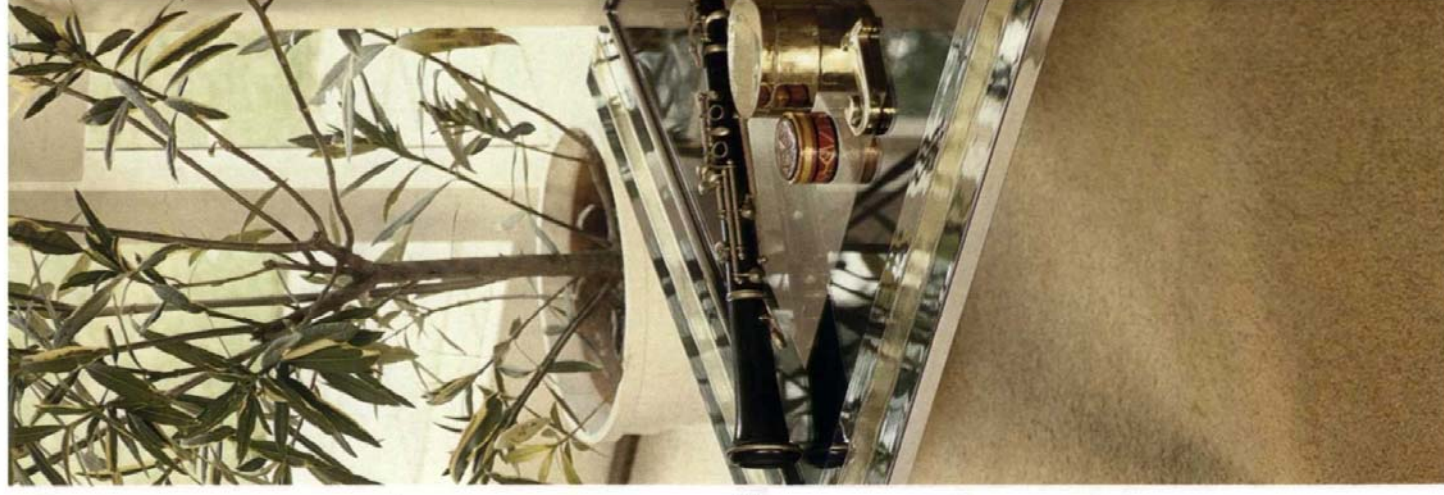
Whatever music centre you require you should be able to find one that meets your needs. They're all illustrated over the next few pages together with detailed descriptions of their own special features.

At the top of the range is the HMK 9000. As well as the features already described it has a number of features that really do qualify it as top-quality hi-fi. For instance, the LED recording meters. They display recording levels as vivid bars of light that give the most accurate and sensitive readings at every instant. Conventional VU meters cannot register sudden sharp peaks in recording levels. Sony's LED's respond instantaneously. The cassette section also features a metal tape position for the ultimate in recording quality when you use Sony's newly developed metal tape.

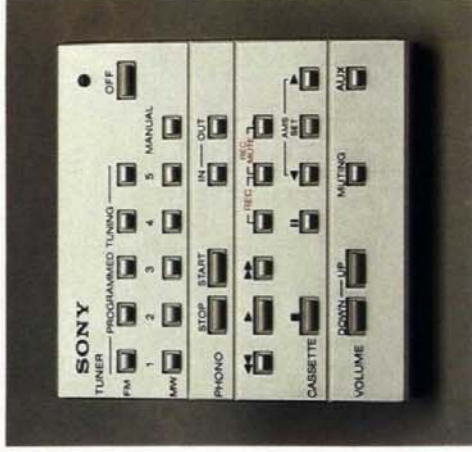
The turntable section is no less impressive. A direct drive unit that is powered by Sony's revolutionary new brushless and slotless DC motor. It's not only extremely accurate but also exceptionally reliable. Coupled with the quartz lock system, this ensures that the record platter rotates at constant speed and distortions like wow and flutter are kept to a minimum.

The remote "commander" controls any of the HMK 9000's functions by an invisible beam of infra-red light. It clips neatly into place on the front of the machine when not in use and automatically recharges, ready for the next commands.

The recommended speakers for HMK 9000 are SSE50 or SSE70.



The detachable and rechargeable remote commander illustrated right. Illustrated far right is the cassette unit of the HMK 9000.



HMK9000 (Illustrated below)



HMK 11/MUSIC CENTRE

35 watts per channel (music power).

VHF, MW, LW, SW.

Fully automatic belt drive turntable.

"Sony hiss noise reduction" system.

2 position tape select switch.

Soft eject.

Speakers and stereo microphone supplied.



HMK 33B/MUSIC CENTRE

50 watts per channel (music power).

VHF, MW, LW, SW.

Programme sensor on VHF and LW.

Fully automatic belt drive turntable.

Dolby NR system.

3 position tape select.

Soft eject.

Speakers and stereo microphone supplied.

Also available HMK 33 with silver finish front panel.



HMK 80B/MUSIC CENTRE

35 watts rms per channel (1 kHz, 8 ohms).

VHF, MW, LW, SW.

5 preset VHF stations.

Fully automatic direct drive turntable.

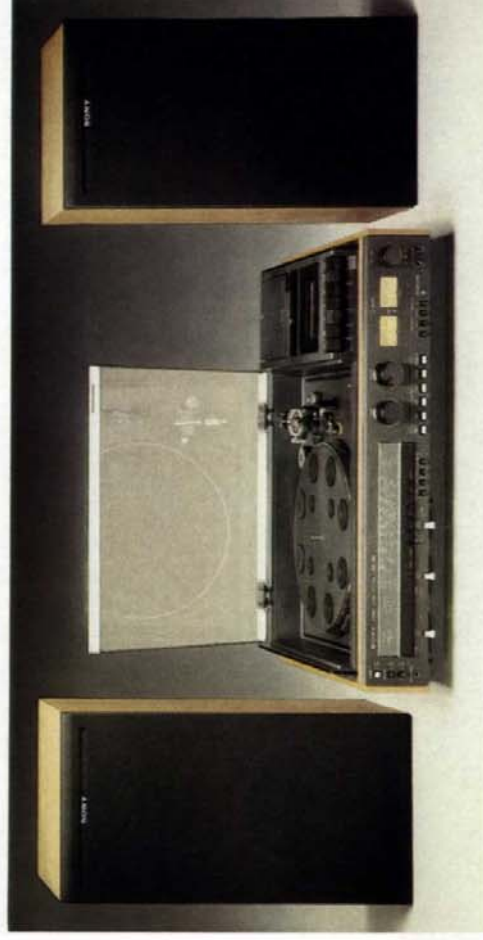
Dolby NR system.

3 position tape switch.

Stereo headphones and microphone supplied.

Also available HMK 80 with silver finish front panel.

Recommended speakers for HMK 80/80B SS 85.



HMK 44/MUSIC CENTRE (Right)

25 watts rms per channel (1 kHz, 8ohms).

VHF, MW, LW.

6 Preset VHF stations.

Fully automatic belt drive turntable.

Dolby NR system.

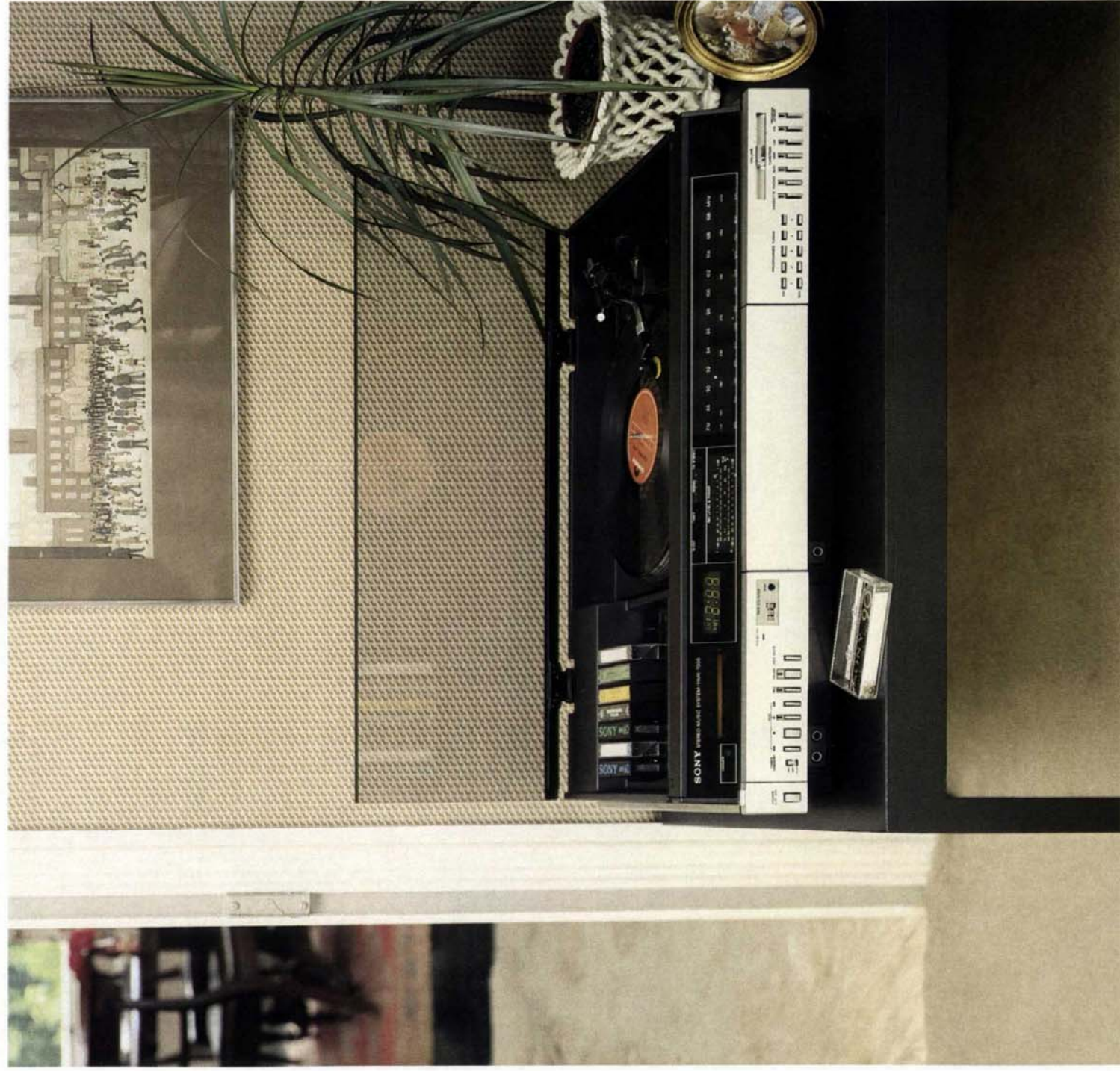
Separate 3 position bias and equalisation.

Digital clock for timer recording.

Recommended speakers SS E30(W).



HMK 7000/MUSIC CENTRE (Below)
30 watts per channel (20 Hz–20 kHz, 8 ohms).
3 waveband radio VHF, MW, LW.
One touch programme sensors on VHF and MW. Programme sensor cursors illuminate when "on station".
Fully automatic direct drive turntable.
Dolby NR system.
Separate 4 position bias and equalisation including metal tape position.
Twin fast reacting LED display recording meters.
Digital clock for timer recording.
Recommended speakers: SSE50 or SSE70.



Systems Hi-fi

With Sony Systems hi-fi there's no need to spend hours picking and choosing between a bewildering variety of separate pieces. Sony have done the job for you, combining amplifiers, tuners or receivers, turntables, cassette decks and speaker systems that fit perfectly together.

Sony's ten new systems put together performance-matched high quality hi-fi models that meet your needs. Each one has up-to-the minute features that give the best quality reproduction as well as ease of operation to enable you to get the best out of your system for your money.

Take the LED peak Programme Meters. They clearly display power output and recording levels that give you accurate and sensitive readings at every instant of operation.

Sony also create this 'light' touch when it comes to the system's controls.

Most units feature the one-touch programme sensor that allows you to select up to ten stations at the touch of a button.

Naturally all the cassette decks featured in the range use the Dolby noise reduction system to minimise tape hiss, and to enable you to get the best out of your tape, bias and equalisation controls are provided.

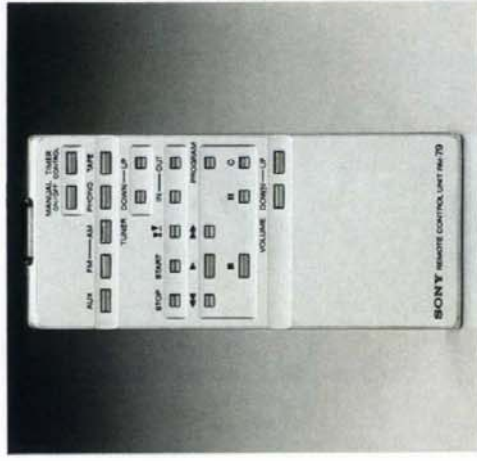
Sony have developed a revolutionary new type of motor to power both the cassette decks and turntables. As you can imagine variations in speed cause distortions in the sound produced, technically known as wow and flutter. The new brushless and slotless motor together with servo speed sensing mechanisms ensures constant speed, reducing these distortions to a minimum.

You'll see over the next few pages that Sony have put together a really wide range of hi-fi systems so that whatever you require, you should be able to find the system that fits your needs.

The Z600 (illustrated opposite) enables you to choose your programme from the comfort of your armchair, using the Sony infra-red remote "Commander." Listen to your favourite record or radio station, or playback cassettes by the simple touch of a button, it couldn't be easier.

For the more technically minded, the direct drive turntable is fully automatic with crystal lock employing an electronically controlled tone arm. The tuner has full FM synthesis with digital and analog frequency display, whilst the cassette deck has feather touch controls with LED level indicators. All feed into the amplifier giving 60 r.m.s./channel, again using LED's for power output display. The equipment is housed in a vertical, walnut finished cabinet with fitted glass door.





SYSTEM Z 600 (Below)

PS636 Full automatic, crystal lock, direct drive turntable with electric controlled tone arm.

TA636 60 watts output per channel. LED indicators.

ST636 Full synthesised FM with digital and analog frequency identification.

TCU60 Dolby cassette deck with feather touch operation and 16 segment LED record level indicators.

SU636 Purpose built rack with vertical 12" storage and smoked glass door.

SS.E50 Recommended 3 way loudspeakers.

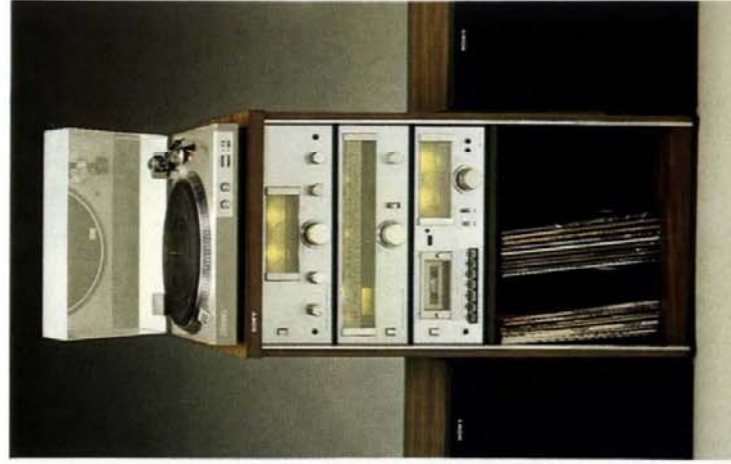
PT79 Timer.

RM79 Remote commander. (Illustrated left.)



SYSTEM Z 200

PS212A	Semi automatic direct drive turntable with cartridge.
TA212A	20W x 2 stereo amplifier with twin power meters.
ST212AL	4 waveband tuner.
TCU2	Dolby cassette deck, 3 position tape selector, auto shut off.
SU214	Purpose built rack with vertical 12" disc storage.
SSE20	Recommended two way loudspeakers.



SYSTEM Z 250

PS333	Fully automatic, direct drive turntable with cartridge.
TA333	25W x 2 stereo amplifier with LED power meters.
ST333L	4 waveband tuner with one touch programme sensors.
TCU30	Dolby cassette deck with 16 segment LED record meters.
SU434	Purpose built rack with vertical 12" disc storage.
SSE30	Recommended 2 way loudspeakers.
PT59	Optional timer.

SYSTEM Z 400

PS333	Fully automatic direct drive turntable with cartridge.
TA535	40W x 2 amplifier with two stage LED power meter.
ST333L	4 waveband tuner with one touch programme sensors.
TCU30	Dolby cassette deck with 16 segment LED record meters.
SU434	Purpose built rack with vertical 12" disc storage.
SSE50	Recommended 3 way loudspeakers.
PT59	Optional timer.

SYSTEM A

PST15	Semi automatic direct drive turntable with cartridge.
TA F30	30W x 2 slimline amplifier with LED power meters.
STA30L	Slimline 3 waveband tuner with 5 segment LED signal level meter.
TC K35	Dolby cassette deck with auto play mechanism.
SSE30	Recommended 2 way loudspeakers.

SYSTEMSA, B & C (illustrated right)

SUL10/15 Choice of vertical or horizontal racks: SUL10 vertical rack, SUL15 horizontal cabinet.



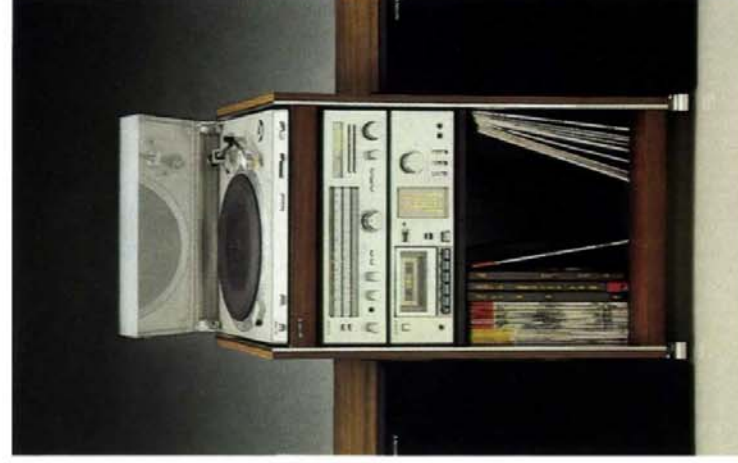
SYSTEM ZR 200

PS212A	Semi automatic direct drive turntable with cartridge.
STR232L	20W x 2 stereo receiver with 3 wavebands.
TCU2	Dolby cassette deck with 3 position tape selector, auto shut off.
SU213	Purpose built rack with vertical 12" disc storage.
SSE20	Recommended two way loudspeakers.



SYSTEM ZR 250

PS333	Fully automatic, direct drive turntable with cartridge.
STR333L	25W x 2 stereo receiver with 4 wavebands and one touch programme sensors.
TCU30	Dolby cassette deck with 16 segment record meters.
SU333	Purpose built rack with vertical disc storage.
SSE30	Recommended 2 way loudspeakers.
PT59	Optional timer (not illustrated).



SYSTEM ZR 400

PS333	Fully automatic direct drive turntable with cartridge.
STR434L	40W x 2 stereo receiver 4 wavebands with digital frequency readout and one touch programme sensors.
TCU30	Dolby cassette deck with 16 segment LED record meters.
SU333	Purpose built rack with vertical disc storage.
SSE50	Recommended 3 way loudspeakers.
PT59	Optional timer (not illustrated).



SYSTEM B

PST15	Semi automatic direct drive turntable with cartridge.
TAF40	50W x 2 slimline amplifier with LED power meters.
STA30L	Slimline 3 waveband tuner with 5 segment LED signal level meter.
TCK35	Dolby cassette deck with auto play.
SSE50	Recommended 3 way loudspeakers.



SYSTEM C

PSX35	Fully automatic, direct drive crystal lock turntable with cartridge and with full front panel operation.
TAF40	50W x 2 slimline amplifier with LED power meters.
STJ60	Slimline VHF tuner with 8 electronic pre-sets, crystal lock and memory scan.
TCK45	Dolby cassette deck with 16 segment LED record level meters and auto play facility.
SSE50	Recommended 3 way loudspeakers.



Direct Drive Turntables

For most people a turntable is the key component of a hi-fi system. So you need to be sure that the turntable that you buy does not compromise the quality of the rest of your hi-fi.

There are two important aspects to turntable quality. The first is speed stability. How constant is the rotation speed of the record platter? Does the speed vary and create distortion in the sound produced, distortion known as 'wow and flutter'? The second is whether the turntable generates any unnecessary noise that can spoil your enjoyment of your hi-fi system. The major cause of this is the mechanical vibration of the motor that can produce a low pitched sound called 'rumble'. Sony turntables have been designed with these two requirements in mind to give you the quality that Sony aim for with all their hi-fi equipment.

Each turntable in the Sony range is powered by an extremely accurate and reliable direct drive motor. By mounting the record platter on the end of the motor shaft, the platter is directly driven. Contrast this with other systems which use high speed motors harnessed to the platter by a belt or idler. Because a direct drive motor rotates much more slowly, it produces less vibration, hence less rumble.

What's more, because the motor directly drives the platter, speed variations can be kept to a minimum. For the technical, our specification tables at the back of this brochure will bear witness to this.

Not just content with the benefits of direct drive, Sony have taken hi-fi standards one stage further. Sony engineers have developed a revolutionary new motor – the brushless and slotless (BSL) DC servo motor. It rotates very smoothly, and with few mechanical parts, it's also exceptionally reliable.

Constant speed is maintained by a servo speed sensing mechanism that electronically detects and corrects any speed variations. Many turntables utilise the crystal lock system to provide the servo with a stable unvarying reference. This expertise gives you a turntable of exceptional quality, whatever choice you make from the Sony range.

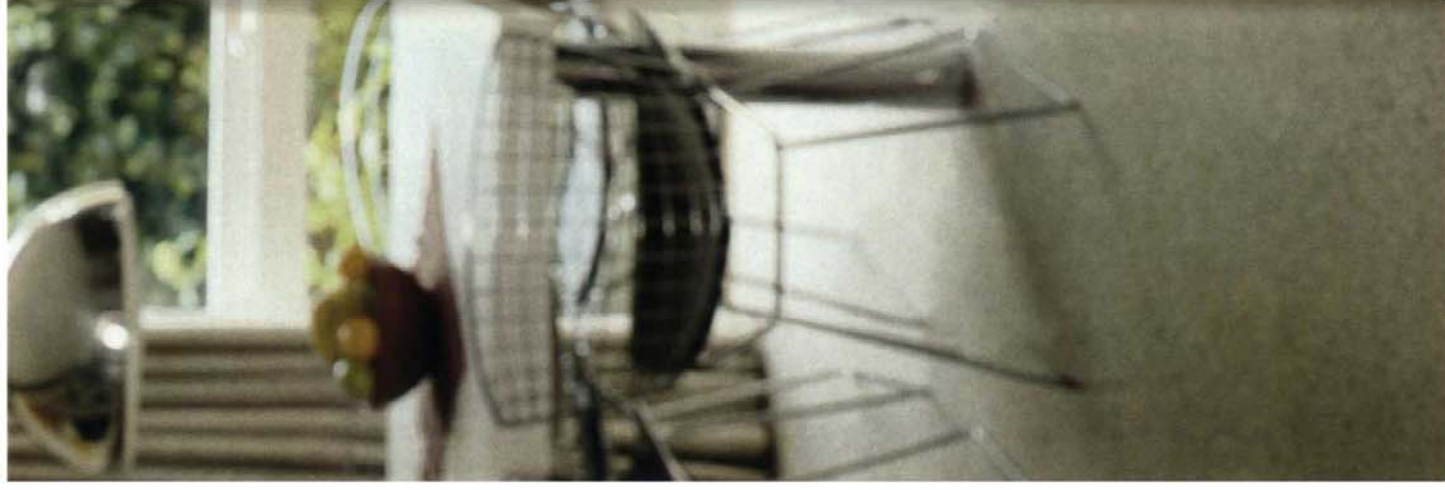
Quality that is married to the highest standards of convenience.

For example all have controls positioned so they can be operated with the transparent dust cover closed.

In every way when you buy a Sony turntable you can be confident that your hi-fi system will appreciate its quality and so will you.

The very top of the range the PS B80 (illustrated opposite) is one of the most technically sophisticated turntables in the world today. It features a micro-processor controlled arm. The internal computer will automatically maintain the bias, and tracking force. It also senses the size of the record and has a memory that allows you to select the passage you want to hear and will repeat if required.

PS B80 (Illustrated below)





PS T15/DIRECT DRIVE TURNTABLE

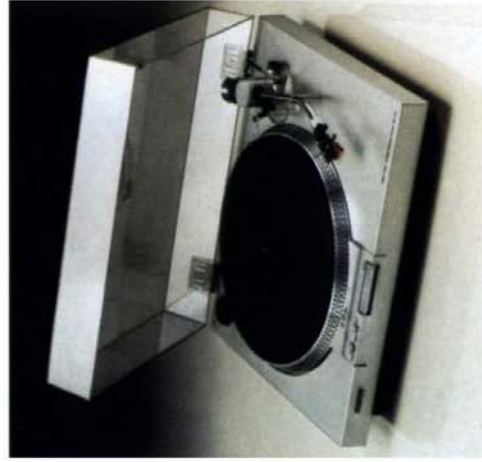
Semi-automatic direct drive turntable with linear BSL motor for stable speed, low wow and flutter and a high S/N ratio.

Magnedisc servo system for accurate speed sensing.

Easy to use semi-automatic system: the reject button can be used with the dust cover closed.

Aluminium die-cast platter with illuminated stroboscope.

Cartridge supplied.



PS 212A/DIRECT DRIVE TURNTABLE

Semi-automatic direct drive turntable with a BSL motor.

Magnedisc servo system for accurate speed sensing.

Controls can be operated with the dust cover closed.

Illuminated stroboscope to check turntable speed.

Pitch control.

Cartridge supplied.



PS 333/DIRECT DRIVE TURNTABLE

Full automatic direct drive turntable with a BSL motor.

Magnedisc servo system for accurate speed sensing.

Controls can be operated with the dust cover closed.

Universal static balance type tonearm with bias adjustment.

Illuminated stroboscope to check turntable speed.

Cartridge supplied.



PS X40/DIRECT DRIVE TURNTABLE

Fully automatic crystal lock direct drive turntable.

High torque BSL, DC servo motor ensures low wow and flutter.

All major functions can be operated with the dust cover closed.

Recommended cartridge XL45 (not supplied).



PS X60/DIRECT DRIVE TURNTABLE

Fully automatic crystal lock direct drive turntable.

High torque (1 kg. c.m.) BSL, DC servo motor ensures low wow and flutter.

Precision arm with adjustable height.

Ultra rigid IEC head shell connector.

Recommended cartridges XL45, XL55, XL55-PRO (not supplied).



PS X70/DIRECT DRIVE TURNTABLE

Fully automatic crystal lock direct drive turntable.

The whole system can be operated manually from front control buttons.

Long span tonearm driven by its own FG servo motor for automatic operation.

Automatic muting system.

Recommended cartridges XL45, XL55, XL55-PRO (not supplied).



PS X35/DIRECT DRIVE TURNTABLE

Full automatic direct drive turntable with a BSL linear motor.

The crystal lock system in conjunction with a specially developed servo IC ensures stable and accurate speed, as well as a high degree of reliability.

The accurate speed sensing provided by the magnetic servo system ensures that the crystal lock system operates at its full potential.

High torque (500 gm/cm) BSL, DC servo controlled motor which ensures low wow and flutter, yet enables the turntable to reach full speed within half a revolution.

All major functions, such as power on/off,

start/stop, repeat, speed changing and arm raising or lowering can be operated with the dust cover closed.

Cartridge supplied.

LED speed display.



Amplifiers, Tuners, Receivers and Cassievers

The heart of your hi-fi system is the amplifier. Quality of sound reproduction will depend directly upon the amplifier you choose.

Whatever amplifier you need to complement your other hi-fi components you should be able to find one in the following section that will meet your requirements.

Whether it be a TA 212A or the powerful and sophisticated TA F40 – (illustrated on facing page), they will give you the benefits of Sony Technology. Benefits that give Sony amplifiers a quality and reputation second to none.

Throughout the new Sony range of tuners and receivers you'll find many features that used to be reserved for the most expensive models in the range.

All have been developed with two thoughts in mind; high performance coupled with the greatest convenience of operation.

Some features you'll find on many of the models in the range are synthesised tuning, to lock onto the station you want to hear, and digital frequency readout, displaying precise station frequency. You'll see both on the ST J60 illustrated opposite.

Some models incorporate one-touch programme sensors to allow you to select your favourite station at the touch of a button.

Sony Cassievers use the same technology and features you'll find on Sony amplifiers, tuners and cassette decks but combined in one convenient package.



ST J60, TA F40

Precise Compo

New technological advances in electronics have made possible Sony's Precise Compo Hi-Fi.

Hi-Fi that is not only technically superb but also uses the latest techniques of miniaturisation.

Sony call it Human Engineering. Real hi-fi that can fit easily and unobtrusively into your home.

Extensive use of microcomponents has given Sony the ability to develop the models you see illustrated on the facing page. Each unit, the turntable, the amplifier and the tuner, is far smaller than you might have expected but this miniaturisation does not mean that Sony have compromised on any aspect, far from it. Each has the most sophisticated features with comparable performance and specification.

The Precise Compo tuner, the ST P7J, features synthesised tuning for the most accurate reception and has 8 electronic FM preselected positions that enable you to find your favourite stations at the touch of a button. A non volatile memory hold all stations even when the mains is disconnected.

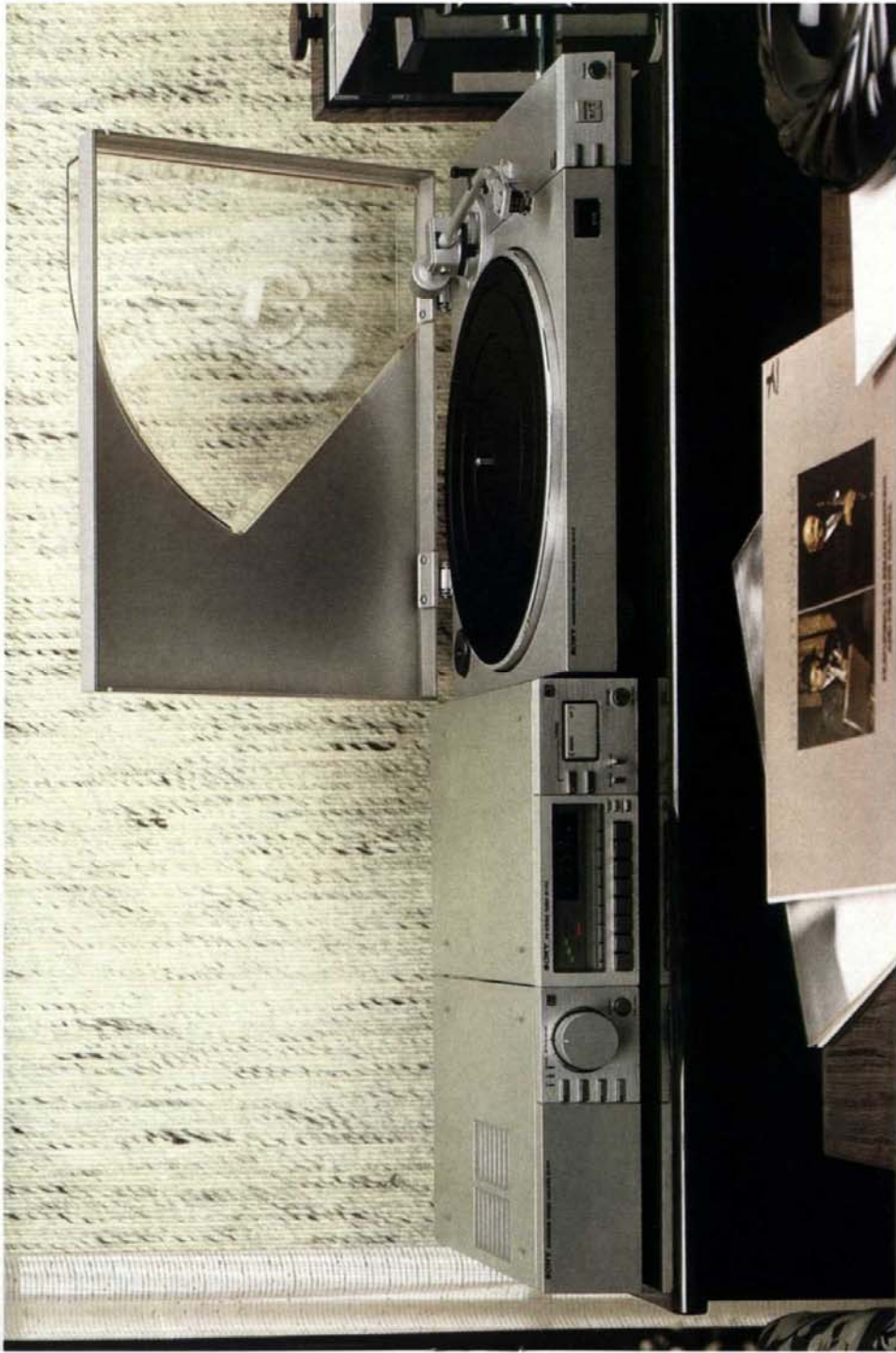
The amplifier, the TA P7F, though small, delivers a surprising 50 watts per channel. Credit for this is largely due to its fast reacting thermodynamic cooling system. Equally it can cope with sudden loud passages of music, the Pulse Locked Power Supply takes care of that.

The turntable incorporates quartz locked, direct drive technology powered by Sony's new BSL motor with the magnedisc servo system.

So, all in all, Sony's Precise Compo may be small in size but its big in every way.



TAP7F, STP7J and PS P7X



TA 212A/AMPLIFIER

20 watts per channel (1 kHz).

Twin power meters, calibrated in rms watts, to indicate the power level supplied to each speaker.

Built-in loudness control to boost high and low frequencies for listening at low levels.

Headphone socket.

ST 212AL/TUNER

Four wavebands: VHF, MW, LW, SW.

Large, wide dial scale for easy tuning.

Indicator lights for each of the four wavebands plus stereo tuning indicator light.

Muting switch to remove inter-station noise on VHF.

Signal strength meter for accurate tuning.

TA 333/AMPLIFIER

25 watts per channel (20 Hz-20 kHz).

LED power display which shows the level of the musical source, and responds instantaneously to changes in output level.

Microphone mixing facility.

Connections for two pairs of speakers.

Two pairs of speakers can be used.

ST 333L/TUNER

Four wavebands: VHF, MW, LW, SW.

One touch programme sensor. A new system featuring the convenience of pre-sets with the advantages of a dial scale

Five segment LED signal strength indicator.

Long-span dial scale.

Smooth tuning action.

TA F30/AMPLIFIER

30 watts per channel (20 Hz-20 kHz).

Power level indication incorporating six LEDs for each channel which register the power level supplied to each speaker.

Eleven step tone controls, one each for bass and treble, incorporating centre defeat for a flat response.

STA30L/TUNER

Three wavebands: VHF, MW, LW.

Five segment LED signal strength indicator.

Acute servo lock for stable and accurate VHF tuning. The STA.30L has the ability to "lock" on to a station, a feature previously found only in expensive synthesised tuners.

Stereo indicator.

Smooth tuning action.

TA 535/AMPLIFIER

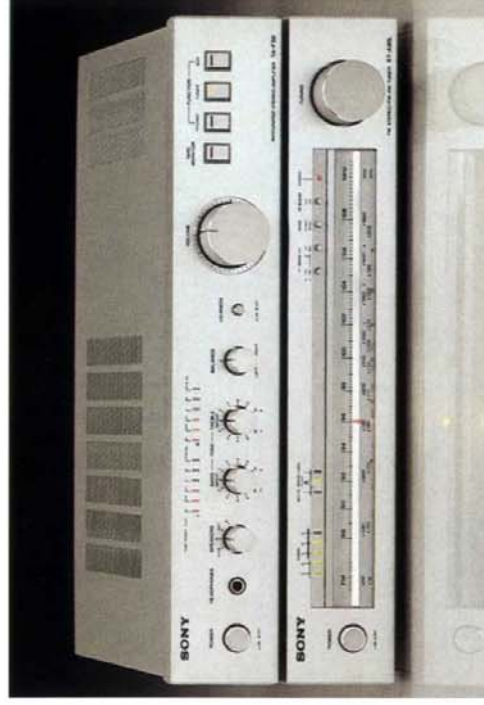
40 watts per channel (20Hz-20kHz).

LED power indication.

Power level is indicated in 2 stages: either from 0-16 watts or from 0-160 watts.

Soft touch illuminated function switches.

Muting switch.



TA F60/AMPLIFIER

75 watts per channel (20Hz-20kHz).

Pulse power supply.

Thermodynamic cooling.

Built-in head amp.

13 segment LED peak meter.

TA F70/INTEGRATEDAMPLIFIER

90 watts per channel (20Hz-20kHz).

Pulse power supply.

Preamp and power amp sections are internally separated.

Thermodynamic cooling.





TA E86B/ PRE-AMPLIFIER

Built-in head amplifier for use with moving coil cartridges.

DC equaliser and flat amplifiers.

Completely independent circuitry for left and right channels utilising specially developed ultra-high frequency transistors.

TA N86B/ POWERAMPLIFIER

80 watts per channel class B; 18 watts class A; 120 watts mono.

PLPS power supply for optimum performance under all signal conditions.

Full DC amp construction.



TA E7B/ PRE-AMPLIFIER

Distortion (T.H.D. and I.M.) below 0.003%.

Built-in head amplifier for moving coil cartridges.

Adjustable meter characteristics.

Short signal path for optimum performance.

ST A7B/ TUNER

Synthesized FM stereo tuner.

Combines the advantages of digital stability with analogue performance. Adjustable selectivity.

TA N7B/ POWERAMPLIFIER

100 watts per channel (20 Hz–20 kHz).

High power V-FET output transistors.

Constructed as two mono amplifiers in one package.

Two massive toroidal transformers.

Rugged professional construction.



TA E88B/ PRE-AMPLIFIER

Consists of two separate mono pre-amplifiers housed in one case.

Distortion (T.H.D. and I.M.) below 0.002%.

Slim line professional chassis construction.

TA N88B/ POWERAMPLIFIER

Utilizes the revolutionary PWM (pulse width modulation) technique.

High power output; 160 watts r.m.s. per channel.

PLPS (pulse locked power supply).

ST J88/ TUNER

Fully synthesized.

Seven pre-set stations.

Auto tuning facility.

Adjustable selectivity.

Power-off station memory.

HST 49A/CASSIEVER

20 watts per channel (1 kHz).

VHF, MW, LW, SW.

3 position tape selector.

5 programme sensors on both VHF and LW.

HST 99/CASSIEVER (Illustrated below)

40 watts per channel (1 kHz).

VHF/MW/LW/SW with 5 step signal indicator.

One touch programme sensor.

Digital timer clock with timer/sleep set and auto dimmer.

12 segment LED record level meter and power indicator.

Soft touch cassette function control with AMS.

Metal tape position.



STR 232L/RECEIVER

20 watts per channel (1 kHz).

3 wavebands: VHF, MW, LW.

Loudness switch to improve sound at low listening levels.

Separate controls for bass and treble.

Automatic muting in stereo mode.

Stereo indicator light.

Headphone socket.

STR 333L/RECEIVER

25 watts per channel (20 Hz-20 kHz).

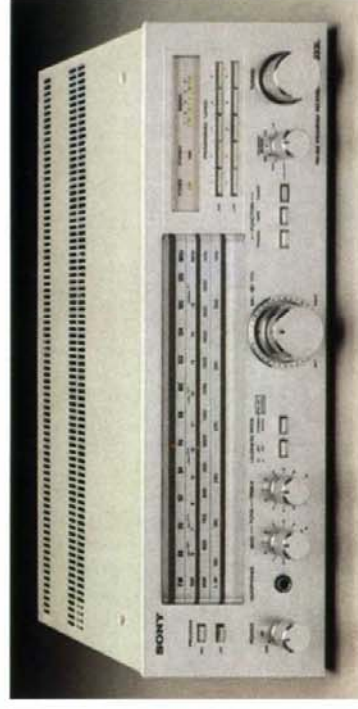
Four wavebands: VHF, MW, LW, SW.

One touch programme sensor: a new system which has all the convenience of pre-sets with the advantage of a visual display of the station location. Five stations can be programmed on VHF and five on LW, and then recalled by direct access push buttons.

Five segment LED signal strength indicator which tells you precisely how strong a signal you are receiving.

Loudness control.

Headphone socket.





STR 434L / RECEIVER

40 watts per channel (20Hz-20kHz).

Four wavebands: VHF, MW, LW, SW.

One touch programme sensor: a new system which has all the convenience of pre-sets with the advantage of a visual display of the station location. Five stations can be programmed on VHF and five on LW, and then recalled by direct access push buttons.

Seven segment LED signal strength indicator.

Digital frequency display.

Connections for two tape recorders.

High filter button.

Loudness control.

Facilities for connecting two pairs of speakers (A,B,A+B).

Headphone socket.



STRV3L / RECEIVER

25 watts per channel (20Hz-20kHz).

Pre-set facility for 5 VHF stations.

Twin centre tuning and signal strength meters.

3 wavebands: VHF, MW, LW.

Combination stereo/mono and FM muting switch.



STRV4L / RECEIVER

50 watts per channel (20Hz-20kHz).

Pre-set facility for 5 VHF stations.

Twin power meters, centre tuning meter, plus signal strength indication.

3 wavebands: VHF, MW, LW.

Facilities for two tape recorders.



STRV5 / RECEIVER

85 watts per channel (20Hz-20kHz).

2 wavebands: VHF and MW.

Twin power meters, centre tuning meter plus signal strength indication.

Full copying facilities for two tape recorders.

Precision flywheel tuning action.

Adjustable tuner selectivity.



STRV6 / RECEIVER

115 watts per channel (20Hz-20kHz).

2 wavebands: VHF and MW.

Twin power meters, centre tuning meter plus signal strength indication.

Connection for two turntables.

Full copying facilities for two tape recorders.

Precision flywheel tuning action.

Cassette Decks and Open Reel Tape Recorders

Thirty years of Sony know-how have gone into developing the tape recorders you'll find in this next section.

Sony Open Reel Tape Recorders are well known for their high standards of performance and provide the degree of flexibility that tape enthusiasts require. Over the years they have consistently set the standards by which other tape equipment is judged.

Equally, when it comes to our range of cassette decks we find it hard to be modest. Not surprisingly, when you consider how much research we've invested helping to change the cassette deck from hi-fi's poor relation to a sophisticated piece of equipment central to a modern system.

All our cassette decks share those features which ensure that the convenience of cassettes is matched by high standards of sound reproduction.

Naturally all the decks incorporate the Dolby noise reduction system to minimise tape hiss.

All have bias and equalisation controls so that you can obtain maximum performance with the various types of tape you use. Some even have a setting for the latest development - metal tape.

In all ways, Sony recorders have been developed to give you the highest quality.

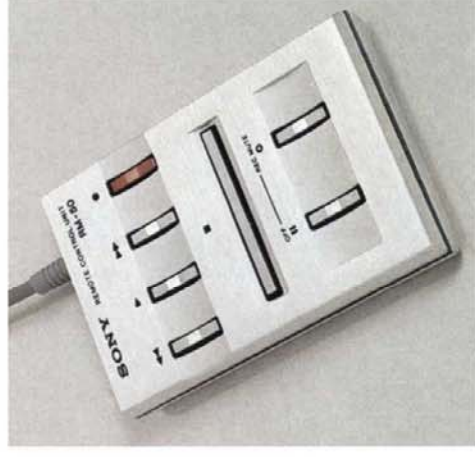
Take the TC K65, illustrated opposite. Here Sony have designed what they consider to be one of the most advanced machines, and you'll find many of its features on the other models in the range.

Instead of conventional VU meters the TC K65 uses Sony's LED display. LED's faithfully register any sudden, sharp peaks of the input signal. Peaks that VU meters are too slow to show.

The TC K65's controls operate at a feather touch with an internal protective logic. Even if you asked the deck to switch from fast forward to fast rewind simultaneously it could safely handle it.

On many decks the heads are made of ferrite and ferrite (F & F) with a life of up to 200 times longer than conventional heads. Crucial, if you want your system to give constantly high performance. The more expensive machines have gone one stage further - 'sendust and ferrite' (S & F) heads with an even higher performance.

As you will see the TC K65 is only one of the range of cassette decks that Sony present here. It's a really wide range, so whatever you require in the way of recording equipment you should be able to find on one of the following pages.



RM.50 optional remote control for use with TC-K65

TC-K65 (Illustrated below)



TC U2/STEREO CASSETTE DECK

Dolby noise reduction system to reduce hiss when recording or playing back tapes.

Illuminated VU meters.

FG servo motor.

3 position tape selector for normal, ferrichrome and chromium dioxide tapes.

Soft eject.

Auto shut-off mechanism.

Stereo headphone socket.



TC U30/CASSETTE DECK

Sixteen segment LED record meters enable simple but precise adjustment of the record level.

3 position tape selector for normal, ferrichrome and chromium dioxide tapes.

Timer facility.

FG servo motor.

Soft eject.

Full auto shut off mechanism.

Input selector for mic. and line.

Stereo headphone jack socket.

Pause button.



TC K35/CASSETTE DECK

Separate three position bias and equalisation switches.

FG servo motor for stable operation.

Soft eject.

Auto shut-off mechanism.

Input selector for mic. and line.

Stereo headphone jack socket.

Spring return rec. mute lever.

Peak level LED indicator.

F and F head.

Direct coupled playback amplifier.



TC K45/CASSETTE DECK

Sixteen segment LED record meters enable simple but precise adjustment of the record level.

Auto play facility.

Separate three position bias and equalisation switches.

Memory counter.

F and F head.

Input selector for mic. and line.

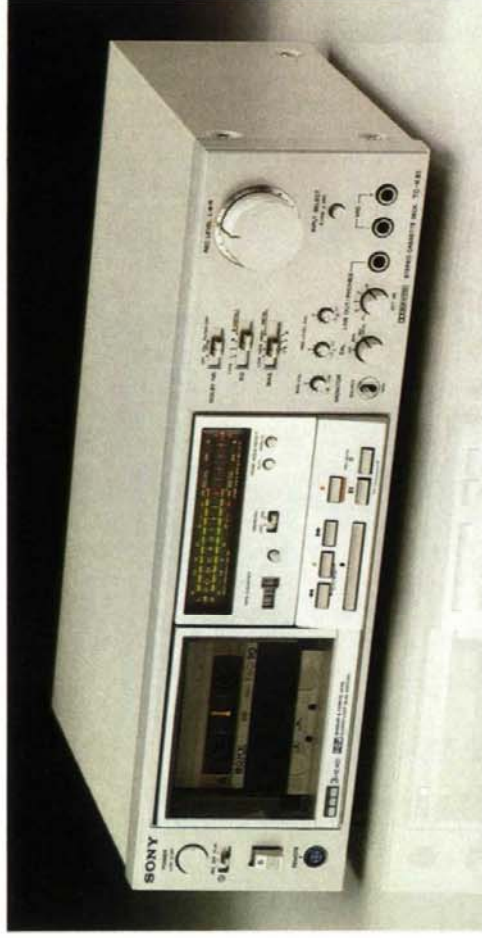
Spring return rec. mute lever.





TC K55 Mk II/CASSETTE DECK

- Micro processor, supervised feather touch function control.
- Two motor tape transport systems, using BSL tri duty motor.
- S and F head.
- Separate four position bias and equalisation controls including metal tape position.
- Five LED peak level indicators.
- Remote control facility (RM 50 optional).
- Auto space record mute facility, holds the deck in pause mode after creating a 4 second blank on the tape.
- Memory counter.



TC K81/CASSETTE DECK

- "Dual suspension" S and F R/PB heads.
- 3 head facility allowing full "off tape" monitoring.
- Closed loop dual capstan tape drive, ensuring accurate tape to head contact.
- 2 motors giving excellent speed stability.
- 16 segment fast reacting LED recording display.
- Dolby calibration tone, for accurate adjustment for different tapes.
- User adjustable bias control.
- Micro processor supervised function control.
- Remote control (RM 50) option.



TC K96R/CASSETTE DECK

- Automatic reverse using roto-bilateral head (F and F).
- Feather touch control unit removable for remote operation.
- Magnetic clutch enables precise high speed tape movement.
- Two motors including capstan FG servo motor.
- Large VU meters with 3 stage peak indicator.



TC K88/CASSETTE DECK

- Slim line unit using unique auto-slide front loading system.
- 33 segment fast reacting LCD peak metering system.
- 3 motors and direct drive crystal locked capstan drive system ensuring excellent speed stability and reliability.
- Separate 4 position bias and equalization switches allowing the use of the new high performance metal tape.
- S & F head.
- Remote control (RM 50) option.
- AMS facility.

TC 765/OPEN REEL TAPE RECORDER

Four track, 3 head format utilising F&F record and playback heads.

3 motor tape transport including an AC servo capstan motor for exceptionally low wow and flutter.

Closed loop dual capstan system ensures perfect tape to head contact.

2 speeds: (19 cm/s, 9.5 cm/s).

TC 766-2/OPEN REEL TAPE RECORDER

Includes TC 765 features but with 2 track record/playback system.

Additional head for 4 track playback.

2 speeds: (38 cm/s, 19 cm/s).



TC 510-2/OPEN REEL TAPE RECORDER

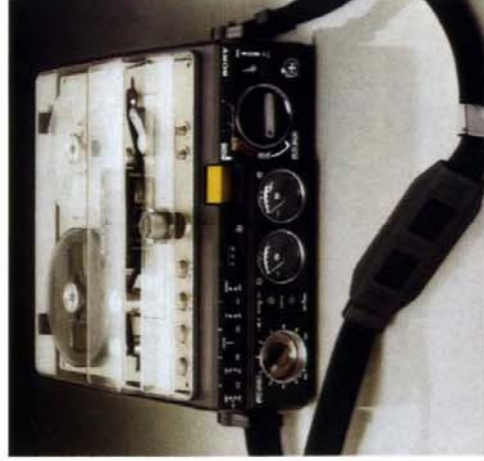
Professional quality portable open reel tape recorder.

Two track, 3 head format utilising F&F record and playback heads.

Two speed. 19/9.5 cms.

Switchable built-in limiter.

4 power sources: batteries, AC adaptor (supplied), rechargeable battery pack (optional), car battery (with optional lead).



TC 399/OPEN REEL TAPE RECORDER

3 head open reel tape recorder.
3 speeds: 19, 9.5 and 4.8 cm/s.
F and F record and playback heads.
Mechanical tension servo for low wow and flutter.
Separate 3 position bias and equalisation
(Normal, Special FeCr).



TC 880-2/OPEN REEL TAPE RECORDER

Professional quality open reel stereo tape recorder.
3 F&F heads including 2 track record, 2 track playback and 4 track playback.
Switchable VU, PPM meter characteristics including peak hold facility.
Sel-synch facility for precision overdubbing.
Tape counter calibrated in real time (at 38 cm/s), in minutes and seconds.



TC 645/OPEN REEL TAPE RECORDER

3 head open reel stereo tape recorder.
3 motors for stable tape transport.
2 speeds: 19 and 9.5 cm/s.
Switchable bias and equalisation.



EL D8/ PORTABLE ELCASET TAPE DECK

Professional quality portable stereo recorder utilizing the ELCASET format.
Direct drive system enables low wow and flutter (0.04% w.r.m.s.).
Peak programme meters with peak hold facility.
Automatic tape selection.
4 power sources: batteries, AC adaptor (supplied), rechargeable battery pack (optional), car battery (with optional lead).

Speakers Choosing speakers is probably one of the most difficult stages in assembling your hi-fi system. They have to match your amplifier, your room and your ears. Just as personal music tastes vary, so do preferences for one speaker rather than another.

The SS E series of speakers ranges from the SS E20 to the SS E70. Depending on your desire for quality and the power of your amplifier, you'll be able to find a speaker that should meet your needs within this range, which has been specially tailored to European tastes.

For the connoisseur, the SS G range, illustrated on the opposite page, has been developed using the most sophisticated design and construction techniques.

Remember, whatever hi-fi systems you have assembled, there is one golden rule; before you buy your speakers, listen to them. Your Sony dealer will be pleased to help. In many cases, optional speaker stands are available.





ACCESSORIES

Illustrated here is a selection from our comprehensive range of accessories. We have just about everything you will require to make your equipment that little bit more versatile, from a connecting lead to a pair of stereo headphones. For further information, please consult the new Sony accessories brochure.



PS 212A	PS 333	PS 636	PST15	PSX35
Type	Semi-automatic	Fully automatic	Semi-automatic	Fully automatic
Speeds	33%, 45 rpm	33%, 45 rpm	33%, 45 rpm	33%, 45 rpm
Motor	Linear BSL motor	BSL DC servo motor	Linear BSL motor	Linear BSL motor
Speed control range	± 3%	± 6%	± 4%	± 4%
Wow and flutter	0.03% wrms, ± 0.045% DN	0.03% wrms, ± 0.045% DN	0.04% wrms, ± 0.065% DN	0.03% wrms, ± 0.05% DN
S/N ratio	70 dB DN	70 dB DN	68 dB DN	73 dB DN
Type	Static balance	Static balance	Static balance	Static balance
Overall arm length	300 mm	216.5 mm	300 mm	300 mm
Stylus force adj. range	0-3 g	0-3 g	0-3 g	0-3 g
Shel weight	13 g (with cartridge)	7.5 g	7.5 g	10.5 g
Cartridge weight range	4-12 g	4.5-11 g	4-10 g	12-18 g (with headshell)
Type	VL 33G	VL 37G	XL15	XL15
Channel separation	Better than 20 dB at 1 kHz	Better than 23 dB at 1 kHz	Better than 25 dB at 1 kHz	Better than 25 dB at 1 kHz
Output voltage	3.5 mV at 1 kHz	3 mV at 1 kHz	4 mV at 1 kHz	4 mV at 1 kHz
Tracking weight	2-3 g (2.5 g recommended)	2-3 g (2.5 g recommended)	1.7 g recommended	1.7 g recommended
Stylus	ND1366	ND1366	ND156 conical, 0.6 mil diamond	ND156 conical, 0.6 mil diamond
Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz
Power consumption	6 watts	6 watts	8 watts	8 watts
Dimensions	410 (W) x 125 (H) x 370 (D) mm	430 (W) x 125 (H) x 365 (D) mm	445 (W) x 140 (H) x 375 (D) mm	445 (W) x 140 (H) x 395 (D) mm
Weight	4.8 kg	5.3 kg	5 kg	5.8 kg
PS X40	PS X60	PS X70	PS P7X	PS B80
Type	Fully automatic	Fully automatic	Fully automatic	Fully automatic
Speeds	33%, 45 rpm	33%, 45 rpm	33%, 45 rpm	33%, 45 rpm
Motor	Linear BSL motor	Linear BSL motor	Linear BSL motor	Linear BSL motor
Speed control range	Fixed	Fixed	Fixed	Fixed
Wow and flutter	0.025% wrms, ± 0.045% DN	0.025% wrms, ± 0.045% DN	0.025% wrms, ± 0.045% DN	0.02% wrms, ± 0.04% DN
S/N ratio	73 dB DN	75 dB DN	75 dB DN	78 dB DN
Type	Static balance	Static balance	Static balance	Electrocr (electronically controlled)
Overall arm length	300 mm	330 mm	300 mm	325 mm
Stylus force adj. range	0-3 g	0-2.5 g	0-3 g	0.5-3 g
Shel weight	11 g	11 g	11 g	11 g
Cartridge weight range	12-19 g (with headshell)	11-19.5 g, 19-27.5 g (with extra weight)	12-18.5 g, 18-24.5 g (with extra weight)	12-22 g, 21-31 g (with extra weight)
Type	Not supplied	Not supplied	Not supplied	Not supplied
Output voltage			4 mV at 1 kHz	
Stylus	ND 15G	ND 15G	ND 15G	ND 15G
Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz (AC 220V selectable internally)	AC 110-120, 220-240V, 50/60 Hz
Power consumption	8 watts	12 watts	12 watts	26 watts
Dimensions	415 (W) x 145 (H) x 400 (D) mm	490 (W) x 165 (H) x 420 (D) mm	480 (W) x 165 (H) x 420 (D) mm	500 (W) x 175 (H) x 430 (D) mm
Weight	8 kg	12 kg	13 kg	15 kg
ST 212AL	ST 333L	ST 636	ST A30L	ST J60
Sensitivity	3 μV (IHF)	1.9 μV (IHF)	1.8 μV (IHF)	1.8 μV (IHF)
S/N ratio	70 dB (mono), 65 dB (stereo)	75 dB (mono), 70 dB (stereo)	75 dB (mono), 70 dB (stereo)	68 dB (mono), 64 dB (stereo)
Capture ratio	2.5 dB	1.0 dB	1.0 dB	1.0 dB
Selectivity	40 dB	55 dB	57 dB	50 dB (300 Hz), 75 dB (400 Hz)
Image rejection	40 dB	45 dB	80 dB	85 dB
IF rejection	80 dB	80 dB	70 dB	95 dB
Spurious rejection	80 dB	80 dB	90 dB	100 dB
AM suppression	49 dB	50 dB	54 dB	60 dB
Frequency response	30-15,000 Hz ± 3 dB	30-15,000 Hz + 0.5/-2 dB	30-15,000 Hz + 0.5/-2 dB	30-15,000 Hz + 0.2/-0.5 dB
Aerial terminals	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced
Harmonic distortion	0.5% (mono), 0.8% (stereo)	0.15% (mono), 0.3% (stereo)	0.1% (mono), 0.2% (stereo)	0.15% (mono), 0.4% (stereo) at 1 kHz
Stereo separation	30 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	100 Hz 0.1%, 0.3%, 0.2%, 0.5% 1 kHz 0.1% 10 kHz 0.1% 100 Hz 48 dB 1 kHz 50 dB 10 kHz 40 dB
MM 530-1605 kHz	MM 530-1605 kHz	MM 530-1605 kHz	MM 530-1605 kHz	MM 530-1605 kHz
Listening range	LW 150-350 kHz	LW 150-350 kHz	LW 150-350 kHz	LW 150-350 kHz
Sensitivity	SW 5.8-15.8 mV/m	SW 5.8-15.8 mV/m	SW 5.8-15.8 mV/m	SW 250 μV/m built-in, 100 μV/m external
Harmonic distortion	1%	0.3% (at 400 Hz)	0.3% (at 400 Hz)	LW 500 μV/m built-in, 100 μV/m external
Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz
Dimensions (approx.)	407 (W) x 150 (H) x 300 (D) mm	430 (W) x 130 (H) x 290 (D) mm	430 (W) x 130 (H) x 311 (D) mm	430 (W) x 80 (H) x 275 (D) mm
Weight (approx.)	4.6 kg	5.2 kg	6.2 kg	3.6 kg
ST P7J	ST A7B	ST J68		
Sensitivity	1.8 μV (IHF)	1.5 μV (IHF)	3.2 μV (50 dB)	
S/N ratio	68 dB (mono), 64 dB (stereo)	80 dB (mono), 75 dB (stereo)	75 dB (mono), 70 dB (stereo)	
Capture ratio	1 dB	0.8 dB (normal), 1.8 dB (narrow)	1.0 dB (normal/narrow)	
Selectivity	80 dB at 300 kHz	300 kHz, 26 dB (normal), 76 dB (narrow)	90 dB	
Image rejection	85 dB	90 dB	120 dB	
IF rejection	100 dB	120 dB	110 dB	
Spurious rejection	100 dB	120 dB	110 dB	
AM suppression	60 dB	60 dB	60 dB	
Frequency response	30 Hz-15 kHz + 0.2/-0.5 dB	20 Hz-15 kHz + 0.2/-0.5 dB	30-15,000 Hz + 0.2 dB/-0.5 dB	
Aerial terminals	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	
Harmonic distortion	100 Hz 0.1%, 0.3% 1 kHz 0.1% 10 kHz 0.1% 100 Hz 48 dB at 100 Hz, 50 dB at 1 kHz	Mono Stereo 100 Hz 0.04%, 0.08% 1 kHz 0.04%, 0.08% 10 kHz 0.05%, 0.3%	Mono Stereo 100 Hz 0.04%/- 1 kHz 0.04%/- 10 kHz 0.04%/- 100 Hz 0.04%/- 1 kHz 0.04%/- 10 kHz 0.04%/- 100 Hz 50 dB	
Stereo separation	100 Hz 48 dB 1 kHz 50 dB 10 kHz 40 dB	(normal/narrow) 100 Hz 50 dB 1 kHz 55 dB 10 kHz 40 dB	(normal/narrow) 100 Hz 50 dB 1 kHz 50 dB 10 kHz 45 dB 45 dB at 40 dB	
Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50/60 Hz	
Power consumption	13 watts	45 watts	25 watts	
Dimensions (approx.)	215 (W) x 80 (H) x 330 (D) mm	430 (W) x 170 (H) x 420 (D) mm	480 (W) x 60 (H) x 370 (D) mm	
Weight (approx.)	3.6 kg	14.1 kg	6.7 kg	

General	Rated output (rms)	STR 232L	STR 333L	STR 434L	STRV3L	STRV4L
	Harmonic distortion	20 w/ch (10 Hz, 8 ohms)	2.5 w/ch (20 Hz-20 kHz, 8 ohms)	40 w/ch (20 Hz-20 kHz, 8 ohms)	25 w/ch (20 Hz-20 kHz, 8 ohms)	50 w/ch (40 Hz-16 kHz, 8 ohms)
Inputs	Inputs	0.7% at rated output	0.3% at rated output	0.08% at rated output	0.3% at rated output	0.1% at rated output
	Impedance	50 k ohms	50 k ohms	50 k ohms	50 k ohms	50 k ohms
Outputs	High level inputs	2.5 mV	2.5 mV	2.5 mV	2.5 mV	2.5 mV
	Low level inputs	150 mV	150 mV	150 mV	150 mV	150 mV
Speakers	Rec. out	10 k ohms	10 k ohms	10 k ohms	10 k ohms	10 k ohms
	Impedance	150 mV	150 mV	150 mV	150 mV	150 mV
Headphone	Headphone	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
	Frequency response	Phono/RMA equalisation curve ± 1 dB, 10-50,000 Hz $\pm 0.5-3$ dB tape	Phono/RMA equalisation curve ± 1 dB, 10-50,000 Hz $\pm 0.5-3$ dB	Phono/RMA equalisation curve ± 1 dB, 10-50,000 Hz $\pm 0.5-3$ dB	Phono/RMA equalisation curve ± 0.8 dB, 10-40,000 Hz $\pm 0.5-3$ dB	Phono/RMA equalisation curve ± 0.8 dB, 5-50,000 Hz $\pm 0.5-2$ dB
FM Section	S/N ratio	Phono 70 dB, others 90 dB	Phono 70 dB, tape 90 dB	Phono 80 dB, tape 95 dB	Phono 75 dB, others 100 dB	Phono 75 dB, others 100 dB
	Tuning range	VHF 87.5-108 MHz	VHF 87.5-108 MHz	VHF 87.5-108 MHz	VHF 87.5-108 MHz	VHF 87.5-108 MHz
FM Section	Sensitivity	1.9 μ V (HF)	1.9 μ V (HF)	1.6 μ V (HF)	1.6 μ V (S/N=26 dB)	1.6 μ V (S/N=26 dB)
	Capture ratio	1 dB	1 dB	1 dB	1 dB	1 dB
FM Section	Selectivity	55 dB	55 dB	55 dB	70 dB	70 dB
	Frequency response	30-15,000 Hz $\pm 0.5-2$ dB	30-15,000 Hz $\pm 0.5-2$ dB	30-15,000 Hz $\pm 0.5-2$ dB	30-15,000 Hz $\pm 1-2$ dB	30-15,000 Hz $\pm 1-2$ dB
Stereo separation	Stereo separation	45 dB (1 kHz)	45 dB	45 dB	45 dB (1 kHz)	45 dB (1 kHz)
	Frequency response	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced	300 ohms balanced
Aerial terminals	Aerial terminals	MW 530-1605 MHz, LW 150-350 kHz, SW 5.8-15.8 MHz	MW 530-1605 MHz, LW 150-350 kHz, SW 5.8-15.8 MHz	MW 530-1605 MHz, LW 150-350 kHz, SW 5.8-15.8 MHz	MW 530-1605 MHz, LW 150-350 kHz	MW 530-1605 MHz, LW 150-350 kHz
	Tuning range	Built-in ferrite bar (LW), attached antenna wire (MW), external terminals (MW, LW)	Built-in ferrite bar (LW), attached antenna wire (MW), external terminals (MW, LW)	Built-in ferrite bar (MW, LW), external terminals (VHF, SW)	Built-in ferrite bar (MW, LW), external aerial terminals (MW, LW)	Built-in ferrite bar aerial, external aerial terminals
AM Section	Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz
	Power consumption	110 watts	240 watts	380 watts	380 watts	410 watts
General	Dimensions (approx.)	410 (W) x 145 (H) x 305 (D) mm	430 (W) x 145 (H) x 310 (D) mm	430 (W) x 145 (H) x 310 (D) mm	440 (W) x 145 (H) x 310 (D) mm	480 (W) x 145 (H) x 395 (D) mm
	Weight (approx.)	5.9 kg	7.6 kg	9.3 kg	8.5 kg	14 kg
S/N Ratio	Rated output (rms)	STRV3	STRV6	STRV9	HST 49A	HST 99
	Harmonic distortion	115 w/ch (20 Hz-20 kHz, 8 ohms)	115 w/ch (20 Hz-20 kHz, 8 ohms)	20 watts per channel (1 kHz, 8 ohms)	Less than 0.5% at 1 watt	Less than 0.2% at rated output
Inputs	Inputs	0.07% at rated output	0.07% at rated output	47 k ohms	47 k ohms	47 k ohms
	Impedance	50 k ohms	50 k ohms	600 ohms	600 ohms	600 ohms
Outputs	High level inputs	2.5 mV	2.5 mV	47 k ohms	47 k ohms	47 k ohms
	Low level inputs	100 k ohms	100 k ohms	500 mV	500 mV	500 mV
Speakers	Rec. out	4.7 k ohms	4.7 k ohms	10 k ohms	10 k ohms	10 k ohms
	Impedance	150 mV	150 mV	250 mV	250 mV	250 mV
Headphone	Headphone	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
	Frequency response	Phono/RMA equalisation curve ± 0.5 dB, 5 Hz-50 kHz $\pm 0.2-2$ dB aux, tape	Phono 1.2/RMA equalisation curve ± 0.5 dB, 5 Hz-50 kHz $\pm 0.2-2$ dB aux, tape	Phono 75 dB, others 100 dB	Phono 70 dB, aux 90 dB	Phono/RMA equalisation curve ± 2 dB, Phono 65 dB, mic 60 dB, aux 70 dB
S/N Ratio	S/N ratio	Phono 75 dB, others 100 dB	Phono 75 dB, others 100 dB	Phono 75 dB, others 100 dB	40-12,500 Hz ± 6 dB (normal)	40-12,500 Hz ± 6 dB (normal)
	Tuning range	VHF 87.5-108 MHz	VHF 87.5-108 MHz	VHF 87.5-108 MHz	40-12,500 Hz ± 6 dB (C/O)	40-12,500 Hz ± 6 dB (C/O)
FM Section	Capture ratio	1.4 μ V (S/N=26 dB)	1.3 μ V (S/N=26 dB)	1.3 μ V (S/N=26 dB)	52 dB (C/O), Dolby off	52 dB (C/O), Dolby off
	Selectivity	1 dB	1 dB	1 dB	3%	3%
Frequency response	Frequency response	50 dB at 300 kHz, 85 dB at 400 kHz	55 dB (normal), 85 dB (narrow) at 400 kHz	55 dB (normal), 85 dB (narrow) at 400 kHz	2.2 μ V (S/N=30 dB)	2.2 μ V (S/N=30 dB)
	Stereo separation	30-15,000 Hz $\pm 0.2-1.5$ dB	30-15,000 Hz $\pm 0.2-1.5$ dB	30-15,000 Hz $\pm 0.2-1.5$ dB	0.5% (mono), 1% (stereo)	0.5% (mono), 1% (stereo)
Aerial terminals	Aerial terminals	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	300 ohms balanced, 75 ohms unbalanced	70-12,500 Hz ± 3 dB	70-12,500 Hz ± 3 dB
	Tuning range	MW 530-1605 MHz	MW 530-1605 MHz	MW 530-1605 MHz	45 dB	45 dB
Aerial	Aerial	Built-in ferrite bar aerial, external aerial terminals	Built-in ferrite bar aerial, external aerial terminals	Built-in ferrite bar aerial, external aerial terminals	MW 530-1605 MHz, LW 150-350 kHz, SW 5.8-15.8 MHz	MW 530-1605 MHz, LW 150-350 kHz, SW 5.8-15.8 MHz
	Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	MW 500 μ V/m built-in, 35 μ V external	MW 500 μ V/m built-in, 35 μ V external
Power consumption	Power consumption	430 watts	620 watts	620 watts	LW 55 μ V/m built-in, 150 μ V external	LW 55 μ V/m built-in, 150 μ V external
	Dimensions (approx.)	525 (W) x 195 (H) x 450 (D) mm	525 (W) x 195 (H) x 450 (D) mm	525 (W) x 195 (H) x 450 (D) mm	SW 30 μ V external	SW 30 μ V external
Weight (approx.)	Weight (approx.)	19 kg	22 kg	22 kg	AC 240V, 50 Hz	AC 240V, 50 Hz
	Rated output (rms)	HST 49A	HST 99	HST 99	195 watts	195 watts
Harmonic distortion	Harmonic distortion	Less than 0.5% at 1 watt	Less than 0.2% at rated output	Less than 0.2% at rated output	456 (W) x 225 (H) x 247 (D) mm	456 (W) x 240 (H) x 267 (D) mm
	Inputs	47 k ohms	47 k ohms	47 k ohms	6.9 kg	11.5 kg
Mic.	Mic.	3.5 mV	3.5 mV	3.5 mV		
	High level inputs	47 k ohms	47 k ohms	47 k ohms		
Outputs	Outputs	500 mV	500 mV	500 mV		
	Impedance	47 k ohms	47 k ohms	47 k ohms		
Rec. out	Rec. out	10 k ohms	10 k ohms	10 k ohms		
	Impedance	250 mV	250 mV	250 mV		
Speaker	Speaker	8 ohms	8 ohms	8 ohms		
	Headphone	8 ohms	8 ohms	8 ohms		
Frequency response	Frequency response	Phono/RMA equalisation curve ± 2 dB, Phono 65 dB, mic 60 dB, aux 70 dB	Phono/RMA equalisation curve ± 2 dB, Phono 70 dB, aux 90 dB	Phono/RMA equalisation curve ± 2 dB, Phono 70 dB, aux 90 dB		
	S/N ratio	40-12,500 Hz ± 6 dB (normal)	40-12,500 Hz ± 6 dB (normal)	40-12,500 Hz ± 6 dB (normal)		
Cassette	Frequency response	40-12,500 Hz ± 6 dB (C/O)	40-12,500 Hz ± 6 dB (C/O)	40-12,500 Hz ± 6 dB (C/O)		
	Wow and flutter	0.18% rms	0.04% rms	0.04% rms		
Harmonic distortion	Harmonic distortion	3%	1%	1%		
	S/N ratio	2.2 μ V (S/N=30 dB)	1.6 μ V (S/N=30 dB)	1.6 μ V (S/N=30 dB)		
FM Section	Sensitivity	2.2 μ V (S/N=30 dB)	1.6 μ V (S/N=30 dB)	1.6 μ V (S/N=30 dB)		
	S/N ratio	0.5% (mono), 1% (stereo)	0.1% (mono), 0.3% (stereo)	0.1% (mono), 0.3% (stereo)		
Stereo separation	Stereo separation	35 dB	40 dB	40 dB		
	AM suppression	45 dB	40 dB	40 dB		
FM Section	Tuning range	70-12,500 Hz ± 3 dB	30-15,000 Hz ± 3 dB	30-15,000 Hz ± 3 dB		
	Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz		
AM Section	Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz		
	Power consumption	195 watts	240 watts	240 watts		
General	Dimensions (approx.)	456 (W) x 225 (H) x 247 (D) mm	456 (W) x 240 (H) x 267 (D) mm	456 (W) x 240 (H) x 267 (D) mm		
	Weight (approx.)	6.9 kg	11.5 kg	11.5 kg		

TCU2	TCU30	TCU60	TC335	TC445
Wow and flutter	0.06% wrms, $\pm 0.2\%$ DIN	0.04% wrms, $\pm 0.12\%$ DIN	0.05% wrms, $\pm 0.14\%$ DIN	0.05% wrms, $\pm 0.14\%$ DIN
S/N ratio*	56 dB (FeCr)	59 dB (FeCr)	58 dB (FeCr)	58 dB (FeCr)
Frequency response	50–13,000 Hz (± 3 dB) FeCr 30–16,000 Hz (± 3 dB) FeCr	30–16,000 Hz (± 3 dB) FeCr 30–16,000 Hz (± 3 dB) FeCr	30–16,000 Hz (± 3 dB) FeCr 30–15,000 Hz (DIN) FeCr	30–15,000 Hz (± 3 dB) FeCr 30–15,000 Hz (DIN) FeCr
Total harmonic dist.	2% with FeCr tape	1.7% with FeCr tape	1.3% with FeCr tape	1.3% with FeCr tape
Inputs				
Mic	Low -70 dB (0.25 mV)	Low -70 dB (0.25 mV)	Low -70 dB (0.25 mV)	Low -70 dB (0.25 mV)
Line	100 k ohms -20 dB (77.5 mV)	50 k ohms -20 dB (77.5 mV)	50 k ohms -20 dB (77.5 mV)	50 k ohms -20 dB (77.5 mV)
DN	10 k ohms	10 k ohms	10 k ohms	10 k ohms
Outputs	Impedance more than 10 k ohms	Impedance 10 k ohms	Impedance more than 10 k ohms	Impedance more than 10 k ohms
Line	435 mV	435 mV	435 mV	435 mV
DN	50 k ohms	50 k ohms	50 k ohms	50 k ohms
Headphones	8 ohms	8 ohms	8 ohms	8 ohms
Motor	FG servo motor	In duty FG servo motor	FG servo motor	FG servo motor
Heads	1 x rec/PB head, 1 x erase head	1 x F&F rec/PB head, 1 x erase head	1 x F&F rec/PB head, 2 x erase heads	1 x F&F rec/PB head, 1 x erase head
Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz
Power consumption	12 watts	16 watts	12 watts	14 watts
Dimensions (approx.)	410 (H) x 145 (W) x 260 (D) mm	430 (H) x 130 (H) x 290 (D) mm	430 (H) x 130 (H) x 290 (D) mm	430 (H) x 130 (H) x 290 (D) mm
Weight (approx.)	5 kg	5.4 kg	5.8 kg	5.8 kg

TC K55 Mk II	TC K65	TC K81	TC K88	TC K96R
Wow and flutter	0.04% wrms, $\pm 0.12\%$ DIN	0.04% wrms, $\pm 0.12\%$ DIN	0.03% wrms, $\pm 0.085\%$ DIN	0.05% wrms, $\pm 0.14\%$ DIN
S/N ratio*	59 dB (FeCr)	59 dB (FeCr)	60 dB (FeCr)	59 dB
Frequency response	30–17,000 Hz (± 3 dB) FeCr 30–17,000 Hz (DIN) FeCr	30–17,000 Hz (± 3 dB) FeCr 30–17,000 Hz (DIN) FeCr	30–17,000 Hz (± 3 dB) FeCr 30–17,000 Hz (DIN) FeCr	30–16,000 Hz (± 3 dB) FeCr 30–16,000 Hz (DIN) FeCr
Total harmonic dist.	1% with FeCr tape	1% with FeCr tape	0.9% with FeCr	1.3% with FeCr tape
Inputs				
Mic	Low -70 dB (0.25 mV)	Low -70 dB (0.25 mV)	Low -70 dB (0.25 mV)	Low -70 dB (0.25 mV)
Line	50 k ohms -20 dB (77.5 mV)	50 k ohms -20 dB (77.5 mV)	50 k ohms -20 dB (77.5 mV)	100 k ohms -20 dB (77.5 mV)
DN	10 k ohms	10 k ohms	10 k ohms	10 k ohms
Outputs	Impedance more than 10 k ohms	Impedance more than 10 k ohms	Impedance more than 10 k ohms	Impedance more than 10 k ohms
Line	435 mV	435 mV	435 mV	435 mV
DN	50 k ohms	50 k ohms	50 k ohms	50 k ohms
Headphones	8 ohms	8 ohms	8 ohms	8 ohms
Motor	Two (one FG servo capstan)	Two (one FG servo capstan)	Two (one FG servo capstan)	Two BSL, 1 x side motor
Heads	1 x S&F rec/PB head, 1 x erase head	1 x S&F rec/PB head, 1 x erase head	1 x S&F rec/PB head, 1 x erase head	1 x F&F rec/PB head, 2 x erase heads
Power requirements	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 110, 120, 220, 240V, 50/60 Hz
Power consumption	26 watts	26 watts	28 watts	33 watts
Dimensions (approx.)	430 (H) x 130 (H) x 290 (D) mm	430 (H) x 130 (H) x 290 (D) mm	430 (H) x 130 (H) x 290 (D) mm	430 (H) x 130 (H) x 290 (D) mm
Weight (approx.)	5.2 kg	5.2 kg	6.3 kg	8.5 kg

TC 399	TC 645	TC 765	TC 766-2	TC 880-2
Wow and flutter	19.9% ± 4.8 cm/s	19.9% $\pm 0.7\%$ DIN	19.9% $\pm 0.7\%$ DIN	19.9% $\pm 0.7\%$ DIN
S/N ratio*	55 dB (normal), 58 dB (special)	53 dB (normal), 56 dB (SLH)	55 dB (normal), 58 dB (SLH), 61 dB (FeCr)	58 dB (normal), 62 dB (SLH), 65 dB (FeCr)
Frequency response	FeCr tape	SLH* tape	SLH* FeCr* tape 19 cm/s 30–25,000 Hz ± 3 dB 30–25,000 Hz 19 cm/s 30–25,000 Hz (DIN) 19 cm/s 30–24,000 Hz (DIN)	FeCr* tape 38 cm/s 20–40,000 Hz ± 2 dB FeCr* tape 19 cm/s 25–30,000 Hz ± 2 dB
Total harmonic dist.	0.8% with FeCr tape	1.2%	0.7% with FeCr* tape	0.5% with FeCr* tape
Inputs				
Mic	Low -70 dB (0.25 mV)	Low -72 dB (0.2 mV)	Low -72 dB (0.2 mV)	Low -72 dB (0.2 mV)
Line	100 k ohms -20 dB (77.5 mV)	100 k ohms -22 dB (60 mV)	100 k ohms -22 dB (60 mV)	100 k ohms -22 dB (60 mV)
DN	10 k ohms	10 k ohms	10 k ohms	100 k ohms
Outputs	Impedance more than 10 k ohms	Impedance more than 10 k ohms	Impedance more than 10 k ohms	Impedance more than 10 k ohms
Line	435 mV	775 mV	435 mV	435 mV
DN	50 k ohms	8 ohms	50 k ohms	50 k ohms
Headphone	8 ohms	8 ohms	8 ohms	8 ohms
Motor	1 x F&F rec head, 1 x F&F PB head, 1 x erase head	1 x F&F rec head, 1 x F&F PB head, 1 x erase head	1 x F&F rec head, 1 x F&F PB head, 1 x erase head	1 x F&F rec head (2T), 1 x F&F PB head (2T), 1 x F&F PB head (2T), 1 x F&F PB head (2T)
Heads	AC100, 120, 220, 240V, 50/60 Hz	AC100, 120, 220, 240V, 50/60 Hz	AC100, 120, 220, 240V, 50/60 Hz	AC100, 120, 220, 240V, 50/60 Hz
Power requirements	35 watts	10 watts	90 watts	120 watts
Power consumption	415 (W) x 435 (H) x 190 (D) mm	378 (W) x 370 (H) x 224 (D) mm	445 (W) x 525 (H) x 235 (D) mm	465 (W) x 515 (H) x 265 (D) mm
Dimensions (approx.)	12.9 kg	18.5 kg	27 kg	36.5 kg
Weight (approx.)				

TC 510-2	ELD 8
Wow and flutter	19.9% $\pm 0.6\%$ wrms, $\pm 0.09\%$ DIN
S/N ratio*	54.5 cm/s $\pm 0.09\%$ wrms, $\pm 0.12\%$ DIN
Frequency response	FeCr tape
Total harmonic dist.	0.8% with FeCr tape
Inputs	
Mic	Low -70 dB (0.25 mV)
Line	100 k ohms -20 dB (77.5 mV)
DN	10 k ohms
Outputs	Impedance more than 10 k ohms
Line	435 mV
DN	50 k ohms
Headphone	8 ohms
Motor	1 x F&F rec head, 1 x F&F PB head, 1 x erase head
Heads	AC100, 120, 220, 240V, 50/60 Hz
Power requirements	35 watts
Power consumption	415 (W) x 435 (H) x 190 (D) mm
Dimensions (approx.)	12.9 kg
Weight (approx.)	

TC 510-2	ELD 8
Wow and flutter	19.9% $\pm 0.6\%$ wrms, $\pm 0.09\%$ DIN
S/N ratio*	54.5 cm/s $\pm 0.09\%$ wrms, $\pm 0.12\%$ DIN
Frequency response	FeCr tape
Total harmonic dist.	0.8% with FeCr tape
Inputs	
Mic	Low -70 dB (0.25 mV)
Line	100 k ohms -20 dB (77.5 mV)
DN	10 k ohms
Outputs	Impedance more than 10 k ohms
Line	435 mV
DN	50 k ohms
Headphone	8 ohms
Motor	1 x F&F rec head, 1 x F&F PB head, 1 x erase head
Heads	AC100, 120, 220, 240V, 50/60 Hz
Power requirements	35 watts
Power consumption	415 (W) x 435 (H) x 190 (D) mm
Dimensions (approx.)	12.9 kg
Weight (approx.)	

TC 510-2	ELD 8
Wow and flutter	19.9% $\pm 0.6\%$ wrms, $\pm 0.09\%$ DIN
S/N ratio*	54.5 cm/s $\pm 0.09\%$ wrms, $\pm 0.12\%$ DIN
Frequency response	FeCr tape
Total harmonic dist.	0.8% with FeCr tape
Inputs	
Mic	Low -72 dB (0.2 mV)
Line	100 k ohm -22 dB (60 mV)
Line	more than 10 k ohms
Headphone	8 ohms (adjustable volume)
Power output	500 mW
Speaker	44 x 94 mm
Motor	1 x DC servo motor
Heads	1 x F&F rec head, 1 x F&F PB head, 1 x erase head
Power requirements	DC 12V, 8 x HP2 (D) used batteries, AC 240 V, 50 Hz with power adaptor, optional rechargeable battery pack (BP 55), battery via optional car battery cord (DCC 130)
Power consumption	11 watts (with AC 26)
Dimensions (approx.)	332 (W) x 136 (H) x 296 (D) mm
Weight (approx.)	6.8 kg including batteries

TC 510-2	ELD 8
Wow and flutter	19.9% $\pm 0.6\%$ wrms, $\pm 0.09\%$ DIN
S/N ratio*	54.5 cm/s $\pm 0.09\%$ wrms, $\pm 0.12\%$ DIN
Frequency response	FeCr tape
Total harmonic dist.	0.8% with FeCr tape
Inputs	
Mic	Low -72 dB (0.2 mV)
Line	100 k ohm -22 dB (60 mV)
Line	more than 10 k ohms
Headphone	8 ohms (adjustable volume)
Power output	500 mW
Speaker	44 x 94 mm
Motor	1 x DC servo motor
Heads	1 x F&F rec head, 1 x F&F PB head, 1 x erase head
Power requirements	DC 12V, 8 x HP2 (D) used batteries, AC 240 V, 50 Hz with power adaptor, optional rechargeable battery pack (BP 55), battery via optional car battery cord (DCC 130)
Power consumption	11 watts (with AC 26)
Dimensions (approx.)	332 (W) x 136 (H) x 296 (D) mm
Weight (approx.)	6.8 kg including batteries

*DIN 45–633, measured with Dolby off; Dolby on improvement 5 dB at 1 kHz, more than 10 dB at 5 kHz.

	HMK 11B	HMK 33/33B	HMK 44	HMK 60/60B	HMK 7000
Tuning range	WF 87.5–108 MHz	WF 87.5–108 MHz	WF 87.5–108 MHz	WF 87.5–108 MHz	WF 87.5–108 MHz
Sensitivity	2.2 µV (S/N = 30 dB)	2.2 µV (S/N = 30 dB)	2.0 µV (S/N = 30 dB)	1.8 µV (S/N = 30 dB)	10 µV (S/N = 30 dB)
Wave bands	MW, LW	MW, LW	MW, LW	MW, LW	MW, LW
Rated output (r.m.s.)	SW 5.8–15.8 MHz 12 watts per channel at 1 kHz (8 ohms), music power 35 watts (total)	SW 5.8–15.8 MHz 18 watts per channel at 1 kHz (8 ohms), music power 50 watts (total)	25 watts per channel at 40 Hz–15 MHz (8 ohms), music power 90 watts (total)	35 watts per channel at 1 kHz (8 ohms), music power 100 watts (total)	30 watts per channel at 1 kHz (8 ohms), music power 90 watts (total)
Speeds	3.3%, 4.5 rpm	3.3%, 4.5 rpm	3.3%, 4.5 rpm	3.3%, 4.5 rpm	3.3%, 4.5 rpm
Motor	DC servo motor	DC servo motor	DC servo motor	DC servo motor	DC servo motor
Drive	Belt drive	Belt drive	Belt drive	Direct drive	Direct drive
Wow and flutter	0.08% wrms, ± 0.12% DIN	0.08% wrms, ± 0.12% DIN	0.1% wrms	0.04% wrms, ± 0.09% DIN	0.04% wrms, 68 dB
S/N ratio	55 dB	55 dB	55 dB	68 dB	68 dB
Cartridge	VI-336	VI-336	VI-336S	VI-346	VI-346
Tracking force	3 g	3 g	3 g	1.5–2.5 (2 g rec.)	1.5–2.5 (2 g rec.)
Stylus	ND-1366	ND-1366	ND-1366	ND-1346	ND-1346
Wow and flutter	0.2% wrms	0.2% wrms	0.18% wrms	0.2% wrms	0.04% wrms
S/N ratio*	46 dB (DCC) HNR off	46 dB (DCC) HNR off	50 dB (FCO)	46 dB (normal), 48 dB (FCO)	56 dB (normal), 58 dB (FCO)
Frequency response	40–12,500 Hz ± 3 dB (normal)	40–12,500 Hz ± 3 dB (normal)	50–12,500 Hz ± 3 dB (normal)	40–16,000 Hz ± 3 dB (FCO, DCC)	30–17,000 Hz ± 3 dB (FCO, DCC)
System	2-way speaker system	2-way speaker system	2-way speaker system	2-way woofer 200 mm diameter cone	Recommended speakers SS E50
Handling power	40 watts (music)	40 watts (music)	40 watts (music)	type: tweeter 25 mm diameter dome type, 60 watts (DIN)	60 watts (DIN)
Impedance	8 ohms	8 ohms	8 ohms	290 (W) x 5.35 (H) x 2.90 (D) mm	8 ohms
Dimensions (approx.)	300 (W) x 500 (H) x 190 (D) mm	300 (W) x 500 (H) x 190 (D) mm	300 (W) x 500 (H) x 190 (D) mm	290 (W) x 5.35 (H) x 2.90 (D) mm	290 (W) x 5.35 (H) x 2.90 (D) mm
Weight (approx.)	5.4 kg	5.4 kg	5.4 kg	9.5 kg	9.5 kg
Power requirements	AC 240 V, 50 Hz	AC 240 V, 50 Hz	AC 240 V, 50 Hz	AC 240 V, 50 Hz	AC 240 V, 50 Hz
Power consumption	75 watts	100 watts	100 watts	250 watts	300 watts
Dimensions (approx.)	613 (W) x 146 (H) x 428 (D) mm	613 (W) x 146 (H) x 428 (D) mm	508 (W) x 254 (H) x 628 (D) mm	663 (W) x 177 (H) x 495 (D) mm	688 (W) x 160 (H) x 500 (D) mm
Weight (approx.)	9.2 kg	9.5 kg	16.5 kg	19.3 kg	24 kg
Supplied accessories	microphone, instruction cassette, ribbon antenna	microphone, instruction cassette, ribbon antenna	microphone, instruction cassette, ribbon antenna	set of headphones, microphone, ribbon antenna, 45 rpm adapter	set of headphones, microphone, ribbon antenna, 45 rpm adapter

HMK 9000

Tuning range	WF 87.5–108 MHz
Sensitivity	10 µV (S/N = 50 dB)
Wave bands	MW, LW
Rated output (r.m.s.)	40 watts per channel at 1 kHz (8 ohms) music power 120 watts (total)
Speeds	3.3%, 4.5 rpm
Motor	DC servo motor
Drive	Computerised direct drive
Wow and flutter	0.03% wrms, ± 0.045% DIN
S/N ratio	70 dB
Cartridge	VI-346
Tracking force	1.5–2.5 (2 g rec.)
Stylus	ND-1346
Wow and flutter	0.04% wrms
S/N ratio*	56 dB (normal), 58 dB (FCO)
Frequency response	30–17,000 Hz ± 3 dB (FCO)
System	30–17,000 Hz ± 3 dB (metal)
	Recommended speakers SS E50, E70

Handling power	400 watts
Impedance	8 ohms
Dimensions (approx.)	300 (W) x 500 (H) x 190 (D) mm
Weight (approx.)	5.4 kg
Power requirements	AC 240 V, 50 Hz
Power consumption	360 watts
Dimensions (approx.)	688 (W) x 160 (H) x 515 (D) mm
Weight (approx.)	24 kg
Supplied accessories	ribbon antenna, 45 rpm adapter

SS E20

Speaker systems	2-way, 2-speaker system
Drive units	Woofer 160 mm cone, tweeter 65 mm cone
Nominal impedance	8 ohms
Power handling	Nominal 25 watts, music 40 watts 91 dB (W) (m)
Sensitivity	60 Hz–20 kHz ± 4/–8 dB DIN
Frequency response	255 (W) x 490 (H) x 215 (D) mm
Dimensions (approx.)	6 kg
Weight (approx.)	

SS G1

Speaker system	3-way speaker system
Drive units	Woofer 250 mm, mid range 80 mm, tweeter 25 mm
Impedance	8 ohms
Power handling	55 watts nominal 35–20,000 Hz
Frequency response	600 Hz and 5 kHz (fixed)
Crossover frequency	Mid range (fixed)
Dimensions (approx.)	340 (W) x 595 (H) x 300 (D) mm
Weight (approx.)	13 kg

SS E50

Speaker systems	2-way, 2-speaker system
Drive units	Woofer 200 mm cone, tweeter 30 mm dome
Nominal impedance	8 ohms
Power handling	Nominal 45 watts, music 70 watts 91 dB (W) (m)
Sensitivity	40 Hz–20 kHz ± 4/–8 dB DIN
Frequency response	300 (W) x 650 (H) x 295 (D) mm
Dimensions (approx.)	10.6 kg
Weight (approx.)	

SS G3

Speaker system	3-way, infinite baffle
Drive units	Woofer 250 mm, mid range 80 mm, tweeter 50 mm
Impedance	8 ohms
Power handling	60 watts nominal 40–20,000 Hz
Frequency response	900 Hz and 5 kHz (fixed)
Crossover frequency	+3 dB to –47 dB (variable), +2 dB to –4 dB (variable)
Dimensions (approx.)	345 (W) x 615 (H) x 340 (D) mm
Weight (approx.)	17 kg

SS E70

Speaker systems	3-way, 3-speaker system
Drive units	Woofer 200 mm cone, mid range 80 mm cone, tweeter 20 mm dome
Nominal impedance	8 ohms
Power handling	Nominal 65 watts, music 100 watts 91 dB (W) (m)
Sensitivity	30 Hz–20 kHz ± 4/–8 dB DIN
Frequency response	300 (W) x 610 (H) x 280 (D) mm
Dimensions (approx.)	12 kg
Weight (approx.)	

SS G7

Speaker system	3-way, 3-speaker, bass reflex
Drive units	Woofer 380 mm, mid range 100 mm, tweeter 35 mm
Impedance	8 ohms
Power handling	100 watts nominal 30–20,000 Hz
Frequency response	550 Hz & 4.5 kHz at 12 dB/oct +0 to –4 dB (variable)
Crossover frequency	+0 to –4 dB (variable)
Dimensions (approx.)	510 (W) x 940 (H) x 445 (D) mm
Weight (approx.)	47 kg

*DIN 45–633, measured with Dobby off; Dobby an improvement 5 dB

at 1 kHz, more than 10 dB at 5 kHz

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Dealer

Spring 1980

Designed by Ronald Ward Design Ltd.
Printed in the Netherlands by Henkes Senefelder.