

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.



STR V3L/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.



STR V4L/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.



STR V5 / 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.



STR V6/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 pen 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.





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.

Fand Fhead.

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.

Fand Fhead.

Input selector for mic. and line.

Spring return rec. mute lever.











TCK55MkII/CASSETTE DECK

Micro processor, supervised feather touch function control.

Two motor tape transport systems, using BSL tri duty motor.

Sand Fhead.

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.











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.

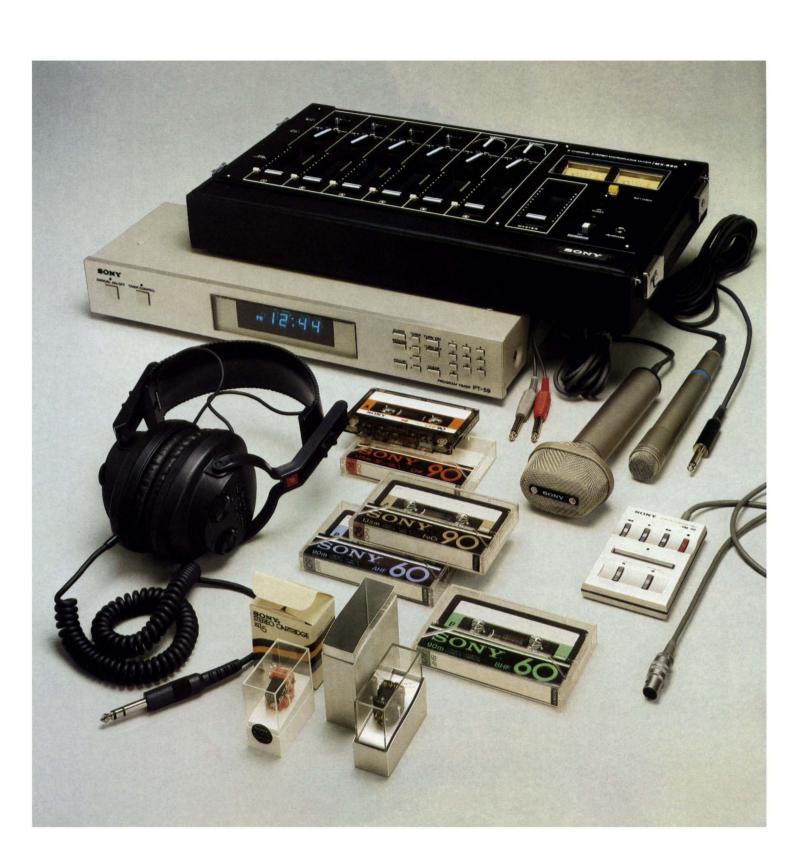
Remember, whatever hi-fi systems you have assembled, there is one golden rule; before you buy your speakers, listen to them. Your Sony dealer will be pleased to help. In many cases, optional speaker stands are available.





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 Semi-automatic	PS 333 Fully automatic	PS 636 Fully automatic	PST15 Semi-automatic	PSX35 Fully automatic
ds	331/s. 45 rpm	331/s, 45 rpm Linear BSL motor	331/s, 45 rpm	331/s, 45 rpm	33½, 45 rpm
d control range	Linear BSL motor ±3%	±6%	BSL DC servo motor ±6%	Linear BSL motor ±4%	Linear BSL motor Fixed
and flutter	0.03% wrms, ±0.045% DIN	0.03% wrms, ± 0.045% DIN	0.03% wrms, ±0.045% DIN	0.04% wrms, ± 0.065% DIN	0.03% wrms, ±0.05% DIN
ratio	70 dB DIN Static balance	70 dB DIN Static balance	70 dB DIN Static balance	68 dB DIN Static balance	73 dB DIN Static balance
all arm length	300 mm	216.5 mm	300 mm	300 mm	300 mm
s force adj. range weight	0-3 g 13 g (with cartridge)	0-3g 7.5g	0-3 g 7.5 g	0-3 g 7.5 g	0-3g 10.5g
idge weight range	4-12 g	4.5-11 g	4-12 g	4-10 g	12-18 g (with headshell)
nel separation	VL 33G Better than 20 dB at 1 kHz	VL 37G Better than 23 dB at 1 kHz	VL 34G Better than 25 dB	XL15 Better than 25 dB at 1 kHz	XL15 Better than 25 dB at 1 kHz
ut voltage	3.5 mV at 1 kHz	3 mV at 1 kHz	3 mV at 1 kHz	4 mV at 1 kHz	4 mV at 1 kHz
ting weight	2-3 g (2.5 g recommended) ND136G	2-3 g (2.5 g recommended) ND137G	2 g recommended ND 134G	1.7 g recommended	1.7 g recommended ND 15G conical, 0.6 mil diamond
s er requirements	AC 240 V, 50 Hz	AC 240V, 50 Hz	AC 240 V, 50 Hz	ND15G conical, 0.6 mil diamond AC 240 V, 50 Hz	AC 240V, 50 Hz
er consumption	6 watts	6 watts	6 watts	8 watts	8 watts
ensions ht	410 (W) x125 (H) x 370 (345) (D) mm 4.8 kg	430 (W) x 125 (H) x 365 (D) mm 5.3 kg	450 (W) x 135 (H) x 385 (D) mm 8 kg	445 (W) x 140 (H) x 375 (D) mm 5 kg	445 (W) x 140 (H) x 395 (D) mm 5.8 kg
	PSX40	PSX60	PSX70	PSP7X	PSB80
ds	Fully automatic 331/3, 45 rpm	Fully automatic 331/3, 45 rpm	Fully automatic 331/s, 45 rpm	Semi-automatic 331/a, 45 rpm	Fully automatic 331/3, 45 rpm
r	Linear BSL motor	Linear BSL motor	Linear BSL motor	Linear BSL DC servo motor	Linear BSL motor
d control range and flutter	Fixed 0.025% wrms, ±0.045% DIN	Fixed 0.025% wrms,±0.045% DIN	± 10% 0.025% wrms, ± 0.045% DIN	Fixed 0.025% wrms ±0.045% DIN	Fixed 0.02% wrms ±0.04% DIN
ratio	73 dB DIN	75 dB DIN	75 dB DIN	75 dB DIN	78 dB DIN
all a sea I	Static balance	Static balance	Static balance	Static balance	Biotracer (electronically controlled
all arm length s force adj. range	300 mm 0-3 g	330 mm 0-2.5 g	330 mm 0-2.5 g	300 mm 0-3 g	325 mm 0-5-3 g
weight	11 g	11 g	11 g	11 g	11 g
idge weight range	12 – 19 g (with headshell) Not supplied	11–19.5 g, 19–27.5 g (with extra weight) Not supplied	11-19.5 g, 19-27.5 g (with extra weight)	12-18.5 g, 18-24.5 g (with extra weight) XL 15	
ut voltage	not supplied	Hot supplied	Not supplied	4 mV at 1 kHz	Not supplied
S				ND 15G	CHARLES CARDSON
er requirements er consumption	AC 240V, 50 Hz 8 watts	AC 240 V, 50 Hz 12 watts	AC 240 V, 50 Hz 12 watts	AC 240V, 50 Hz (AC 220 V, selectible internally)	AC 110-120, 220-240 V, 50/60 H. 26 watts
nsions	445 (W) x 145 (H) x 400 (D) mm	480 (W) x 165 (H) x 420 (D) mm	480 (W) x 165 (H) x 420 (D) mm	430 (W) x 110 (H) x 345 (D) mm	500 (W) x175 (H) x 430 (D) mm
nt	8 kg ST 212AL	12 kg	13 kg	9.5 kg	15 kg
itivity	3µV (IHF)	ST 333L 1.9 µV (IHF)	ST 636 1.8 µV (IHF)	STA30L 1.8µV (IHF)	ST J60 18µV (IHF)
ratio	70 dB (mono), 65 dB (stereo)	75 dB (mono), 70 dB (stereo)	75 dB (mono), 70 dB (stereo)	65 dB (mono), 60 dB (stereo)	68 dB (mono), 64 dB (stereo)
ure ratio ctivity	2.5 dB	1.0 dB 55 dB	1 dB 57 dB	1 dB 50 dB (300 kHz), 75 dB (400 kHz)	1 dB 80 dB at 300 kHz
e rejection	40 dB	45 dB	80 dB	50 dB (300 kHz), 75 dB (400 kHz)	85 dB
ection	80 dB		70 dB	95 dB	95 dB
ious rejection uppression	49 dB	80 dB 50 dB	90 dB 54 dB	75 dB 54 dB	100 dB 60 dB
uency 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+1/-2 dB	30-15,000 Hz + 0.2/-0.5 dB
al terminals nonic distortion	300 ohms balanced, 75 ohms unbalance 0.5% (mono), 0.8% (stereo)	ced 300 ohms balanced, 75 ohms unbalance 0,15% (mono), 0,3% (stereo)	d 300 ohms balanced, 75 ohms unbalance 0.1% (mono), 0.2% (stereo)	ced 300 ohms balanced, 75 ohms unbalance 0.15% (mono), 0.4% (stereo) at 1 kHz	ed 300 ohms balanced, 75 ohms unb Mono Stereo 100 Hz 0.1% 0.3% 1 kHz 0.1% 0.2% 10 kHz 0.1% 0.5%
eo separation	30 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	35 dB (100 Hz), 45 dB (1 kHz), 32 dB (10 kHz)	100 Hz 48 dB 1 kHz 50 dB 10 kHz 40 dB
ng range	MW 530-1605 kHz	MW 530-1605 kHz	MW 530-1605 kHz	MW 530-1605 kHz	
	LW 150 – 350 kHz SW 5.8 – 15.8 MHz	LW 150-350 kHz SW 5.8-15.8 MHz		LW150-350 kHz	
itivity	MW 389 µV/m built-in, 125 µV external aerial; LW 1250 µV/m built-in, 398 µV external aerial; SW 55 µV external aeria	MW 250 μV/m built-in, 100 μV/m externa LW 500 μV/m built-in, 100 μV/m external		MW 250μV/m built-in, 100μV external LW 500μV/m built-in, 100μV external	
ctivity	NAME OF TAXABLE PARTY.	50 dB (MW, LW)	50 dB	45 dB (MW, LW)	
ratio nonic distortion	38 dB (MW, LW, SW) 1%	52 dB (MW, LW, SW) 0.3% (at 400 Hz)	52 dB 0.3% (at 400 Hz)	50 dB (MW, LW) 0.5% (MW, LW)	HOUSE STORESTON
er requirements	AC 240 V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	AC 240 V, 50 Hz	AC 110, 127, 220, 240 V, 50/60 Hz
er consumption ensions (approx.)	14 watts 407 (W) x 150 (H) x 300 (D) mm	10 watts 430 (W) x130 (H) x 290 (D) mm	28 watts 430 (W) x 130 (H) x 311 (D) mm	7 watts 430 (W) x 80 (H) x 275 (D) mm	13 watts 430 (W) x 80 (H) x 310 (D) mm
ht (approx.)	4.6 kg	5.2 kg	6.2 kg	3.6 kg	4.5 kg
ation to a	STP7J	ST A7B	ST J88		
ratio	1.8 µV (IHF) 68 dB (mono), 64 dB (stereo)	1.5µV (IHF) 80 dB (mono) 75 dB (stereo)	3.2µV (50 dB) 75 dB (mono), 70 dB (stereo)		
ure ratio	1dB	0.8 dB (normal, 1.8 dB (narrow)	1 dB/1.7 dB (normal/narrow)		
ctivity e rejection	80 dB at 300 kHz 85 dB	300 kHz, 26 dB (normal), 76 dB (narrow 90 dB			ACCORDANGE STREET
ection	95 dB	120 dB	110 dB		
ious rejection	100 dB	120 dB	110 dB		PARTICIPATION OF ME
uppression uency response	60 dB 30 Hz-15 kHz + 0.2/-0.5 dB	60 dB 20 Hz-15 kHz+0.2/ dB	60 dB 30-15,000 Hz+0.2 dB/0.5 dB		
Iterminals	300 ohms balanced, 75 ohms unbaland	cer 300 ohms balanced, 75 ohms unbalance	ed 300 ohms balanced, 750 ohms unbalan	nced	
nonic distortion	Mono Stereo 100 Hz 0.1% 0.3%	Mono Stereo 100 Hz 0.04% 0.08%	(normal/narrow) Mono Stereo		Market School Street
	100 Hz 01% 0.3% 1 kHz 0.1% 0.2%	1 kHz 0.04% 0.08%	100 Hz 0.04%/- 0.07% 1KHz 0.04%/- 0.07%		
	10 kHz 0.1% 0.5%	10 kHz 0.05% 0.3%	10 KHz 0.04%/- 0.15%		
eo separation	48 dB at 100 Hz, 50 dB at 1 kHz,	100 Hz 50 dB	(normal/narrow)		
to separation	100 Hz 48 dB	100 Hz 50 dB	(normal/narrow) 100 Hz 50 dB/45 dB		
DEVELOPMENT OF THE PARTY OF THE	1 kHz 50 dB	1 kHz 55 dB	1KHz 50 dB/45 dB		
	10 kHz 40 dB AC 240 V, 50 Hz	10 kHz 40 dB AC 240 V, 50 Hz	10 KHz 45 dB/40 dB AC 110, 120, 220, 240V, 50/60 Hz		
er requirements					
er requirements er consumption	13 watts	45 watts	25 watts		
		45 watts 430 (W) x170 (H) x 420 (D) mm 141 kg	480 (W) x 80 (H) x 370 (D) mm 6.7 kg	THE REPORT OF THE PARTY OF THE	

ated output (rms)	TA 212A 20 watts per channel (20 Hz-20 kHz,	TA 333 25 watts per channel (20 Hz-20 kHz,	TA 535 40 watts per channel (20 Hz-20 kHz,	TA 636 60 watts per channel (20 Hz-20 kHz,	TAF30 30 watts per channel (20 Hz-20 kHz,
ower bandwidth	8 ohms)	8 ohms)	8 ohms) 15–30,000 Hz	8 ohms) 10 Hz-50 kHz	8 ohms) 20–20,000 Hz
armonic distortion	15–20,000 Hz 0.7% at rated output	15-30,000 Hz 0.3% at rated output	0.05% at rated output	0.05% at rated output	0.05% at rated output
distortion amping factor	0.7% at 1 watt 30 (8 ohms) at 1 kHz	0.3% at rated output 30 (8 ohms) at 1 kHz	0.05% at rated output 30 (8 ohms) at 1 kHz	0.05% at rated output 50 (8 ohms) at 1 kHz	0.02% at rated output 40 (8 ohms) at 1 kHz
puts	Impedance Sensitivity	Impedance Sensitivity	Impedance Sensitivity	Impedance Sensitivity	Impedance Sensitivity
Phono (headamp) Mic.	47 k ohms 2.5 mV 600 ohms 2.5 mV	50 k ohms 2.5 mV 10 k ohms 2 mV	50 k ohms 2.5 mV 10 k ohms 2 mV	50 k ohms 2.5 mV 10 k ohms 2 mV	50 k ohms 2.5 mV
High level inputs	47 ohms 150 mV	50 k ohms 150 mV	50 k ohms 150 mV	50 k ohms 150 mV	50 k ohms 140 mV Impedance Output level
Rec. out	Impedance Output level 18 k ohms 140 mV	Impedance Output level 10 k ohms 150 mV	Impedance Output level 10 k ohms 150 mV	Impedance Output level 10 k ohms 150 mV	Impedance Output level 4.7 k ohms 140 mV
Headphone requency response	8 ohms Phono RIAA equalisation curve±0.5 dB,	8 ohms Phono RIAA equalisation curve ± 0.5 dB,	8 ohms Phono RIAA equalisation curve ± 0.3 dB	8 ohms Phono RIAA equalisation curve± 0.3 dB,	Phono RIAA equalisation curve ±0.3 d
NAME OF TAXABLE PARTY.	40 Hz-40 kHz ±3 dB tuner, tape	20 Hz-50 kHz+0/-3 dB tuner, tape	20 Hz-50 kHz+0/-1 dB tuner, aux, tap	e 20 Hz-50 kHz+0/-1 dB tuner, aux, tap	e 5-60 kHz+0/-2 dB tuner, aux, tape
oudness control /N ratio	+7 dB at 50 Hz Phono, mic 70 dB, tape 85 dB	+4 dB at 100 Hz Phono 70 dB, tape 90 dB	+9 dB at 100 Hz Phono 80 dB, tape 95 dB	+8 dB at 100 Hz Phono 80 dB, tape 95 dB	+8 dB at 100 Hz, +4 dB at 10 kHz Phono 80 dB, others 100 dB
BNEWSTER		NUMBER OF STREET			A STATE OF THE PARTY OF THE PAR
ower requirements ower consumption	AC 240V, 50 Hz 120 watts	AC 240 V, 50 Hz 240 watts	AC 240V, 50 Hz 360 watts	AC 240 V, 50 Hz 480 watts	AC 240V, 50Hz 200 watts
mensions (approx.) eight (approx.)	407 (W) x150 (H) x 300 (D) mm 5.1 kg	430 (W) x 130 (H) x 290 (D) mm 6.2 kg	430 (W) x 130 (H) x 300 (D) mm 81 kg	430 (W) x 130 (H) x 300 (D) mm 8.8 kg	430 (W) x 80 (H) x 295 (D) mm 5.8 kg
	TAF40	TAF60	TAF70	TAP7F	
ated output (rms)	50 watts per channel (20 Hz-20 kHz, 8 ohms)	75 watts per channel (20 Hz-20 kHz, 8 ohms)	90 watts per channel (20 Hz-20 kHz, 8 ohms)	50 watts per channel (20 Hz – 20 kHz, 8 ohms)	
ower bandwidth	5-30,000 Hz	5-30,000 Hz	5 Hz-30 kHz	5-30,000 Hz	STATE OF THE PARTY.
armonic distortion I distortion	0.01% at rated output 0.01% at rated output	0.01% at rated output 0.01% at rated output	0.007% at rated output 0.007% at rated output	0.01% at rated output 0.01% at rated output	
amping factor	50 (8 ohms) at 1 kHz	40 (8 ohms) at 1 kHz	100 (8 ohms) at 1 kHz	50 (8 ohms) at 1 kHz	
Phono (headamp)	Impedance Sensitivity 50kohms(100ohms) 2.5 mV (0.25 mV)	Impedance Sensitivity 50kohms(100ohms) 2.5 mV (0.25 mV)	Impedance Sensitivity 50 k ohms (100 ohms) 2.5 mV (0.125 mV	Impedance Sensitivity) 50kohms (100 ohms) 2.5 mV (0.25 mV)	
Mic. High level inputs	50 k ohms 150 mV	50 k ohms 150 mV	50 k ohms 150 mV	60 k ohms 150 mV	
utput	Impedance Output level	Impedance Output level	Impedance Output level	Impedance Output level	ESPECIAL SERVICE TO A TOTAL OF
Rec. out Headphone	6 k ohms 150 mV 8 ohms	4.7 k ohms 150 mV 8 ohms	4.7 k ohms 150 mV 8 ohms	4.7 k ohms 150 mV 8 ohms	
requency response	Phono RIAA equalisation curve±0.2 dB	Phono RIAA equalisation curve±0.2 dB	Phono RIAA equalisation curve ± 0.2 dB	Phono RIAA equalisation curve ±0.2 dB,	to the second second
oudness control	5-70 kHz+0/—1 dB tuner, aux, tape +10 dB at 100 Hz, +3 dB at 10 kHz	3-70 kHz+0/-1 dB tuner, aux, tape +10 dB at 60 Hz, +6 dB at 25 kHz	DC - 100 kHz+0/—1 dB tuner, aux, tape	5-60 kHz+0/-1 dB tuner, aux, tape +6 dB at 10 kHz	THE RESIDENCE OF THE PROPERTY.
/N ratio	Phono 88 dB (headamp 75 dB), others	Phono 88 dB (headamp 75 dB), others 100 dB	Phono 88 dB (headamp 78 dB), others 105 dB	Phono 1, 2 88 dB, headamp 75 dB, others 100 dB	S
ower requirements	100 dB AC 240 V, 50 Hz	AC 240 V, 50 Hz	AC 240V, 50 Hz	AC 240V, 50 Hz	
ower consumption imensions (approx.)	240 watts 430 (W) x 80 (H) x 335 (D) mm	420 watts 430 (W) x155 (H) x 340 (D) mm	420 watts 430 (W) x 160 (H) x 410 (D) mm	280 watts 215 (W) x 80 (H) x 300 (D) mm	
leight (approx.)	4.2 kg	6.7 kg	8.7 kg	3.7 kg	
ated output (r.m.s.)	TA N7B 100 w/ch 20 Hz - 20 kHz 8 ohms	TA N86B 80 w/ch (class B), 18 w/ch (c	TA N88B class A), 120 w (mono). 200 w/ch 1	kHz8ohms;160 w/ch	NAME OF TAXABLE PARTY.
	建立共享企业的企业企业	all at 20 Hz - 20 kHz, 8 ohms	s 20Hz-20	kHz8ohms	
ower bandwidth larmonic distortion	5-35,000 Hz r.m.s. output Bandwidth	5-45,000 Hz (B), 5-60,00 r.m.s. output class (20 Hz		5% at rated output	
	20 Hz - 20 kHz 5 Hz	z-50 kHz A	B mono less than 0.	2% at 1 W output	
	100 Woutput 0.01% 0.05 10 Woutput 0.008% 0.02		0.007% 0.015% 0.0035% 0.008%		
M distortion	1Woutput 0.008% 0.02 100Woutput 0.01%	2% 1 Woutput 0.001% rated output 0.004%	0.003% 0.008% 0.004% 0.005% less than 0.	1% at rated output	
measured at	10 W output 0.008%	10 Woutput 0.002%	0.003% 0.004% less than 0.	1% at 1 W output	THE RESIDENCE OF THE PARTY OF
0 Hz/7 kHz) requency response	1W output 0.008% DC -100,000 Hz +0/-1 dB (direct coupled)	1 Woutput 0.002% led) DC-200,000 Hz+0/-1 dB	0.003% 0.004% 5 - 40,000	Hz +0.5/-1 dB	
Service of the Service	6-100,000 Hz +0/-1 dB (C. coupled)	7-200,000 Hz+0/-1 dB (0 70 (8 ohms) at 1 kHz		Not16Ha	
amping factor /N ratio	100 (8 ohms) at 1 kHz 120 dB (short circuit inputs, A network)	120 dB (short circuit inputs,	20 (8 ohms A network) 110 dB (sho	rt circuit inputs, A network)	
nput terminals nput sensitivity &	Direct and C. coupled (cut off 3 Hz) 1.3 V (rated output/50 k ohms)	Direct and C. coupled 11V (rated output/50 k ohm	ns /class R) 1 A V (rated	output/50 k ohms)	
npedance	1.5 v (rated output/ 30 k offilis)	LT V (rated output) 50 K Onn		PROPERTY AND ADDRESS OF THE PARTY.	
	WAS THE RESIDENCE	THE RESERVE OF THE PARTY OF THE		width modulation system,	
ircuit system	Pure complementary V-FET, cascode SEP				
Power requirements	AC 240 V, 50 Hz	power amp. AC 240 V, 50 Hz	500 kHz ca AC 240 V, 5	rrier wave	
circuit system	AC 240 V, 50 Hz 480 watts	power amp. AC 240 V, 50 Hz 450 watts	500 kHz ca AC 240 V, 5 550 watts	rrier wave 0 Hz	
Power requirements Power consumption	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 20.1 kg	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg	500 kHz ca AC 240 V, E 550 watts mm 480 (W) x 8 13 kg	rrier wave	
Power requirements Power consumption Dimensions (approx.) Veight (approx.)	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TA E7B	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r	500 kHz ca AC 240 V, 9 550 watts 480 (W) x8 13 kg TA E88B	rrier wave 0 Hz 30 (H) x 360 (D) mm	
ower requirements lower consumption bimensions (approx.) Weight (approx.)	AC 240 V, 50 Hz 480 watts 430 (M) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B vacitance Impedance Sensitivii pF (140 pF) 100/50/25 2.5 mV	500 kHz ca AC 240 V, 5 550 watts mm 480 (M) x 6 13 kg TA E88B ty Capacitance Impedance 100 pF 50 k ohms	rrier wave 0 Hz 10 (H) x 360 (D) mm Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF	
ower requirements ower consumption imensions (approx.) //eight (approx.) aputs Phono 1 (2) Head amp.	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3.40 ohms 0.125 mV	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit pf (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 0.125 mV	500 kHz ca AC 240 V, 5 550 watts mm 480 (W) x8 13 kg TA E88B Impedance 100 pF 50 k ohms 10 - 100 k 3/40 ohms	rrier wave 0 Hz	
ower requirements ower consumption imensions (approx.) deight (approx.) puts Phono 1 (2) Head amp. High level inputs	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 20.1 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms)	power amp. AC 240 V, 50 Hz 450 watts 480 (M) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms	500 kHz ca AC 240 V, £ 550 watts 480 (W) x £ 13 kg TA E88B Impedance 100 pF 50 k ohms (10 - 100 k) 3 / 40 ohms 50 k ohms	O Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF 100 - 500 pFt 150 mV (aux 250 mV))
ower requirements ower consumption imensions (approx.) pleight (approx.) puts Phono 1 (2) Head amp. High level inputs utputs Rec. out	AC 240 V, 50 Hz 480 watts 430 (W) x170 (H) x 335 (D) mm 20.1 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Pacitance Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 0.125 mV Impedance Output le 10 k ohms 150 mV	500 kHz ca AC 240 V, 5 550 watts mm 480 (M) x8 13 kg TA E88B Impedance 100 pF 50 k ohms (I0 –100 k) 3 / 40 ohms 50 k ohms evel Impedance 1 k ohms	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF ohms*) (100 – 500 pFt 0.125 mV 150 mV (aux 250 mV) Output level 150 mV)
ower requirements ower consumption imensions (approx.) reight (approx.) re	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV Impedance Output level	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B vacitance Impedance Sensitivii pf (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output le	500 kHz ca AC 240 V, 5 550 watts mm 480 (W) x 4 13 kg TA E88B ty Capacitance Impedance 100 pF 50 k ohms (10 - 100 k) 3/40 ohms 50 k ohms evel Impedance	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF 0 125 mV 150 mV (aux 250 mV) Output level)
ower requirements ower consumption imensions (approx.) deight (approx.) de	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TA E7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.003% at rated output	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivii pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 150 mV 8 ohms 0.003% at rated output	500 kHz ca AC 240 V, 5 550 watts mm 480 (W) x 6 13 kg TA E88B ty Capacitance Impedance 100 pF 50 k ohms 10 - 100 kr 3 / 40 ohms 50 k ohms 100 ohms 100 ohms 8 ohms 0,002% at	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF ohms*) (100 – 500 pF† 0.125 mV 150 mV (aux 250 mV) Output level 150 mV 1.5 V)
ower requirements ower consumption imensions (approx.) feight (approx.) feight (approx.) Head amp. High level inputs utputs Pre out Pre out Headphones farmonic distortion M distortion hono overload	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.03% at rated output 0.003% at rated output Phonol, 2 250 mV, head amp 12.5 mV	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output Phono 1 250 mV, head amp]	500 kHz ca AC 240 V, 2 550 watts 480 (W) x 4 13 kg TA E88B Impedance 100 pF 50 k ohms (10 – 100 k / 3/40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% at 12.5 mV	Sensitivity	
ower requirements ower consumption imensions (approx.) leight (approx.) le	AC 240 V, 50 Hz 480 watts 430 (M) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phonol, 2 R1AA equalisation curve ± 0.2	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1.25 mV, head amp.1	500 kHz ca AC 240 V, 2 AC 240 V, 2 S550 watts Mm 480 (W) x 8 13 kg TA E88B ty Capacitance Impedance 100 pF 50 k ohms 100 -100 k; / 3/40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% at 0.002% at 12.5 mV Phono 1, 21 recrive ± 0.2 dB, Phono 1, 21	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF 0 100 – 500 pF1 0 100 mV (aux 250 mV) 0 utput level 150 mV 1.5 V 10V 00V 250 mV, Phono 1, 2 head amp 12.5 mV 8AA equalisation curve ± 0.2 dB,	
ower requirements ower consumption imensions (approx.) //eight (ap	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1, 2 250 mV, head amp 12.5 mV Phono 1, 2 RIAA equalisation curve ± 0.2 1-150,000 Hz +0/-1 dB tuner, aux, tape ±10 dB at 25/50 Hz, ± 10 dB at 20/40 V	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output Phono 1 250 mV, head amp. 1dB, Phono 1, 2 RIAA equalisation 5 5 500,000 Hz + 0/-1 dB te kHz	500 kHz ca AC 240 V, £ 550 watts 480 (W) x £ 13 kg TA E88B Impedance 100 pF 50 k ohms (I0 - 100 k) / 3/40 ohms 50 k ohms 10 ohms 8 ohms 0.002% at	Column	
ower requirements ower consumption imensions (approx.) reight (approx.) re	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 20.1 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1, 2 RIAA equalisation curve ± 0.2 1-150,000 Hz +0/-1 dB tuner, aux, tape ±10 dB at 25/50 Hz, ±10 dB at 20/40 k 12 dB at 30 Hz, ±12 dB at 9 kHz	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit bons 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output le 10 k ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1.250 mV, head amp. 1dB, Phono 1, 2 RIAA equalisation 5 - 500,000 Hz+0/-1 dB t KHz (phono only) 12 dB at 15 H	500 kHz ca AC 240 V, 2 550 watts 480 (W) x 4 13 kg TA E88B Impedance 100 pF 50 k ohms (10 - 100 k / 3 / 40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% at 0.002% at 12.5 mV Phono 1, 2 i curve ± 0.2 dB, Phono 1, 2 i uner, aux, tape DC - 500,0	Comparison	
Provide the control of the control o	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 0.03% at rated output 0.003% at rated output Phonol, 2 250 mV, head amp 12.5 mV Phonol, 2 RIAA equalisation curve ± 0.2 1 - 150,000 Hz + 0/- 1 dB tuner, aux, tape ± 10 dB at 25/50 Hz, ± 10 dB at 20/40 k 12 dB at 30 Hz, 12 dB at 9 kHz Phonol, 2 85 dB, head amp 75 dB, other 20 - 70,000 Hz + 0/- 3 dB	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit bons 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output le 10 k ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1.250 mV, head amp. 1dB, Phono 1, 2 RIAA equalisation 5 - 500,000 Hz+0/-1 dB t KHz (phono only) 12 dB at 15 H	500 kHz ca AC 240 V, 2 550 watts 480 (W) x 4 13 kg TA E88B Impedance 100 pF 50 k ohms (10 - 100 k / 3 / 40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% at 0.002% at 12.5 mV Phono 1, 2 i curve ± 0.2 dB, Phono 1, 2 i uner, aux, tape DC - 500,0	Column	
Provided the second of the sec	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3.40 ohms 0.125 mV 150 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 1.5 V 7 k ohms 1.5 V 8 ohms 1.5 V 9 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 1.5 V 9 k ohms 1.5 V 8 ohms 1.5	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 0.125 mV Impedance Outputle 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1, 2 RIAA equalisation 5 - 500,000 Hz + 0/-1 dB t kHz (phono only) 12 dB at 15 H \$105 dB Phono 87 dB, head amp 78	500 kHz ca AC 240 V, 2 550 watts 480 (W) x 4 13 kg TA E88B Impedance 100 pF 50 k ohms (10 - 100 k / 3 / 40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% at 0.002% at 12.5 mV Phono 1, 2 i curve ± 0.2 dB, Phono 1, 2 i uner, aux, tape DC - 500,0	Comparison	
Provide the control of the control o	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE 7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.03% at rated output 0.003% at rated output 0.003% at rated output Phono 1, 2 RAA equalisation curve ± 0.2 1-150,000 Hz +0/-1 dB funer, aux, tape ±10 dB at 25/50 Hz, ±10 dB at 20/40 k 12 dB at 30 Hz, 12 dB at 9 kHz Phono 1, 2 R5 dB, head amp 75 dB, other 20-70,000 Hz +0/-3 dB average 300 ms, peak I ms -40 dB to +10 dB (0dB = 1 Vrms METEF -60 dB to -10 dB (0dB = 1 Vrms METEF	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit bons 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 1.5V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1.250 mV, head amp. 10 dB, Phono 1, 2 RIAA equalisation 5 5 - 500,000 Hz + 0/- 1 dB tkHz (phono only) 12 dB at 15 H rs 105 dB Phono 87 dB, head amp 78	500 kHz ca AC 240 V, 2 550 watts 480 (W) x 4 13 kg TA E88B Impedance 100 pF 50 k ohms (10 - 100 k / 3 / 40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% at 0.002% at 12.5 mV Phono 1, 2 i curve ± 0.2 dB, Phono 1, 2 i uner, aux, tape DC - 500,0	Comparison	
Provided in the control of the contr	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 20.1 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output 0.003% at rated output Phono 1, 2 RIAA equalisation curve ± 0.2 1-150,000 Hz + 0/- 1 dB tuner, aux, tape ±10 dB at 25/50 Hz, ±10 dB at 20/40 k 12 dB at 30 Hz, 12 dB at 9 kHz Phono 1, 2 85 dB, head amp 75 dB, other 20-70,000 Hz + 0/- 3 dB average 300 ms, peak I ms -40 dB to +10 dB (0dB = 1 Vrms METEF -60 dB to -10 dB (0dB = 1 Vrms METEF -10 dB to +10 dB (0dB = 1 Vrms METEF -10 dB to +10 dB db ±0.5 dB -30 dB to -10 dB ±0.5 dB	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TAE86B Impedance Sensitivit bons 3/40 ohms 0.125 mV 50 k ohms 150 k ohms 150 mV Impedance Output le 10 k ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1 250 mV, head amp 1 dB, Phono 1, 2 RIAA equalisation 5 - 500,000 Hz + 0/- 1 dB t kHz (phono only) 12 dB at 15 H \$105 dB Phono 87 dB, head amp 78	500 kHz ca AC 240 V, 2	Sensitivity	
Provide the control of the control o	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE 7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 1.5 V 8 ohms 1.5 V 1.5 k ohms 1.5 V 1.5 k ohms 1.5 V 8 ohms 1.5 V 1.5 k ohms 1.5 V 8 ohms	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivi pF (140 pF) 100 / 50 / 25 2.5 mV k ohms 3 / 40 ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 150 mV 100 ohms 150 mV 20 ohms 150 mV 100 ohms 150 mV 8 ohms 0.003% at rated output Phono 1 250 mV, head amp 1 8 dB, Phono 1, 2 RIAA equalisation 10 ohms 150 mV and 10 mV and	500 kHz ca AC 240 v, 5 550 watts and 480 (W) x 13 kg TA E88B Impedance 100 pF 50 k ohms (I) -100 km 50 k ohms 100 ohms 8 ohms 100 ohms 8 ohms 100 ohms 8 ohms 20,002% at 0,002%	Sensitivity	
requirements rower requirements rower consumption rower consumptio	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 20.1 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 0.03% at rated output Phono 1, 2 250 mV, head amp 12.5 mV Phono 1, 2 RIAA equalisation curve ± 0.2 1-150,000 Hz +0/-1 dB tuner, aux, tape 10 dB at 25/50 Hz, ± 10 dB at 20/40 k 12 dB at 30 Hz, 12 dB at 9 kHz Phono 1, 2 85 dB, head amp 75 dB, other 20-70,000 Hz +0/-3 dB average 300 ms, peak I ms -40 dB to +10 dB (0 dB = 1 Vrms METEF -60 dB to -10 dB (0 dB = 1 Vrms METEF -10 dB to +10 dB ±0.5 dB -30 dB to -10 dB ±1.5 dB Low noise head amp, direct coupled eq. ar CR tone controls (with defeat), SEPPOTL	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 0.125 mV Impedance Outputle 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1.250 mV, head amp. dB, Phono 1, 2 RIAA equalisation 15 cy 8 ohms 150 mV 16 phono 1, 2 RIAA equalisation 16 phono 1, 2 RIAA equalisation 17 phono 1, 2 RIAA equalisation 18 phono 1, 2 RIAA equalisation 19 phono 1, 2 RIAA equalisation 19 phono 1, 2 RIAA equalisation 19 phono 1, 2 RIAA equalisation 10 phono 87 dB, head amp 78 105 dB Phono 87 dB, head amp 78	500 kHz ca AC 240 V, 2 550 watts Mm 480 (W) x 13 kg TA E88B Impedance 100 pF 50 k ohms (10 - 100 k, 10 k) 50 k ohms 100 ohms 8 ohms 0.002% at 0.00	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF (100 – 500 pFf 0.125 mV 150 mV (aux 250 mV) 0 utput level 150 mV 1.5 V 100 V 00 V 00 V 00 AAA equalisation curve ± 0.2 dB, 00 Hz + 0/- 1 dB tuner, aux, tape v) 12 dB at 15 Hz 88 dB, head amp 80 dB, others 105 dB	
Power requirements Power consumption Power requirements Power requirements	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE 7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3.40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 20.003% at rated output 0.003% at rated output Phonol, 2 250 mV, head amp 12.5 mV Phonol, 2 RIAA equalisation curve ± 0.2 1-150,000 Hz +0/-1 dB tuner, aux, tape ±10 dB at 25/50 Hz, ±10 dB at 20/40 k 12 dB at 30 Hz, 12 dB at 9 kHz Phonol, 1 2 85 dB, head amp 75 dB, other 20-70,000 Hz +0/-3 dB average 300 ms, peak 1 ms -40 dB to +10 dB (0 dB = 1 Vrms METEF -60 dB to -10 dB (0 dB = 1 Vrms METEF -10 dB to +10 dB (0 dB = 1 Vrms METEF -10 dB to +10 dB (0 dB = 1 Vrms METEF -10 dB to +10 dB (0 dB = 1 Vrms METEF -10 dB to +10 dB (0 dB = 1 Vrms METEF -10 dB to +10 dB ±0.5 dB -30 dB to 10 dB ±1.5 dB Low noise head amp, direct coupled eq. ar CR tone controls (with defeat), SEPPOTL	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivi pF (140 pF) 100 / 50 / 25 2.5 mV k ohms 3 / 40 ohms 150 mV Impedance Jo utput le 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output 0.003% at rated output Phono 1 250 mV, head amp J 6 dB, Phono 1, 2 RIAA equalisation 5 - 500,000 Hz + 0 / - 1 dB t kHz (phono only) 12 dB at 15 H s 105 dB Phono 87 dB, head amp 78 R SENS. Min.) R SENS. Max.) AC 240 V, 50 Hz	S00 kHz ca	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF (100 – 500 pFf 0.125 mV 150 mV (aux 250 mV) 0 utput level 150 mV 1.5 V 100 V 00 V 00 V 00 AAA equalisation curve ± 0.2 dB, 00 Hz + 0/- 1 dB tuner, aux, tape v) 12 dB at 15 Hz 88 dB, head amp 80 dB, others 105 dB	
ower requirements ower requirements ower consumption imensions (approx.) weight (approx.) height (approx.) height (approx.) head amp. High level inputs butputs Rec. out Pre out Headphones darmonic distortion M distortion front overload requency response fone controls dilters S/N ratio requency response tittack time indication range circuit system	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 0.03% at rated output 0.003% at rated output Phono 1, 2 250 mV, head amp 12.5 mV Phono 1, 2 RIAA equalisation curve ± 0.2 1-150,000 Hz ± 0/-1 dB tuner, aux, tape ± 10 dB at 25/50 Hz, ± 10 dB at 20/40 k 12 dB at 30 Hz. 12 dB at 9 kHz Phono 1, 285 dB, head amp 75 dB, other 20-70,000 Hz ± 0/-3 aB average 300 ms, peak 1 ms 40 dB to ± 10 dB (0dB ± 1 Vrms METER—10 dB to ±10 dB (0dB ± 1 Vrms METER—10 dB to ±10 dB ±1.5 dB -30 dB to ±10 dB ±1.5 dB	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivit pF (140 pF) 100/50/25 2.5 mV k ohms 3/40 ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 1.5 V 8 ohms 0.003% at rated output Phono 1.250 mV, head amp. 100 ohms 1.5 V 8 ohms 0.003% at rated output Phono 1.250 mV, head amp. 25 -500,000 Hz +0/-1 dB t 8 tell 26 (phono only) 12 dB at 15 H 27 s 105 dB Phono 87 dB, head amp. 78 R SENS. Min.) R SENS. Min.) R SENS. Min.) The ad amp. AC 240 V, 50 Hz 15 watts 480 (W) x 80 (H) x 370 (D) r 450 mg 450 mg 450 mg 450 mg 15 watts 480 (W) x 80 (H) x 370 (D) r	500 kHz ca AC 240 V, ± 550 watts A80 (M) x 4 13 kg TA E88B Impedance 100 pF 50 k ohms (I0 - 100 k) 7 3 /40 ohms 50 k ohms 100 ohms 8 ohms 0.002% at 0.002% a	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF (100 – 500 pFf 0.125 mV 150 mV (aux 250 mV) 0 utput level 150 mV 1.5 V 100 V 00 V 00 V 00 AAA equalisation curve ± 0.2 dB, 00 Hz + 0/- 1 dB tuner, aux, tape v) 12 dB at 15 Hz 88 dB, head amp 80 dB, others 105 dB	
ower requirements ower consumption imensions (approx.) //eight (ap	AC 240 V, 50 Hz 480 watts 430 (W) x 170 (H) x 335 (D) mm 201 kg TAE7B Impedance Sensitivity Cap 50 k ohms 2.5 mV (2.5 mV) 100 (50/100 k ohms) 3/40 ohms 0.125 mV 50 k ohms 150 mV Impedance Output level 1 k ohms 150 mV 1.5 k ohms 150 mV 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 1.5 V 9 ohms 1.5 W 1.5 k ohms 1.5 W 1.5 k ohms 1.5 V 1.5 k ohms 1.5 V 8 ohms 1.5 V 1.5 k ohms 1.5 V 8 ohms 1.5 V 1.5 k ohms 1.5 V 8 ohms 1.5 V 8 ohms 1.5 V 1.5 k ohms 1.5 V 8 ohms 1.5 V	power amp. AC 240 V, 50 Hz 450 watts 480 (W) x 80 (H) x 380 (D) r 8 kg TA E86B Impedance Sensitivi pF (140 pF) 100 / 50 / 25 2.5 mV k ohms 3 / 40 ohms 150 mV Impedance Output le 10 k ohms 150 mV 100 ohms 150 mV 100 ohms 150 mV 2 8 ohms 0 .003% at rated output 0 .003% at rated output Phono 1 250 mV, head amp. 10 kdB, Phono 1, 2 RIAA equalisation 2 5 - 500,000 Hz + 0 / -1 dB tkHz (phono only) 12 dB at 15 H 15 105 dB Phono 87 dB, head amp 78 R SENS. Min.) R SENS. Min.) R SENS. Min.) R SENS. Min.) R AC 240 V, 50 Hz 15 watts	500 kHz ca AC 240 v, £ 22 watts mm 500 kHz ca AC 240 v, £ 22 watts mm 550 watts A80 (W) x £ 13 kg TA E88B Impedance 100 pF 50 k ohms (IO -100 k) / 3 /40 ohms (IO -100 k) / 50 k ohms (IO -100	rrier wave 0 Hz Sensitivity Capacitance 2.5 mV (2.5 mV) 100 pF (100 – 500 pFt) 150 mV (aux 250 mV) Output level 150 mV 1.5 V 10 V 10 V 10 V 10 AA equalisation curve ± 0.2 dB, 00 Hz + 0/- 1 dB tuner, aux, tape (1) 12 dB at 15 Hz 18 dB, head amp 80 dB, others 105 dB	

	STR 232L 20 w/ch (1 kHz, 8 ohr	ms)	STR 333L 25 w/ch (20 Hz-20		STR 434L 40 w/ch (20 Hz-2		STR V3L 25 w/ch (20 Hz-		STR V4L 50 w/ch (40 Hz-16	
	0.7% at rated output Impedance		0.3% at rated output	t Sensitivity	0.08% at rated out	put Sensitivity	0.3% at rated out	put Sensitivity	0.1% at rated outpo	ut Sensitivity
Phono	50 k ohms	2.6 mV	50 k ohms	2.5 mV	50 k ohms	2.5 mV	50 k ohms	2.5 mV	50 k ohms	2.5 mV
	100 k ohms Impedance	150 mV Output level	50 k ohms Impedance	150 mV Output level	50 k ohms Impedance	150 mV Output level	50 k ohms Impedance	150 mV Output level	50 k ohms Impedance	150 mV Output level
	10 k ohms	150 mV	10 k ohms	150 mV	10 k ohms	150 mV	10 k ohms	150 mV	10 k ohms	150 mV
Speaker	Oahma		8 ohms		8 ohms		8 ohms		8 ohms	
	8 ohms Phono RIAA equalisa	tion curve ±1 dB,	Phono RIAA equalis	ation curve ±1 dB,		sation curve ±1 dB,		lisation curve ± 0.8 dB,		sation curve ± 0.8 dB,
	10-50,000 Hz+1/-		10-50,000 Hz+0/		10-50.000 Hz+0	/—1 dB tape	10-40,000 Hz+	0.5/-3 dB	5-50,000 Hz+0.	5/-2 dB
	Phono 70 dB, others	90 dB	Phono 70 dB, tape 9	90 dB	Phono 80 dB, tape		Phono 75 dB, oth		Phono 75 dB, other	
	VHF 87.5-108 MHz		VHF 87.5-108 MHz 1.9µ V (IHF)		VHF 87.5-108 MH 1.8 µV (IHF)	Z	VHF 87.5-108 MI 1.6 µ V (S/N-26		VHF 87.5-108 MH. 1.6μV (S/N=26 d	
	1dB		1.9µ v (inic)		1dB		1dB	00)	1dB	
	55 dB	(0 0)	55 dB	1 2 15	55 dB	F / 2 ab	70 dB	1/ 0.40	70 dB 30-15,000 Hz+1/	/ 2.40
	30-15,000 Hz+0.5/ 45 dB (1 kHz)	/-2 dB	30-15,000 Hz+0.5 45 dB	7-2 dB	30-15,000 Hz+0 45 dB	.5/-2 OB	30-15,000 Hz+ 45 dB (1 kHz)	1/-2 0B	45 dB (1 kHz)	-2 UD
erial terminals	300 ohms balanced,							ced, 75 ohms unbalance		
	MW 530-1605 kHz, SW 5.8-15.8 MHz	LW 150-350 kHz,	MW 530-1605 kHz SW 5.8-15.8 MHz	LW 150-350 kHz,	SW 5.8-15.8 MHz	z, LW 150-350 kHz,	MW 530-1605 k	Hz, LW 150-350 kHz	MW 530-1605 KH	z, LW150-350 kHz
		V), attached antenna	Built-in ferrite bar (L	W), attached antenna	Built-in ferrite bar	(MW, LW), external		(MW, LW), external	Built-in ferrite bar	aerial, external
	wire (MW), external t	erminals (MW, LW)	wire (MW), external	terminals (MW, LW)	terminals (VHF, SW AC 240 V, 50 Hz)	aerial terminals (AC 240V, 50 Hz	MW, LW)	aerial terminals AC 240 V, 50 Hz	
	AC 240 V, 50 Hz 110 watts		AC 240 V, 50 Hz 240 watts		380 watts		230 watts		410 watts	
mensions (approx.)	410 (W) x 145 (H) x 3	805 (D) mm	430 (W) x 145 (H) x	310 (D) mm	430 (W) x135 (H)	x 370 (D) mm	440 (W) x145 (H	x 370 (D) mm	480 (W) x 145 (H)	x 395 (D) mm
	5.9 kg STRV5		7.6 kg STR V6		9.3 kg		8.5 kg	Laborator Calculation	14 kg	
ated output (rms)	85 w/ch (20 Hz-20		115 w/ch (20 Hz-20				ALCOHOL:	STATE OF THE PARTY		
armonic distortion	0.07% at rated outpo		0.07% at rated outp	Sensitivity Sensitivity		CANADA PARA				THE RESIDENCE OF THE PARTY OF T
	50 k ohms	2.5 mV	50 k ohms	2.5 mV						COURT SECURITION
High level inputs	100 k ohms	150 mV	100 k ohms	150 mV			No. of the last of		THE REAL PROPERTY.	
	4.7 k ohms	Output level 150 mV	1mpedance 4.7 k ohms	Output level 150 mV		NE CONTRACTOR OF THE PARTY OF T		The second secon		A STATE OF THE PARTY OF THE PAR
Headphone	8 ohms	STATE OF THE PARTY.	8 ohms	A DECEMBER OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	White the same		PERMITTED IN	STATE OF THE		THE STATE OF THE STATE OF
	Phono RIAA equalisa 5 Hz-50 kHz+0/-		Phono 1, 2 RIAA equ 5 Hz-50 kHz+0/-	alisation curve ± 0.5 o	dB,			CANCEL CONTROL		
	Phono 75 dB, others		Phono 1, 2 75 dB, or					SECTION OF THE PARTY OF		intimate by some
ining range	VHF 87.5-108 MHz		VHF 87.5-108 MHz	1.30						
	1.4µV (S/N=26 dB) 1 dB		1.3µV (S/N=26 dB 1 dB							
electivity	50 dB at 300 kHz, 85		55 dB (normal), 85	dB (narrow) at 400 kH	łz		UP-19 INTER			A SHARKS NO.
	30-15,000 Hz+0.2 48 dB (1 kHz)	/-1.5 dB	30-15,000 Hz+0.2 48/40 dB at 1 kHz (
erial terminals		. 75 ohms unbalanced		1,75 ohms unbalanced	d			The state of the s	Andrew Lorenza	Type Control of
	MW 530-1605 kHz		MW 530-1605 kHz							
	Built-in ferrite bar ae aerial terminals	nai, externai	Built-in ferrite bar a	erial, external			CONTRACTOR AND			
ower requirements	AC 240V, 50Hz		AC 240V, 50 Hz					A STATE OF THE STA		GRANDS WITE
	430 watts 525 (W) x 195 (H) x 4	150 (D) mm	620 watts 525 (W) x 195 (H) x	450 (D) mm						
Veight (approx.)	19 kg	+30 (D) (IIII)	22 kg	430 (0) 1111						
	HST49A	(1) (Lis O above)	HST 99 40 watts per chann	al // VHz Rohms)						
	20 watts per channe Less than 0.5% at 1 v		Less than 0.2% at r			Cupacasa was				
	Impedance	Sensitivity	Impedance	Sensitivity						
Phono Mic.	47 k ohms 600 ohms	3.5 mV	600 ohms	3.5 mV						
High level inputs	47 k ohms	500 mV	47 k ohms	500 mV	TO USE AND	SESEL WITCH	Ser Property and		distanting	De la Contraction de la Contra
Outputs Rec; out	Impedance 10 k ohms	Sensitivity 250 mV	Impedance 10 k ohms	Output level 250 mV						
Speaker Speaker	8 ohms	230111	8 ohms	230/118			CONTROL STATE	NE STORE STO		Carried Marie
Headphone	8 ohms	ation guero 1.0.40	8 ohms Phono RIAA equalis	ation curve ± 2 dD						Market State
requency response N ratio	Phono RIAA equalisa Phono 65 dB, mic 60		Phono 70 dB, aux 9							
requency response	50-12,500 Hz±6 d	B (normal),	30-17,000 Hz (met			Medical Commence of		PARTIE NAMED	THE STREET	THE RELEASE OF
Vow and flutter	40-12,500 Hz ± 6 c 0.18% wrms	IB (CrO ₂)	0.04% wrms				No. of the last of			
	52 dB (CrO ₂) Dolby of	off	55 dB (metal tape)	Dolby off						CE DECEM
N ratio			1% VHF 87.5-1108 MH.				CONTRACTOR OF THE PARTY OF THE	Of the Local Con-		
/N ratio larmonic distortion	3% VALE 975_109 MHz		1.6µV (S/N=30.dE			IS COLUMN	41.0			
/N ratio larmonic distortion uning range	3% VHF 87.5-108 MHz 2.2 µV (S/N=30 dB)		A PERSON NAMED IN COLUMN 1	SILE PARTIE	DATE STORY	(STEALERS)			Salaria de La pro-s
A ratio larmonic distortion uning range lensitivity A ratio	VHF 87,5-108 MHz 2.2 μV (S/N=30 dB 65 dB		70 dB	(-t)		CANDOD STATE OF THE STATE OF TH	and the second			
/N ratio larmonic distortion uning range lensitivity /N ratio larmonic distortion	VHF 87,5–108 MHz 2.2 μV (S/N=30 dB 65 dB 0.5% (mono), 1% (st		70 dB 0.1% (mono), 0.3%	(stereo)						
i/N ratio larmonic distortion uning range ler/N ratio larmonic distortion stereo separation	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ±3 d	ereo)	70 dB					THE RESERVE		
/N ratio armonic distortion uning range ensitivity /N ratio armonic distortion tereo separation requency response M suppression	VHF 87.5–108 MHz 2.2 µV (\$/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ±3 d	ereo)	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ±3	dB						
/N ratio armonic distortion uning range ensitivity /N ratio armonic distortion tereo separation requency response M suppression	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ±3 d	ereo)	70 dB 0.1% (mono), 0.3% 40 dB	dB						
/N ratio armonic distortion uning range ensitivity /N ratio armonic distortion tereo separation requency response M suppression uning range	VHF 87.5-108 MHz 2.2 μV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70-12,500 Hz ±3 d 45 dB MW 530-1605 kHz, SW 5.8-15.8 MHz MW 500 μV/m built-	B LW150-350 kHz, in, 35 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30–15,000 Hz ±33 MW 530–1605 kHz SW 5.8–15.8 MHz MW 250 µV/m built	dB , LW150-350 kHz, -in, 35µV external						
/N ratio armonic distortion uning range ensitivity /N ratio aarmonic distortion tereo separation requency response M suppression uning range	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz WW 500 µV/m built-LW 55 dB/m built-in.	B LW150-350 kHz, in, 35 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30–15,000 Hz ±33 MW 530–1605 kHz SW 5.8–15.8 MHz MW 250 µV/m built LW 500 µV/m built	dB , LW150-350 kHz, -in, 35µV external						
/N ratio larmonic distortion uning range ensitivity /N ratio larmonic distortion larmonic distortion lareo separation requency response M suppression uning range lensitivity	VHF 87.5-108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70-12,500 Hz ± 3 d 45 dB 45 dB 45 dB 45 dS 45 dB 45 dS 45 d	B LW150-350 kHz, in, 35 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3 · MW 530-1605 kHz SW 5.8-15.8 MHz MW 250 µV/m built LW 500 µV/m built SW 30 µV external AC 240V, 50 Hz	dB , LW150-350 kHz, -in, 35µV external						
A ratio armonic distortion uning range Sensitivity A ratio armonic distortion diarmonic distortion stereo separation requency response M suppression uning range Sensitivity	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ±3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz SW 5.8–15.8 MHz SW 30, µV external LW 55 dB/m built-in, SW 30, µV external AC 240 V, 50 Hz 105 watts	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ±3: MW 530-1605 kHz SW 5.8-15.8 MHz MW 250 µV/m built SW 30 µV external AC 240 V, 50 Hz 240 watts	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
S/N ratio	VHF 87.5-108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70-12,500 Hz ± 3 d 45 dB 45 dB 45 dB 45 dS 45 dB 45 dS 45 d	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3 · MW 530-1605 kHz SW 5.8-15.8 MHz MW 250 µV/m built LW 500 µV/m built SW 30 µV external AC 240V, 50 Hz	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
6/N ratio larmonic distortion funing range Sensitivity 6/N ratio larmonic distortion stereo separation requency response AM suppression funing range Sensitivity Power requirements Power consumption Dimensions (approx.)	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz LW 55 dB/m built-LW 55 dB/m built-	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3: MW 530-1605 kHz WW 250 µV/m built WW 250 µV/m built SW 30µ V external AC 240 V, 50 µZ 240 watts 455 (W) x 240 (H) :	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
in Aratio Jarmonic distortion Jarmonic distortion	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz LW 55 dB/m built-LW 55 dB/m built-	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3: MW 530-1605 kHz WW 250 µV/m built WW 250 µV/m built SW 30µ V external AC 240 V, 50 µZ 240 watts 455 (W) x 240 (H) :	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
6/N ratio larmonic distortion funing range Sensitivity 6/N ratio larmonic distortion stereo separation requency response AM suppression funing range Sensitivity Power requirements Power consumption Dimensions (approx.)	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz LW 55 dB/m built-LW 55 dB/m built-	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3: MW 530-1605 kHz WW 250 µV/m built WW 250 µV/m built SW 30µ V external AC 240 V, 50 µZ 240 watts 455 (W) x 240 (H) :	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
/N ratio armonic distortion uning range ensitivity in armonic distortion armonic distortion tereo separation requency response M suppression uning range ensitivity ower requirements ower consumption imensions (approx.)	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz LW 55 dB/m built-LW 55 dB/m built-	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3: MW 530-1605 kHz WW 250 µV/m built WW 250 µV/m built SW 30µ V external AC 240 V, 50 µZ 240 watts 455 (W) x 240 (H) :	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
/N ratio armonic distortion uning range ensitivity / N ratio armonic distortion uning range ensitivity / N ratio armonic distortion tereo separation requency response M suppression uning range ensitivity / N suppression uning range ensitivity / N suppression uning range ensitivity / N suppression / N	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz LW 55 dB/m built-LW 55 dB/m built-	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3: MW 530-1605 kHz WW 250 µV/m built WS00µ V/m built SW 30µ V external AC 240 V, 50 µZ 440 V, 50 µZ 440 V, 50 µZ 455 (W) x 240 (H) ;	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						
N ratio rmonic distortion ining range nsitivity N ratio N ratio rereo separation equency response I suppression ning range nsitivity wer requirements wer consumption mensions (approx.)	VHF 87.5–108 MHz 2.2 µV (S/N=30 dB 65 dB 0.5% (mono), 1% (st 35 dB 70–12,500 Hz ± 3 d 45 dB MW 530–1605 kHz, SW 5.8–15.8 MHz LW 55 dB/m built-LW 55 dB/m built-	B LW150-350 kHz, in, 35 µV external ,150 µV external	70 dB 0.1% (mono), 0.3% 40 dB 30-15,000 Hz ± 3: MW 530-1605 kHz WW 250 µV/m built WS00µ V/m built SW 30µ V external AC 240 V, 50 µZ 440 V, 50 µZ 440 V, 50 µZ 455 (W) x 240 (H) ;	dB , LW150–350 kHz, -in, 35μ V external in, 150 μV external						

				TCU60		TCK45 0.05% wrms,±0.14% DIN
	Wow and flutter S/N ratio*	0.08% wrms, ± 0.2% DIN 55 dB (FeCr)	0.05% wrms, ±0.14% DIN 56 dB (FeCr)	0.04% wrms,±0.12% DIN 59 dB (FeCr)		58 dB FeCr
	Frequency response	50–13,000 Hz (±3 dB) FeCr 50–13,000 Hz (DIN) FeCr	50–13,000 Hz (±3 dB) FeCr, 50–13,000 Hz (DIN) FeCr	30–16,000 Hz (±3 dB) FeCr 30–16,000 Hz (DIN FeCr)		30–15,000 Hz (±3 dB) FeCr, 30–15,000 Hz (DIN) FeCr
	Total harmonic dist.	2% with FeCr tape		1.3% with FeCr tape		1.3% with FeCr tape
		Impedance Sensitivity		Impedance Sensitivity Low -70 dB (0.25 mV)		Impedance Sensitivity Low -70 dB (0.25 mV)
er Sect	Mic.	Low −70 dB (0.25 mV) 100k ohms −20 dB (77.5 mV)		Low −70 dB (0.25 mV) 50 k ohms −20 dB (77.5 mV)		50 k ohms —20 dB (77.5 mV)
corde	DIN	10 k ohms	10 k ohms	10 k ohms	10 k ohms	10 k ohms
Recor	Outputs Line	Impedance Output level more than 10k ohms 435 mV		Impedance Sensitivity More than 10 k ohms 435 mV		Impedance Output level More than 10 k ohms 435 mV
	DIN	50k ohms 435.mV	50 k ohms	50 k ohms 435 mV	50 k ohms	50 k ohms 435 mV
	Headphones Motor	8 ohms FG servo motor	8 ohms Tri duty FG servo motor	8 ohms Two (one BSL motor)		8 ohms FG servo motor
	Heads	1 x rec/PB head, 1 x erase head	1xF&F rec/PB head, 1x 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
Tal	Power requirements Power consumption	AC 240 V, 50 Hz 12 watts	240V, 50 Hz 16 watts	AC 240V, 50 Hz 30 watts		AC 240V, 50 Hz 14 watts
ene	Dimensions (approx.)	410 (H) x 145 (W) x 260 (D) mm	430 (W) ×130 (H) × 290 (D) mm	430 (W) x130 (H) x 290 (D) mm		430 (W) x 130 (H) x 290 (D) mm
0	Weight (approx.)	5 kg TC K55 Mk II	5.4 kg TCK65	5.7 kg TCK81		5.8 kg TC K96R
	Wow and flutter	0.04% wrms, ± 0.12% DIN	0.04% wrms, ±0.12% DIN	0.04% wrms, ±0.12% DIN		0.05% wrms, ±0.14% DIN
	S/N ratio*	59 dB (FeCr)	59 dB (FeCr)	60 dB (FeCr)	60 dB (FeCr)	59 dB 30-16,000 Hz (±3 dB) FeCr,
	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	30–18,000 Hz (±3 dB) FeCr, 30–18,000 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	0.9% with FeCr	1.3% with FeCr tape
der Section	Inputs Mic.	Impedance Sensitivity Low —70 dB (0.25 mV)	Impedance Sensitivity Low -70 dB (0.25 mV)	Impedance Sensitivity Low -70 dB (0.25 mV)		Impedance Sensitivity Low -70 dB (0.25 mV)
erSe	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)	50 k ohms —20 dB (77.5 mV)	100 k ohms —20 dB (77.5 mV)
Record	DIN Outputs	10 k ohms Impedance Output level	10 k ohms Impedance Output level	10 k ohms Impedance Output level	10 k ohms Impedance Output level	10 k ohms Impedance Output level
Re	Line	More than 10 k ohms 435 mV	More than 10 k ohms 435 mV	More than 10 k ohms 435 mV	More than 10 k ohms 435 mV	More than 10 k ohms 435 mV
	DIN Headphones	50 k ohms 435 mV 8 ohms	50 k ohms 435 mV 8 ohms	50 k ohms 8 ohms	50 k ohms 8 ohms	50 k ohms 775 mV 8 ohms
	Motor	Two (FG servo capstan)	Two (one FG servo capstan)	Two (one FG servo capstan)	3 D.D. BSL+slide motor	Two BSL FG (FG servo capstan motor)
	Heads Power requirements	1 x S&F rec/PB head, 1 x erase head	1 x S&F rec/PB head, 1 x erase head	S&F rec/PB heads, 1 x erase head	1x S&F rec/PB head, 1x erase head AC 240 V. 50 Hz	1 x F&F rec/PB head, 2 x erase heads AC 110,120, 220, 240 V, 50/60 Hz
ral	Power requirements Power consumption	AC 240V, 50Hz 26 watts	AC 240 V, 50 Hz 26 watts	AC 240 V, 50 Hz 28 watts	45 watts	33 watts
Gene	Dimensions (approx.)	430 (W) x 130 (H) x 290 (D) mm	430 (W) x 130 (H) x 290 (D) mm	430 (W) x130 (H) x 290 (D) mm	480 (W) x 80 (H) x 385 (D) mm	430 (W) x155 (H) x 325 (D) mm 8.5 kg
	Weight (approx.)	5.2 kg TC399	5.7 kg TC 645	6.3 kg TC 765	10 kg TC 766-2	TC 880-2
	Bias frequency	160 kHz	160 kHz	160 kHz	160 kHz 2-track, 2-channel stereo rec/PB;	160 kHz 2-track, 2-channel, rec/PB;
	Recording format	4-track, 2-channel	4-track, 2-channel	4-track, 2-channel stereo	4-track, 2-channel PB	4-track, 2-channel PB
	Tape speeds	19, 9.5, 4.8 cm/s	19, 9.5 cm/s	19, 9.5 cm/s	38,19 cm/s	38,19 cm/s
	Wow and flutter	19 cm/s 0.06% wrms±0.09% DIN 9.5 cm/s 0.09% wrms±0.12% DIN	19 cm/s 0.07% wrms ± 0.09% DIN 9.5 cm/s 0.11% wrms ± 0.12% DIN	19 cm/s 0.04% wrms ± 0.07% DIN 9.5 cm/s 0.08% wrms ± 0.15% DIN	38 cm/s 0.018% wrms ± 0.035% DIN 19 cm/s 0.04% wrms ± 0.07% DIN	38 cm/s 0.02% wrms ± 0.03% DIN 19 cm/s 0.03% wrms ± 0.04% DIN
		4.8 cm/s 0.12% wrms				FO. D. (1) D. (1) D. (2) D. (3)
	S/N ratio	55 dB (normal), 58 dB (special) 61 dB (FeCr)	53 dB (normal), 56 dB (SLH)	55 dB (normal), 58 dB (SLH), 61 dB (FeCr)	58 dB (normal), 61 dB (SLH), 64 dB (FeCr)	59 dB (normal), 62 dB (SLH), 65 dB (FeCr)
	Frequency response	FeCrtape	'SLH' tape	'SLH, FeCr' tape19 cm/s 30 – 25,000 Hz	'SLH, FeCr' tape 38 cm/s 30 – 30,000 Hz	
tion		19 cm/s 30-25,000 Hz (±3 dB) 19 cm/s 30-25,000 Hz (DIN)	19 cm/s 30-25,000 Hz±3 dB 19 cm/s 30-24,000 Hz DIN	±3 dB 30 - 25,000 Hz DIN 'SLH, FeCr' tape 9.5 cm/s 30 - 18,000 Hz	±3 dB 30 - 30,000 Hz DIN 'SLH, FeCr' tape 19 cm/s 30 - 25,000 Hz	20 – 40,000 Hz ± 2 dB 'FeCr' tape 19 cm/s
Sec		9.5 cm/s 30-18,000 Hz (±3 dB)	9.5 cm/s 40–16.000 Hz DIN	±3 dB 30-18,000 Hz DIN	±3 dB 30 - 25,000 Hz DIN	25-30,000 Hz ± 2 dB
Recorder Section	Total harmonic dist.	9.5 cm/s 30–18,000 Hz (DIN) 0.8% with FeCr tape	1.2%	0.7% with 'FeCr' tape	0.5% with 'FeCr' tape	0.5% with FeCr tape
Rec	Inputs	Impedance Sensitivity	Impedance Sensitivity	Impedance Sensitivity	Impedance Sensitivity	Impedance Sensitivity
	Mic Line	Low —70 dB (0.25 mV) 100 k ohms —20 dB (77.5 mV)	Low —72 dB (0.2 mV) 100 k ohms —22 dB (60 mV)	Low -72 dB (0.2 mV) 100 k ohms -22 dB (60 mV)	Low —72 dB (0.2 mV) 100 k ohms —22 dB (60 mV)	Low —72 dB (0.2 mV) 100 k ohms —22 dB (60 mV)
	DIN	10 k ohms	10 k ohms	10 kohms	10 k ohms	22 45 (55 1117)
	Outputs	Impedance Output level More than 10 k ohms 435 mV	Impedance Output level	Impedance Output level	Impedance Output level	Impedance Output level more than 10 k ohms 435 mV (100 k ohms)
	Line DIN	50 k ohms 435 mV	50 k ohms 775 mV	50 k ohms 435 mV	50 k ohms 435 mV	50 k ohms
	Headphone Motor	8 ohms	8 ohms	8 ohms	8 ohms	8 ohms
	Heads	1xF&F rec. head.1xF&F PB head,	1xF&F rec. head, 1xF&F PB head,	1xF&FPB head, 1xF&F rec head,	1xF&FPB head (4T), 1F&F xPB head (2T),	
		1 x erase head AC110, 120, 220, 240V, 50/60 Hz	1 x erase head AC110, 127, 220, 240 V, 50/60 Hz	1 x erase head AC 110, 120, 220, 240 V, 50/60 Hz	1 x F&F rec head (2T), 1 x erase head (2T) AC 110, 120, 220, 240 V, 50/60 Hz	1 x F&F rec head, 1 x erase head AC 110,127, 220, 240 V, 50 / 60 Hz
eral	Power requirements Power consumption	35 watts	110 watts	90 watts	90 watts	120 watts
Gen	Dimensions (approx.)	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	445 (W) x 525 (H) x 235 (D) mm 27 kg	465 (W) x 515 (H) x 265 (D) mm 36.5 kg
	Weight (approx.)	12.9 kg TC 510-2	18.5 kg ELD 8	27 kg	L/ ng	30.3 ng
	Bias frequency Recording format	160 kHz 2-track, 2-channel	106 kHz 4-track, 2-channel		SECTION STATEMENTS	
	Tape speeds	19, 9.5 cm/s (manually variable ± 10%)	9.5 cm/s			
	Wow & flutter	19 cm/s 0.05% wrms ±0.08% DIN	0.04% wrms, 0.1% DIN			RIVERS TO THE RIVERS
	S/N ratio*	9.5 cm/s 0.08% wrms ± 0.12% DIN 64 dB (FeCr)	62 dB			
	Frequency response	'FeCr' tape 19 cm/s 30 - 27,000 Hz ±3 df	3 25-22,000 Hz ± 3 dB (FeCr)		NOT THE REPORT OF THE PARTY OF	ODGE OF STATE
u	The state of the s	30 – 27,000 Hz DIN 'FeCr' tape 9.5 cm/s 30 – 18,000 Hz	20 – 23,000 Hz DIN (FeCr)			
Recorder Section		±3 dB 30-18,000 DIN		THE SOMPLETE HOLD TO	THE MESSEL STREET	
S Jac	Total harmonic distortion Inputs	n 0.8% with FeCr tape Impedance Sensitivity	0.8% with FeCr tape Impedance Sensitivity			
SCOR	Mic	Low —72 dB (0.2 mV)	Low -70 dB (0.25 mV)			A SHOULD BE SEEN AS
Œ	Line Outputs	100 k ohm —22 dB (60 mV) Impedance Output level	100 k ohm —20 dB (77.5 mV) Impedance Output level	FUNDOM STATES		
	Line	more than 10 k ohms 435 mV (100 k ohms) 10 k ohms 435 mV at 100 k ohm	AND DESCRIPTION OF STREET		CARLES AND KINSTER SHOW
	Headphone Power output	8 ohms (adjustable volume)	8 ohms	AND DESCRIPTION	LOS BADLES DE SERVICIO DE LA CASA DE	THE PERSON NAMED IN CO.
	Power output Speaker	500 mw 44 x 94 mm				NAME OF TAXABLE PARTY.
	Motor	1 x DC servo motor	1 x reel motor, 1 x capstan motor			
	Heads	1 x F&F rec head, 1 x F&F PB head, 1 x erase head	1 x F&F rec/PB head, 1 x erase head			
	Power requirements	DC12 V, 8 x HP2 ("D" size) batteries, AC	DC12 V, 8 x HP2 batteries; AC 240 V,			
	Court of the Court	240 V, 50 Hz with power adaptor, optional rechargeable battery pack (BP 55), car	50 Hz with power adaptor; optional rechargeable battery pack (BP 55);			
neral	Participation in	battery via optional car battery cord	car battery via optional cord (DCC 130)	MARKET STERROLLER		NUMBER OF STREET
Gen	Power consumption	(DCC129).	11 watts (with AC 26)	*DIN 45-633, measured with Dolby off;		
	Dimensions (approx.)	333 (W) x 136 (H) x 296 (D) mm	332 (W) x100 (H) x 298 (D) mm	Dolby on improvement 5 dB at 1 kHz,		Cardinating the second
	Weight (approx.)	6.8 kg including batteries	5.2 kg	more than 10 dB at 5 kHz.	THE RESIDENCE OF THE PARTY OF T	The state of the s
	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND					

Tuning range	HMK 11B	HMK 33/33B	HMK 44 VHF 87.5 – 108 MHz	HMK 80/80B VHF 87.5-108 MHz	HMK 7000 VHF 87.5 – 108 MHz
Sensitivity	VHF 87.5 – 108 MHz 2.2 μV (S/N = 30 dB)	VHF 87.5 – 108 MHz 2.2 μV (S/N = 30 dB)	2μV (S/N = 30 dB)	1.8 µV (S/N = 30 dB)	10μV (S/N=50 dB)
Vave bands	MW,LW	MW,LW	MW, LW	MW, LW SW 5.8 – 15.8 MHz	MW, LW
ated output (r.m.s.)	SW 5.8-15.8 MHz 12 watts per channel at 1 kHz (8 ohms),	SW 5.8 – 15.8 MHz 18 watts per channel at 1 kHz (8 ohms)	25 watts per channel at 40 Hz – 15 kHz	35 watts per channel at 1 kHz (8 ohms)	30 watts per channel at 1 kHz (8 ohms)
	music power 35 watts (total)	music power 50 watts (total)	(8 ohms), music power 90 watts (total)	music power 100 watts (total)	music power 90 watts (total)
peeds lotor	33½, 45 rpm DC servo motor	331/3, 45 rpm DC servo motor	331/s, 45 rpm DC servo motor	33½, 45 rpm DC servo motor	331/s, 45 rpm DC servo motor
rive	Belt drive	Belt drive	Belt drive	Direct drive	Direct drive
Vow and flutter / N ratio	0.08% wrms, ± 0.12% DIN 55 dB	0.08% wrms, ± 0.12% DIN 55 dB	0.1% wrms 55 dB	0.04% wrms, ± 0.06% DIN 68 dB	0.04% wrms, 68 dB
Cartridge	VL33G	VL - 33G	VL 33GS	VL34G	VL 34G
racking force	3g	3 g	3 g	1.5 - 2.5 g (2 g rec.)	1.5 - 2.5 g (2 g rec.)
Stylus Vow and flutter	ND -136G 0.2% wrms	ND -136G 0.2% wrms	ND - 136G 0.18% wrms	ND-134G 0.2% wrms	ND-134G 0.04% wrms
N ratio*	46 dB (CrO ₂) HNR off	46 dB (CrO ₂)	50 dB (FeCr)	46 dB (normal), 48 dB (FeCr)	56 dB (normal), 58 dB (FeCr)
requency response	40-12,500 Hz ± 3 dB (normal)	40 – 12,500 Hz ± 3 dB (normal)	50 – 12,500 Hz ± 3 dB (normal) 40 – 15,000 Hz ± 3 dB (FeCr, CrO ₂)	40-12,500 Hz ± 3 dB (normal) 40-16,000 Hz ± 3 dB (FeCr, CrO ₂)	30 – 17,000 Hz ±3 dB (FeCr) 30 – 17,000 Hz ±3dB (metal)
System	2 way speaker system	2 way speaker system	40 - 13,000 HZ ± 3 dB (FeC), ClO ₂)	2 way: woofer 200 mm diameter cone	Recommended speakers SS E50
				type; tweeter 25 mm diameter dome ty	pe.
landling power npedance	40 watts (music) 8 ohms	40 watts (music) 8 ohms		60 watts (DIN) 8 ohms	
Dimensions (approx.)	300 (W) x 500 (H) x 190 (D) mm	300 (W) x 500 (H) x 190 (D) mm		290 (W) x 535 (H) x 230 (D) mm	
Veight (approx.) Power requirements	5.4 kg AC 240 V, 50 Hz	5.4 kg AC 240 V, 50 Hz	AC 240 V, 50 Hz	9.5 kg AC 240 V, 50 Hz	AC 240 V. 50 Hz
ower requirements	75 watts	100 watts	AG 240 V, SURZ	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) x177 (H) x 495 (D) mm	688 (W) x 160 (H) x 500 (D) mm
Veight (approx.)	9.2 kg microphone, instruction	9.5 kg "microphone, instruction	16.5 kg	19.3 kg set of headphones, microphone,	24 kg ribbon antenna, 45 rpm
applied accessories	cassette, ribbon antenna	cassette, ribbon antenna		instruction cassette, ribbon antenna,	adaptor
	HINN DOOD			45 rpm adaptor	
funing range	HMK 9000 VHF 87.5 – 108 MHz				
Sensitivity	10μV (S/N=50 dB)	CENTER PROPERTY.	eres de la companya del companya de la companya del companya de la		MERCHANICAL PROPERTY.
Vave bands	MW, LW				
Rated output (r.m.s.)	40 watts per channel at 1 kHz (8 ohms)		CONTRACTOR OF STREET	OF THE PARTY OF TH	THE PERSON NAMED AND POST OFFICE AND PARTY.
anda	music power 120 watts (total)				NAME OF TAXABLE PARTY.
Speeds Motor	331/3, 45 rpm DC servo motor				
Drive	Computerised direct drive				
Wow and flutter S/N ratio	0.03% wrms, ± 0.045% DIN 70 dB				
Cartridge	VL 34G				
Tracking force	1.5 - 2.5 g (2 g rec.)				
Stylus Wow and flutter	ND-134G 0.04% wrms				
S/N ratio	56 dB (normal), 58 dB (FeCr)		COPY OF THE PROPERTY OF THE PARTY OF THE PAR	CONCERNS OF THE PARTY OF	
Frequency response	30-17,000 Hz + 3dB (FeCr)	Control of the Contro			
System	30-17,000 Hz + 3dB (metal)				
System)			
Handling power	30-17,000 Hz + 3dB (metal)	0			
Handling power Impedance	30-17,000 Hz + 3dB (metal)	0			
Handling power Impedance Dimensions (approx.) Weight (approx.)	30-17,000 Hz + 3dB (metal)	0			
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements	30-17,000 Hz + 3dB (metal) Recommended speakers SS E50/E70				
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.)	30-17,000 Hz + 3dB (metal) Recommended speakers SS E50/E70 360 watts 688 (W) x160 (H) x 515 (D) mm				
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.)	360 watts 688 (W) ×160 (H) × 515 (D) mm 24 kg		ff-Dally on improvement 5 dB		
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.)	30-17,000 Hz + 3dB (metal) Recommended speakers SS E50/E70 360 watts 688 (W) x160 (H) x 515 (D) mm	*DIN 45–633, measured with Dolby or at1 kHz, more than 10 dB at 5 kHz.	ff; Dolby on improvement 5 dB		
Handling power impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20	*DIN 45-633, measured with Dolby or at 1 kHz, more than 10 dB at 5 kHz. SSE30	SSE50	SSE70	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems	360 watts 688 (W) x160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor \$\$\$5\$\$E20 2-way, 2 speaker system	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system	SS E 50 3-way, 3 speaker system	3-way, 3 speaker system	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20	*DIN 45-633, measured with Dolby or at 1 kHz, more than 10 dB at 5 kHz. SSE30	SSE50		
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Supplied accessories Speaker systems Drive units Nominal impedance	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor \$\$5\$ \$\frac{20}{2}\$ way, 2 speaker system Woofer 160 mm cone, tweeter 8 ohms	*DIN 45-633, measured with Dolby or at 1 kHz, more than 10 dB at 5 kHz. SS E 30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms	
Handling power Impedance Dimensions (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Drive units Nominal impedance Power handling	360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor \$\$S\$E20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts	*DIN 45-633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E 30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Drive units Drive units Drive units Speaker systems Drive units Drive units Drive units Speaker systems Drive units Dri	360 watts 688 (W) ×160 (H) ×515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor \$\$5\$E20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IWI m) 60 Hz-20 kHz+4/-8 dB DIN	*DIN 45–633, measured with Dolby or at1 kHz, more than 10 dB at 5 kHz. SS E 30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz–20 kHz + 4/—8 dB DIN	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz-20 kHz+4/-8 dB DIN	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30Hz-20 kHz+4/-8 dB DIN	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.)	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 d8 (IWI m) 260 H2-20 kHz+4/-8 dB DIN 255 (W) x 480 (H) x 215 (D) mm	*DIN 45-633, measured with Dolby or at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Wooter 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz-20 kHz +4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz-20 kHz+4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (1W1m) 30 Hz-20 kHz +4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.)	360 watts 688 (W) ×160 (H) ×515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor \$\$5\$E20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IWI m) 60 Hz-20 kHz+4/-8 dB DIN	*DIN 45–633, measured with Dolby or at1 kHz, more than 10 dB at 5 kHz. SS E 30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz–20 kHz + 4/—8 dB DIN	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz-20 kHz+4/-8 dB DIN	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30Hz-20 kHz+4/-8 dB DIN	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.)	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 d8 (IW Im) 261 (H) x480 (H) x215 (D) mm 6 kg SSG1 3-way speaker system	*DIN 45-633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Wooter 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz-20 kHz +4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle	SSE 50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW Im) 40 Hz-20 kHz+4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way, bass reflex	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz +4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.)	360 watts 688 (W) x160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 H2-20 kHz+4/-8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, mid range 80 mm,	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz-20 kHz+4/—8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz – 20 kHz + 4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Vominal impedance Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Speaker system Drive units	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 d8 (IW Im) 261 (H) x480 (H) x215 (D) mm 6 kg SSG1 3-way speaker system	*DIN 45-633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Wooter 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz-20 kHz +4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle	SSE 50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW Im) 40 Hz-20 kHz+4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way, bass reflex	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz +4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Speaker system Drive units Speaker system Drive units Speaker system Drive units Speaker system Drive units	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW1m) 255 (W) x 480 (H) x 215 (D) mm 6 kg SSG1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz–20 kHz +4/—8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz-20 kHz+4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (1W1m) 30 Hz-20 kHz + 4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal	
Handling power Impedance I	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW1m) 60 Hz-20 kHz+4/-8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SSG1 3-way speaker system Woofer 250 mm, mid range 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35-20,000 Hz	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW1m) 50 Hz-20 kHz+4/—8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40-20,000 Hz	SSE 50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW Im) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz	
Handling power Impedance I	360 watts 688 (W) x160 (H) x515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW1m) 255 (W) x 480 (H) x 215 (D) mm 6 kg SSG1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (IW Im) 50 Hz–20 kHz +4/—8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz-20 kHz+4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (1W1m) 30 Hz-20 kHz + 4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal	
Handling power Impedance Immensions (approx.) Weight (app	360 watts 360 watts 688 (M) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW1m) 60 Hz -20 kHz +4/-8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SSG1 3-way speaker system Woofer 250 mm, mid range 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35-20,000 Hz 800 Hz, 4 kHz (fixed)	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz-20 kHz+4/—8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to —47 dB (variable); +2 dB to —47 dB (variable);	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 80 hms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 80 watts nominal 35-20,000 Hz - +2 dB to -48 dB (variable); +2 dB to -4 dB (variable)	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz 550 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable)	
Handling power Impedance Immensions (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Wominal impedance Wower handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.)	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Immensions (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Wominal impedance Wower handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.)	360 watts 360 watts 688 (M) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW1m) 60 Hz -20 kHz +4/-8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SSG1 3-way speaker system Woofer 250 mm, mid range 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35-20,000 Hz 800 Hz, 4 kHz (fixed)	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SS E30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz-20 kHz+4/—8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to —47 dB (variable); +2 dB to —47 dB (variable);	SSE50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 80 hms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg SS G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 80 watts nominal 35-20,000 Hz - +2 dB to -48 dB (variable); +2 dB to -4 dB (variable)	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x 610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz 550 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable)	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Weight (approx.) Frequency response Drive units	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Speaker system Dimensions (approx.) Weight (approx.) The system Dimensions (approx.)	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Drive units Drive units Drive units Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Speaker system Drive units Drive units Consumption (approx.) Consumption (approx.) Consumption (approx.) Consumption (approx.) Drive units Driv	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Nominal impedance Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Weight (approx.) Speaker system Drive units Input impedance Power handling Frequency response Crossover frequency Att. Tweeter	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Drive units Dower handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Speaker systems Drive units Drive units Consumption Drive units Consumption Drive units Frequency response Drive units Consumption Drive units	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Drive units Drive units Drive units Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Speaker system Drive units Drive units Consumption (approx.) Consumption (approx.) Consumption (approx.) Consumption (approx.) Drive units Driv	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Weight (approx.) Frequency response Drive units	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Weight (approx.) Frequency response Drive units	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Immensions (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Wominal impedance Wower handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.)	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
landling power Impedance I	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Dimensions (approx.) Weight (approx.) Power requirements Power consumption Dimensions (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Power handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.) Weight (approx.) Frequency response Drive units	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	
Handling power Impedance Immensions (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Weight (approx.) Supplied accessories Speaker systems Drive units Wominal impedance Wower handling Sensitivity Frequency response Dimensions (approx.) Weight (approx.)	360 watts 360 watts 688 (W) x 160 (H) x 515 (D) mm 24 kg ribbon antenna, 45 rpm adaptor SSE20 2-way, 2 speaker system Woofer 160 mm cone, tweeter 65 mm cone 8 ohms Nominal 25 watts, music 40 watts 91 dB (IW Im) 60 Hz – 20 kHz + 4/ – 8 dB DIN 255 (W) x 480 (H) x 215 (D) mm 6 kg SS G1 3-way speaker system Woofer 250 mm, midrange 80 mm, tweeter 25 mm 8 ohms 55 watts nominal 35 – 20,000 Hz 800 Hz, 4 kHz (fixed) (fixed) 340 (W) x 595 (H) x 300 (D) mm	*DIN 45–633, measured with Dolby of at 1 kHz, more than 10 dB at 5 kHz. SSE30 2-way, 2 speaker system Woofer 200 mm cone, tweeter 30 mm dome 8 ohms Nominal 30 watts, music 50 watts 91 dB (1W1m) 50 Hz–20 kHz+4/-8 dB DIN 300 (W) x 600 (H) x 295 (D) mm 10.6 kg SS G3 3-way, infinite baffle Woofer 250 mm, mid range 80 mm tweeter 50 mm 8 ohms 60 watts nominal 40–20,000 Hz 900 Hz and 5 kHz +3 dB to -4 dB (variable); +2 dB to -4 dB (variable) 345 (W) x 615 (H) x 340 (D) mm	\$\$E50 3-way, 3 speaker system Woofer 200 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 45 watts, music 70 watts 91 dB (IW1m) 40 Hz - 20 kHz + 4/-8 dB DIN 270 (W) x 570 (H) x 280 (D) mm 9 kg \$\$G5 3-way, bass reflex Woofer 300 mm, mid range 80 mm tweeter 25 mm 8 ohms 80 watts nominal 35-20,000 Hz	3-way, 3 speaker system Woofer 250 mm cone, mid-range 80 mm cone, tweeter 20 mm dome 8 ohms Nominal 65 watts, music 100 watts 91 dB (IW1m) 30 Hz-20 kHz+4/-8 dB DIN 310 (W) x610 (H) x 280 (D) mm 12 kg SS G7 3-way, 3-speaker, bass reflex Woofer 380 mm, mid range 100 mm tweeter 35 mm 8 ohms 100 watts nominal 30-20,000 Hz & 4.5 kHz at 12 dB/oct +0 to -4 dB (variable); +0 to -4 dB (variable) 510 (W) x 940 (H) x 445 (D) mm	

SONY REGENT STREET

We believe that there is no substitute for actually listening to our equipment.

It is for this reason that we have designed and built a special showroon at Regent Street. London.

It gives you the freedom to look and listen to the products that interest you and our staff are on hand to answer any questions that you might have. If you see or hear something you really like, then we can tell you where your nearest SONY dealer is

However, if you can't make it to Regent Street, then just drop a line to ou Consumer Information Service at the address below. They'll be pleased to advise you on any particular problems you might have such as the size of T.V. screen you require for your living room to building a hi-fi system to suit your home and pocket.

SONY Showroom 134 Regent Street, London W1R 6DJ



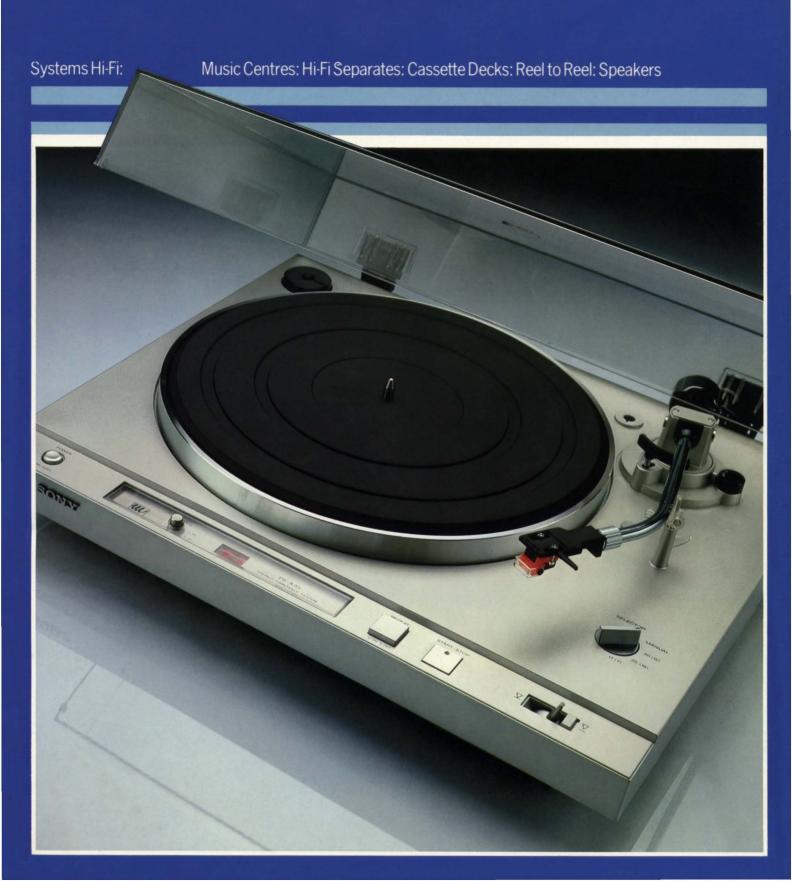
SONY

Consumer Information, Sony Showroom 134 Regent Street, London W1R 6DJ Telephone: 01-439 3874

Whilst the information given is true at the time of printing, small production changes in the course of our Company's Policy of improvement through research and design might not necessarily be indicated in the specification. We point this out, in order to avoid possible infringement under the Trades Description Act 1968, and would ask you to check with your Appointed SONY Dealer if clarification on any point is required.

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

Sony Hi-Fi

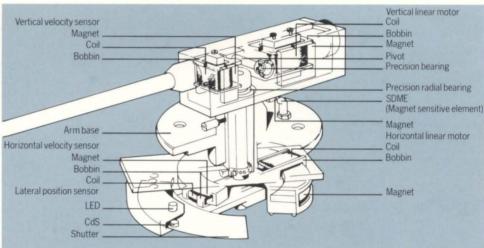


CONTENTS	page
Music centres	2
Systems hi-fi	6
Turntables	10
Amplifiers, Tuners, Receivers & Cassievers	14
Cassette Decks & Open Reel Tape Recorders	20
Speakers	26
Accessories	28
Specifications	29



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.



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.

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

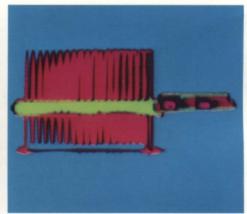
P.W.M. amplifiers use digital technology eliminating crossover problems inherent in conventional amplifiers whilst reducing the size and weight associated with high power output.



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 adversly affected by temperature. The design of an amplifier can then be optimised for

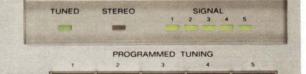


maximum sound quality and not compromised by consideration of heat dissipation.



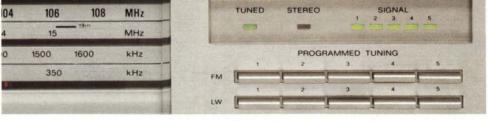
SYNTHESISED VHF

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 multisegment 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.





TAPE SELECT

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.





HMK 9000 (Illustrated below)



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 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 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: SS E50 or SS E70.



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.

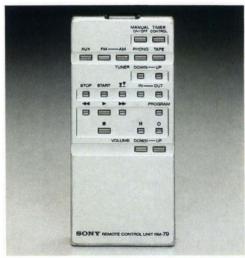
Sony have developed a revolutionary new type of motor to power both the cassette decks and turntables. As you can imagine variations in speed cause distortions in the sound produced, technically known as wow and flutter. The new brushless and slotless motor together with servo speed sensing mechanisms 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 2 PS 636	Z 600 (Below) Full automatic, crystal lock, direct drive turntable with electric controlled tone arm.
TA 636	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.
SU 636	Purpose built rack with vertical 12" storage and smoked glass door.
SS E50	Recommended 3 way loud- speakers.

	PT79	Timer.
	RM79	Remote commander. (Illustrated left.)
-		
Ī		
-		
_		



SYSTEM	Z 200
PS 212A	Semi automatic direct drive turntable with cartridge.
TA 212A	20W x 2 stereo amplifier with twin power meters.
ST212AL	4 waveband tuner.
TCU2	Dolby cassette deck, 3 position tape selector, auto shut off.
SU 214	Purpose built rack with vertical 12" disc storage.
SSE20	Recommended two way loudspeakers.

SYSTEM	Z 250
PS 333	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.
TC U30	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	I 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.
SS E30	Recommended 2 way loudspeakers.

SYSTEMS A, 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.	
SU 213	Purpose built rack with vertical 12" disc storage.	
SSE20	Recommended two way loudspeakers.	

SYSTEM Z	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.
SU 333	Purpose built rack with vertical disc storage.
SSE30	Recommended 2 way loudspeakers.
PT59	Optional timer (not illustrated).

SYSTEM ZR 400		
PS 333	Fully automatic direct drive turntable with cartridge.	
STR434L	40W x 2 stereo receiver 4 wavebands with digital frequency readout and one touch programme sensors.	
TC U30	Dolby cassette deck with 16 segment LED record meters.	
SU333	Purpose built rack with vertical disc storage.	
SS E50	Recommended 3 way loudspeakers.	
PT59	Optional timer (not illustrated).	











01012110	
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.
SS E50	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.
TO 1/45	D II I I I II 1C

Dolby cassette deck with 16 segment LED record level meters and auto play facility.

Recommended 3 way loudspeakers.

TCK45

SSE50

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

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.

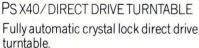
Cartridge supplied.











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 magnedisc 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 unobstrusively 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.





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.

Thermodynamic cooling.

75 watts per channel (20Hz-20kHz)

BONY



Preamp and power amp sections are internally separated.

TA F70/INTEGRATED AMPLIFIER

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

8808

Thermodynamic cooling.





Built-in head amp.

13 segment LED peak meter.













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/POWER AMPLIFIER

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.

STA7B/TUNER

Synthesized FM stereo tuner.

Combines the advantages of digital stability with analogue performance.

Adjustable selectivity.

TAN7B/POWER AMPLIFIER

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/POWER AMPLIFIER

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.



