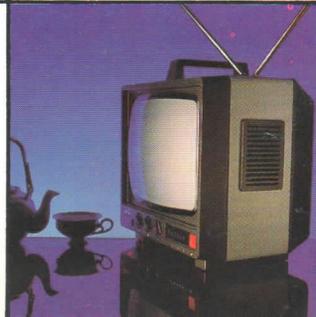
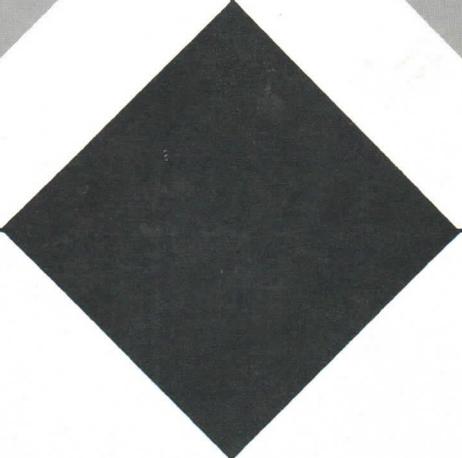
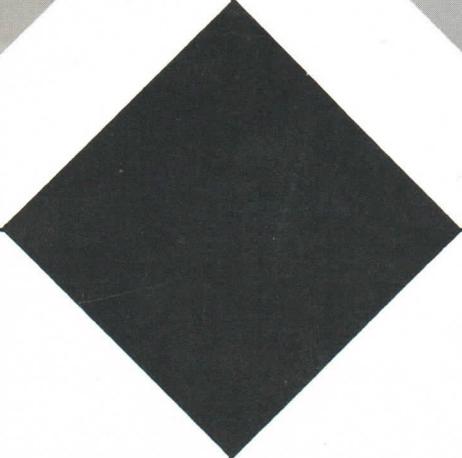
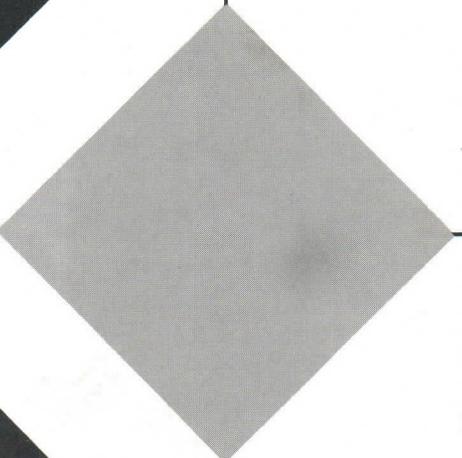
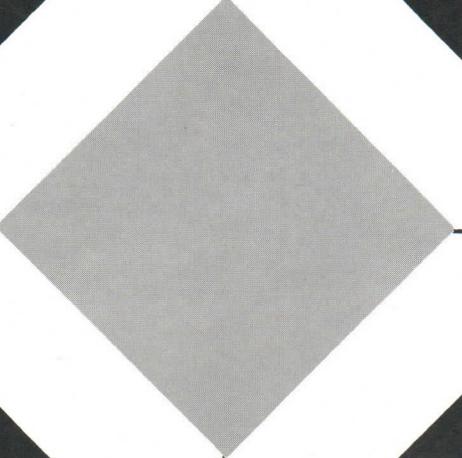
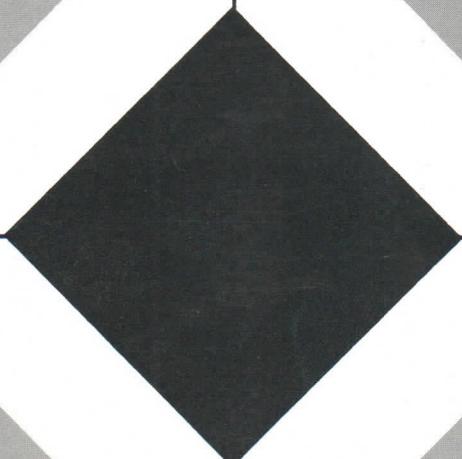
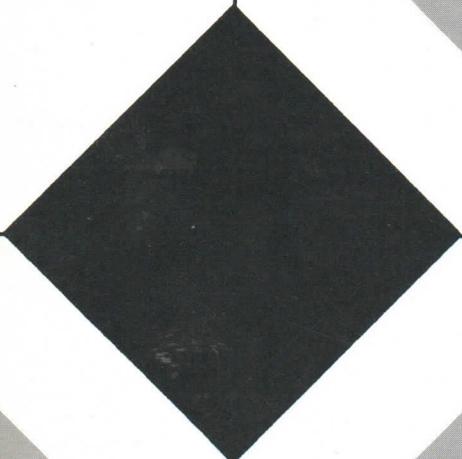
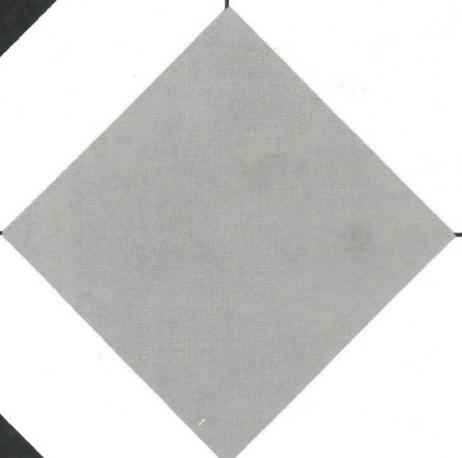
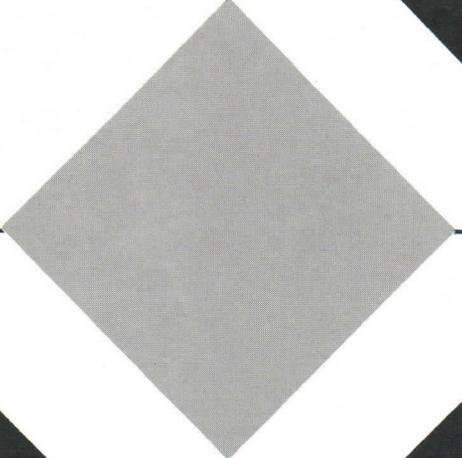
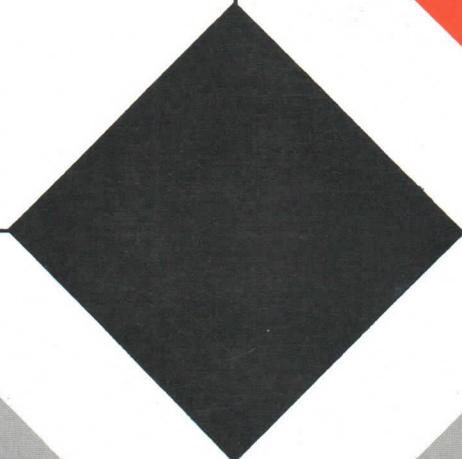
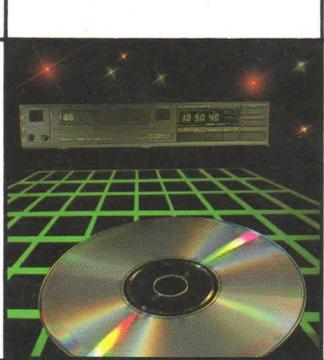


UNITRA



Hi-Fi

4



Record Player

10



TV Set

14



Cassette Recorder
Radio Recorder

20



Portable Radio

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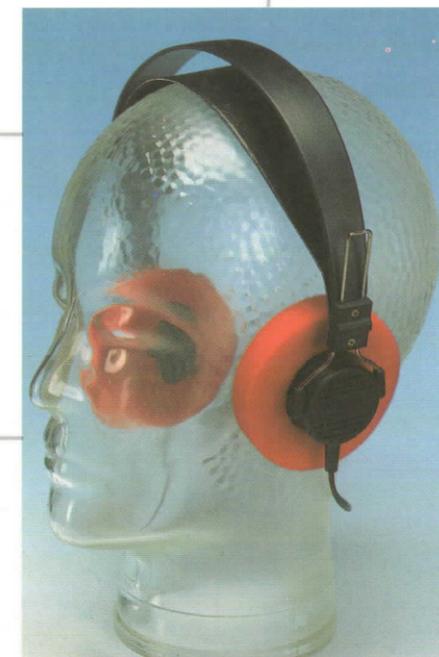
Loudspeaker
Systems

34

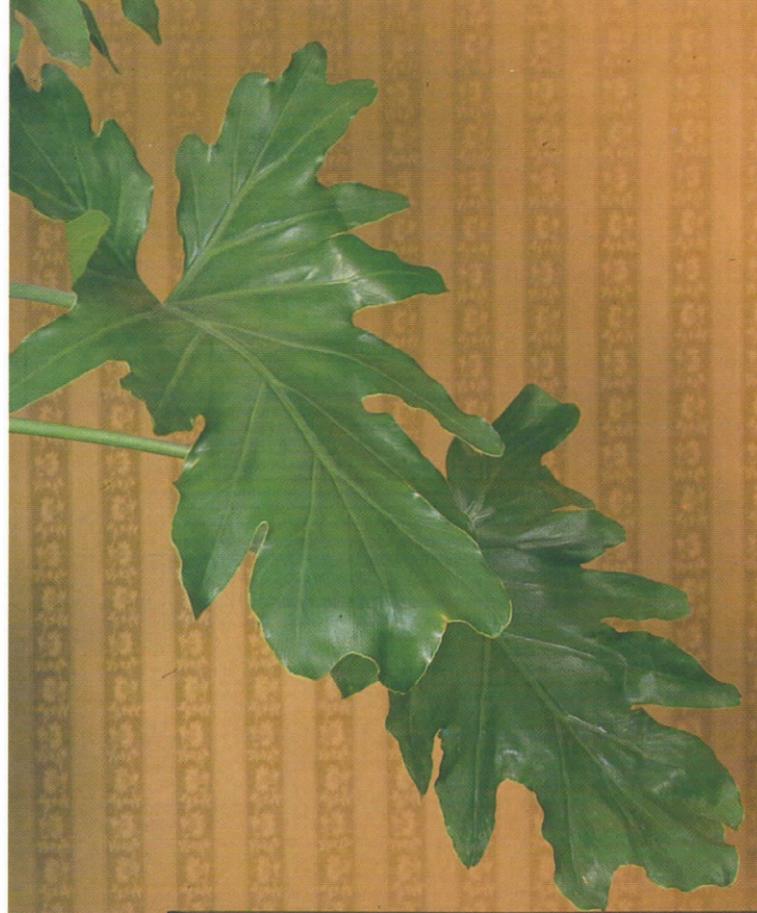


Accessories

40



Hi-Fi



Hi-Fi System Midi-Line ML 050



Tuner AS 950

- LW, MW, FM bands • LED FM/AM zero discriminator indicator • LED signal level indicator • LED stereo indicator

Amplifier WS 350

- output power 2 x 50 W • 5 band graphic equalizer • loudness filter • twin LED power level indicators • volume and balance controls • headphone socket

Cassette Deck MDS 450

- precision two-motor drive • Dolby B *) • soft touch, full-logic control • Fe, Cr, Me tapes • automatic tape selection • tape counter • LED function indicator • record level controls • record level indicator • microphone socket • headphone socket

Hi-Fi System Midi-Line ZM 3000

Tuner T 3015

- LW, FM bands • 3 FM station preselection • muting • LED signal level indicator • LED stereo indicator

Amplifier PW 3017

- output power 2 x 15 W • 5 band graphic equalizer • loudness filter • A/B/A+B/OFF selector • volume and balance controls • headphone socket

Cassette Deck M 3015

- soft touch • Fe, Cr tapes • DOLBY *) system • cue/rewind • one touch record • tape counter • LED function indicator • record level controls • record level indicator • microphone socket • headphone socket



Hi-Fi System Semi-Slim Line SSL 041

Digital Tuner AS 641

- LW, MW, FM bands • digital frequency read-out • 7 FM stations preselection • muting • AFC • LED FM/AM discriminator zero indicator • LED signal level indicator • LED stereo indicator

Graphic equalizer FS 040

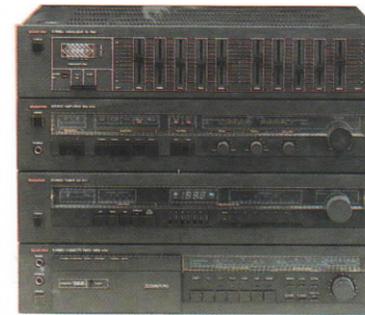
- 5-bands per channel • equalization on/off switch • high accuracy eq control • tape on/off switch • tape output/input sockets

Amplifier WS 440

- output power 2 x 60 W • soft-touch push-buttons • low frequency filter • loudness filter • separate bass and treble controls • LED function indicators • A/B/A+B/OFF speaker selector • equalizer input/output • twin LED power level indicators • volume and balance controls • headphone sockets

Cassette Deck MDS 440

- precision 3-motors mechanism • drawer-type load system • Dolby B *)/C • soft touch full logic control • full auto-stop • tapes indicator • Fe, Cr, Me tapes • tape counter • LED function indicator • record level controls • record level indicator • microphone socket • headphone socket



Hi-Fi System Midi-Line ML 055

Digital Tuner AS 950

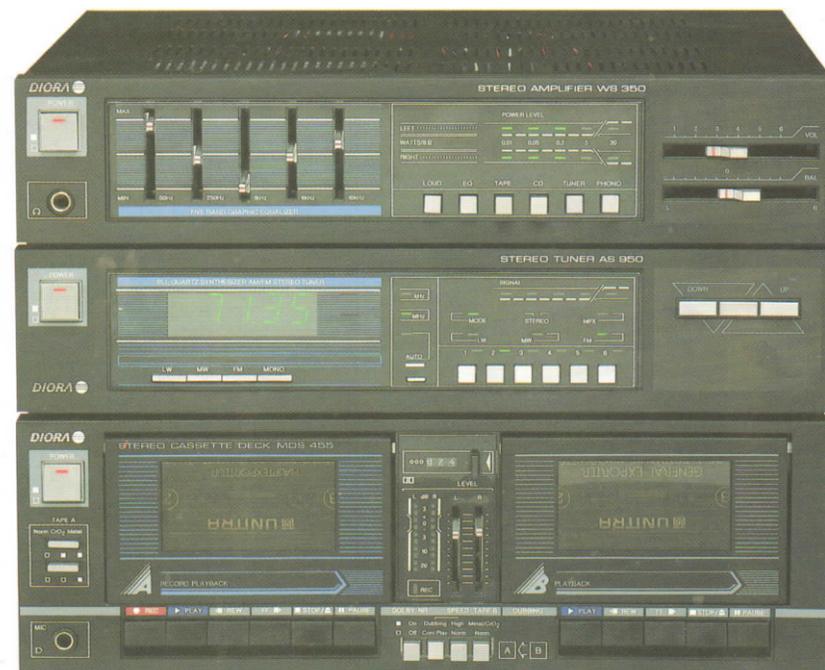
- LM, MW, FM bands • digital frequency synthesizer • microprocessor controlled • 18 stations preselection • automatic or manual tuning • LED frequency display • high speed range tuning • led range indicator • LED signal level indicator • LED stereo indicator • LED automatic scanning indicator

Amplifier WS 350

- output power 2 x 50 W • 5 band graphic equalizer • loudness filter • twin LED power level indicators • volume and balance controls • headphone socket

Cassette Deck MDS 455

- double cassette • Dolby B *) • continuous play • one touch recording • high speed dubbing • soft touch • Fe, Cr, Me tapes • tape counter • record level indicator • microphone socket • headphone socket



Hi-Fi System Semi-Slim Line SSL 045

Digital Tuner AS 641

- LW, MW, FM bands • digital frequency read-out • 7 FM stations preselection • muting • AFC • LED FM/AM discriminator zero indicator • LED signal level indicator • LED stereo indicator

Graphic equalizer FS 040

- 5-bands per channel • equalization on/off switch • high accuracy eq control • tape on/off switch • tape output/input sockets

Amplifier WS 440

- output power 2 x 60 W • soft-touch push-buttons • low frequency filter • loudness filter • separate bass and treble controls • LED function indicators • A/B/A+B/OFF speaker selector • equalizer input/output • twin LED power level indicators • volume and balance controls • headphone socket

Cassette Deck MDS 445

- precision two-cassette mechanism • Dolby B *) • continuous play • high speed dubbing • Fe, Cr, Metal tapes • tape counter • LED function indicator • record level controls • record level indicator • microphone socket • headphone socket



Noise reduction system manufactured under licence from DOLBY Laboratories. DOLBY and double-D symbols are trade marks of Dolby Laboratories.



Noise reduction system manufactured under licence from DOLBY Laboratories. DOLBY and double-D symbols are trade marks of Dolby Laboratories.

Hi-Fi System ZM 9200

Hi-Fi Receiver AT 9100

- Slim Line design • ten band stereo receiver • LM, MW, 7 SW, FM • double frequency conversion • 3 FM stations preselection • high selectivity and tuning precision • muting
- LED discriminator zero indicator • signal level indicator • stereo signal indicator • output power 2 x 50 W • volume and balance controls • separate bass and treble controls
- loudness filter • low and high filters • tone defeat — a possibility to switch off the stepless tone control system

Cassette Deck M 9201

- precision two-cassette mechanism • Dolby B *) • continuous play • high speed dubbing
- Fe, Cr, Metal tapes • tape counter • LED function indicator • record level controls • record level indicator • microphone socket • headphone socket



Hi-Fi Power-Pack CS 201

- LW, MW, SW, FM bands • 5 FM stations preselection • FM discriminator zero indicator • mono/stereo switch • FM muting • output power 2 x 30 W
- separate bass and treble controls • volume and balance controls • double cassette mechanism • Dolby B *) • Fe, Cr, Metal tapes • high speed dubbing • continuous play • full auto-stop • recording level indicators • tape counter • soft touch • detachable 2-way loudspeakers boxes • headphones socket



Hi-Fi Power-Pack ZM 101

- LM, MW, FM bands • AFC • FM discriminator zero indicator • signal level indicator • stereo indicator • mono/stereo switch • FM muting • output power 2 x 30 W • 5 band equalizer • separate bass and treble controls • volume and balance controls • stereo record player • semi automatic • belt drive • ceramic cartridge • double cassette mechanism • Dolby B *) • Fe, Cr tapes • high speed dubbing • continuous play • one touch record
- full auto-stop • recording level indicators • tape counter • soft touch • microphone socket • headphones socket

*) Dolby system



DOLBY SYSTEM

Noise reduction system manufactured under licence from DOLBY Laboratories. DOLBY and double-D symbols are trade marks of Dolby Laboratories.

Hi-Fi System ZM 9000

Tuner T 9010

- LM, MW, FM bands • 7 FM stations preselection
- muting • AFC • FM/AM discriminator zero indicator
- signal level indicator • stereo indicator



Amplifier PW 9017

- output power 2 x 50 W • 5 band graphic equalizer
- loudness acoustic filter • low and high frequency filters
- separate bass and treble controls • A/B/A+B/OFF speaker selector • short-circuit protection • volume and balance controls • headphones socket

Cassette Deck M 9100

- Fe, Cr, Me tapes • timer operation • Dolby B *)
- cue/rewind • auto-stop • automatic searching of the nearest pause between records • tape counter • record level controls • record level indicators • microphone socket • headphones socket



DOLBY SYSTEM

Noise reduction system manufactured under licence from DOLBY Laboratories. DOLBY and double-D symbols are trade marks of Dolby Laboratories.

Hi-Fi Receiver AWS 303 TOSCA

- Semi-Slim Line design • LW, MW, 2 SW, FM bands • 4 FM stations preselection • muting • LED zero indicator • signal level indicator • stereo signal indicator • output power 2 x 22 W • volume and balance controls • separate bass and treble controls

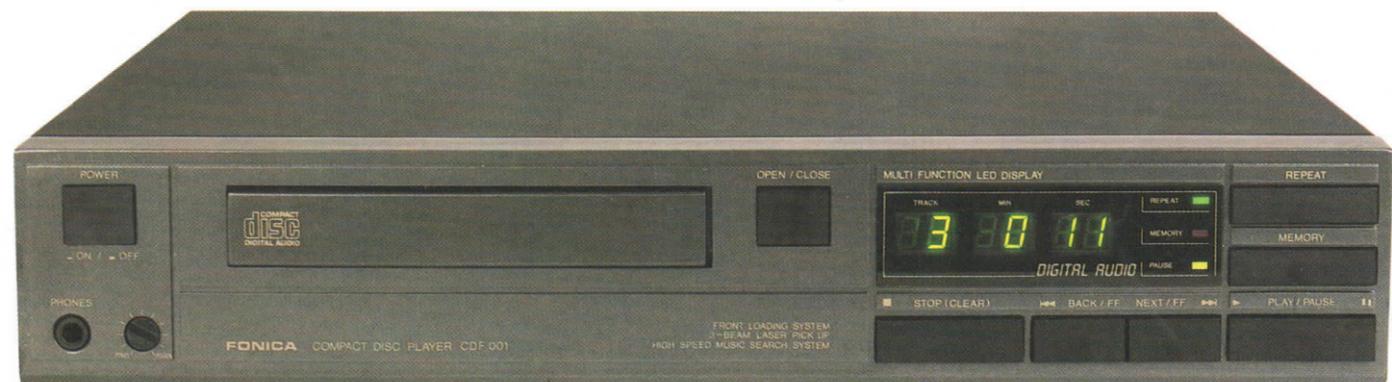


Record Player



Compact Disc Players Midi-Line CDP-001 and Slim-Line COP-002

- front loading system • 3-beam laser • programming for 16 music titles
- large 16 digit LED display for indicating title, number currently being played and playing time
- search function forward and reverse • replay of the compact disc or entered programme



Hi-Fi Turntable GS 461

- semi-automatic system • stroboscope speed monitoring
- lowering damper • speeds 33 and 45 r.p.m. • antiskating
- belt drive • DC motor with electronic r.p.m. control
- magnetic cartridge MF 104



Stereo record player GWS 302

- semi-automatic system • built-in amplifier • tonearm lifter, lowering damper • speeds 33 and 45 r.p.m.
- belt drive • DC motor with electronic r.p.m. control
- volume control • separate bass and treble controls
- output power 2 x 6 W • two small loudspeaker boxes as standard equipment • piezoceramic cartridge UF 70



Stereo record player GWS 116

- auto-stop • built-in power amplifier • tonearm lifter, lowering damper • speeds 33 and 45 r.p.m. • DC motor with electronic r.p.m. control • volume control • treble control
- output power 2 x 6 W • two small loudspeaker boxes as standard equipment • piezoceramic cartridge UF 70



Stereo record player GWS 121

- auto-stop • built-in amplifier • tonearm lifter • speeds 33 and 45 r.p.m. • belt drive • DC motor with electronic r.p.m. control • volume control
- treble control • output power 2 x 5 W • two small loudspeaker boxes as standard equipment • piezoceramic cartridge UF 70



TV Set



12" Portable TV Set VELA 203

- plastic cabinet in various colours
- integrated VHF/UHF tuner
- four- or seven-position programme selector
- brightness, contrast and volume controls
- two telescopic aerials
- 75 aerial input
- headphone output socket
- power supply: mains or car battery



12" Portable TV Set VELA 205



- plastic cabinet in various colours
- integrated VHF/UHF tuner
- four- or seven-position programme selector
- brightness, contrast and volume controls
- two telescopic aerials
- 75 aerial input
- headphone output socket
- power supply: mains or car battery

12" Portable TV Set VELA 206

- plastic cabinet in various colours
- integrated VHF/UHF tuner
- four- or seven-position programme selector
- brightness, contrast and volume controls
- two telescopic aerials
- 75 aerial input
- headphone output socket
- power supply: mains or car battery



12" Portable TV Set NEPTUN 150

- plastic cabinet with a carrying handle
- module design
- high sensitivity
- automatic frequency control/AFC/ with a switch
- seven-position programme selector
- headphone output socket
- power supply: mains or car battery



12" Portable TV Set NEPTUN 163

- plastic cabinet with a carrying handle
- module design
- high sensitivity
- automatic frequency control/AFC/with a switch
- seven-position programme selector
- headphone output socket
- power supply: mains or car battery



12" Portable TV Set NEPTUN 171

- plastic cabinet with a carrying handle
- single horizontal printed circuit board design
- high sensitivity
- automatic frequency control/AFC/ with a switch
- six-position programme selector
- headphone output socket
- power supply: mains or car battery



14" Portable TVC Set VESTA 202

- plastic cabinet with a carrying handle
- remote control
- automatic PAL/SECAM switching
- eight-position programme selector
- telescopic aerials
- brightness, contrast, saturation, volume controls
- output power 2,5 W
- RGB input
- video input/output
- headphone socket



22" Colour TV Set SYRIUSZ 502

- remote control
- electronic tuner
- 29-position programme selector
- PAL/SECAM
- brightness, contrast, colour saturation and volume control
- fast sound suppression
- output sound power 2.5 W
- euro-junction socket for video or computer



22" Colour TV Set NEPTUN 547

- modular chassis
- remote control
- electronic tuner
- 30-position programme selector
- brightness, contrast, saturation, volume controls
- output power 5 W
- RGB input
- video input/output
- headphone socket
- tape recorder output



22" Colour TV Set HELIOS 507

- remote control
- electronic tuner
- 4-position programme selector
- PAL/SECAM
- brightness, contrast, colour saturation and volume control
- fast sound suppression
- output sound power 2.5 W



14" Portable TVC Set NEPTUN 202

- plastic cabinet with a carrying handle
- single-board modular chassis
- automatic PAL/SECAM switching
- eight-position programme selector
- key-button AFC switch
- brightness, contrast, saturation, volume controls
- output power 2 W
- RGB input
- video input/output
- headphone socket
- tape recorder output



Cassette Recorder

Radio Recorder



Cassette Recorder MK 250

- portable mono cassette recorder • battery and mains supply
- automatic recording level control • built-in microphone



Cassette Recorder MK 450

- data recorder • recording and playback of analog and digital signals • tape counter
- analog and digital inputs • special input for "start/stop" control • battery and mains supply
- automatic recording level control • built-in microphone



Type	MK450	MK250
tape speed (cm/s)	4.76	4.76
frequency response (Hz) — analog signal — digital signal	80-10.000 limited playback / frequency response signal forming system / in playback line	80-10.000
S/N ratio (dB)	> 51	> 51
output power (W)	0.7	0.7
power supply — mains — battery	220 V/50 Hz 7.5 V	220 V/50 Hz 7.5 V
dimention (mm)	149 x 269 x 49	149 x 269 x 49
weight (kg)	1.3	1.3

Stereo Radio Recorder HANIA

- designed for Fe, Cr and Fe-Cr tapes • SUPER STEREO electronic improvement of stereo effect
- automatic recording level control • AUTO STOP • tape position counter
- 2 built-in electret microphones • tone control • mains-on indicator
- four-band radio



Cassette Decks	MDS 455	MDS 450	MDS 445	MDS 440	M 9010	M 9201	M 3015
Tape speed (cm/s)	4.76	4.76	4.76	4.76	4.76	4.76	4.76
Wow and flutter (%)	0.2	0.18	0.15	0.15	0.15	0.15	0.15
Frequency response (Hz)	Fe	30-15.000	30-15.000	30-15.000	30-15.000	30-15.000	30-14.000
	Cr	30-16.000	30-16.000	30-16.000	30-16.000	30-16.000	30-15.000
	Metal	30-16.000	30-16.000	30-16.000	30-17.000	30-17.000	—
SN ratio (dB) Cr tapes	60	62	60	72	63	63	60
Non-linear distortion (%)	Fe	0.9	0.7	0.7	0.9	0.5	0.3
	Cr	2.5	2.5	2.5	2.5	1.5	1.7
	Metal	2.5	2.5	2.5	2.5	2.5	0.25
Crosstalk attenuation (dB)	40	40	40	51	35	35	35
Noise reduction system	Dolby B*)	Dolby B*)	Dolby B*)	Dolby B*)	Dolby B*)	Dolby B*)	Dolby B*)
Power consumption (VA)	22	20	20	20	15	18	6
Dimensions (mm)	350x110x260	350x110x260	440x90x260	440x90x260	440x117x230	440x120x180	350x117x200
Weight (kg)	5	5	7.5	7	6.4	7	6
Manufacturer	UNITRA-DIORA	UNITRA-DIORA	UNITRA-DIORA	UNITRA-DIORA	UNITRA-ZRK	UNITRA-ZRK	UNITRA-ZRK

Headphones	SD 102	SD 103	SD 106	SD 112	SD 501	SD 409	SD 504M
Impedance (Ohm)	600	600	32	32	600	600	600
Frequency response (Hz)	20-20.000	20-20.000	20-20.000	20-20.000	20-20.000	20-20.000	20-20.000
Efficiency (dB/mV)	94	94	100	95	102	94	102
Maximum power (mW)	100	200	100	100	250	250	250
Distortion (%)	1	1	1	> 1	1	> 1	1
Weight (kg)	0.23	0.22	0.087	0.046	0.370	0.32	0.500

Tuners		CS 201	ZM 101	Amplifier	
Wave bands	LW (KHz)	150-285	150-285	Output power (W)	
	MW (KHz)	525-1.605	525-1.605	2x20	
	KW (KHz)	—	—	Frequency response (Hz)	
	FM (MHz)	87.5-108	87.5-108	20-20.000	
Sensitivity SW (mV/m)	LM (mV/m)	0.60	0.50	Non-linear distortion (%)	
	MW (mV/m)	0.30	0.25	.05	
	KW (mV/m)	—	—	Crosstalk attenuation at 1 kHz (dB)	
	FM (μV)	0	1	65	
Selectivity FM (dB)	80	60	Tone control range (dB) : 100 Hz		
S/N ratio (dB)	66	66	+13		
Crosstalk attenuation (dB)	38	46	Adjusted Frequencies (Hz)		
Frequency response (Hz)	40-12.500	30-15.000	60;250;1.000		
			4.000;16.000		
			loudspeakers output impedance (Ohm)		
			8		
			S/N ratio (D)		
			aux		
			Crosstalk attenuation (dB)		
			95		
			Input impedance (Ohm)		
			8		
			aux		
			47		

Record Player			Cassette Deck	
Automation	—	manual		
Drive system	—	belt		
Speed (r.p.m)	—	33 1/3	Tape speed (cm/s)	4.76
Wow and flutter (%)	—	0.30	Wow and flutter (%)	.18
Frequency response (Hz)	—	20-18.000		.25
Crosstalk attenuation (dB)	—	18	Frequency response (Hz)	Fe
Stylus pressure (g)	—	4-6		30-15.000
Cartridge	—	UF 70		Cr
			Metal	
			30-16.000	
			30-16.000	
			S/N ratio (dB) Cr Band	
			62	
			60	
			Non-linear distortion (%)	
				Fe
				.70
			Cr	
			2.50	
			Metal	
			2.50	
			—	
			Crosstalk attenuation (dB)	
			40	
			40	
			Noise reduction system	
			Dolby B	
			Dolby B	

Loudspeaker System		
Rated power (W)	10	—
Music power (W)	15	—
Frequency range (Hz)	80-15.000	—
Power consumption (VA)	20	20
Dimension (mm)	350x110x260	365x321x338
Weight (kg)	5	7
Manufacturer	UNITRA-ELTRA	UNITRA-DIORA

Portable radios		LIZA	ZOSIA	ANIA	RE-125	TOLA	DONATA	R-124	ROXANA	HALINA
LM (kHz)	150-285	148.5-283.5	150-285	150-285	227 kHz	48.5-283.5	150-285	150-285	170-285	148.5-283.5
MW (kHz)	525-1605	526.5-1606.5	525-1605	525-1605	—	526.5-1606.5	525-1605	—	525-1605	526.5-1606.5
SWI (MHz)	—	—	5.8-16	—	—	5.95-15.6	5.8-10.5	—	5.95-6.2	5.95-6.20
SWII (MHz)	—	—	—	—	—	—	11.6-18.2	—	7.1-7.3	7.10-7.30
SWIV (MHz)	—	—	—	—	—	—	—	—	9.4-9.9	9.50-9.90
SWV (MHz)	—	—	—	—	—	—	—	—	—	—
SWVI (MHz)	—	—	—	—	—	—	—	—	—	—
FM (MHz)	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108
LM (mV/m)	2	2.5	2	2	2	2	2	5	5	2
MW (mV/m)	1	1.2	1	1	1.20	1	1	—	2.50	1
SW (µV)	—	—	50	—	50	—	60	—	50	50
FM (µV)	10	mono 7 stereo 60	10	18	6	6	10	5	8	10
Output power (W)	0.3	0.4	0.8	0.15	1	1	1.60	0.190	0.3	1.5
Batteries (V)	6	7.5	7.5	6	9	9	9	4.5	9	7.5
Power supply	—	220 V; 50 Hz	220 V; 50 Hz	—	220 V; 50 Hz	220 V; 50 Hz	220 V; 50 Hz	—	220 V; 50 Hz	220 V; 50 Hz
Dimensions (mm)	166x101x43.5	200x128x48.5	200x128x48	174x80x50	245x130x64	245x130x64	288x176x76	138x75x30	230x135x40	240 x 130 x 51
Weight (kg)	0.35	0.8	0.65	0.4	1.2	1.2	2.1	0.3	0.8	1
Manufacturer	ZR. ELTRA	ZR. ELTRA	ZR. ELTRA	ZR. RZESZOW	ZR. ELTRA	ZR. ELTRA	ZR. ELTRA	ZR. RZESZOW	ZR. RZESZOW	ZR. ELTRA

Loudspeaker Systems	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGB 110-8-684	110	150	35-20,000	8	1.4 ; 4	92	400x710x320	23
ZGB 80-8-684	80	100	45-20,000	8	1.2 ; 4	91	360x650x315	19
ZGB 70-8-684	70	90	45-20,000	8	1.2 ; 4	91	350x590x260	14
ZGC 50-8-682	50	70	50-20,000	8	3.7	90	256x456x228	5
ZGB 100-8-98	100	150	55-20,000	8	2 ; 7	92	320x845x270	18
ZGB 120-8-59	100	120	45-20,000	8	2 ; 5	92	320x845x270	18
ZGB 200-8-59	200	250	35-20,000	8	3 ; 5.6	94	320x1045x270	25
ZGC 100-8-70	100	120	45-20,000	8	1.5 ; 8	89	300x810x280	14
ZGC 60-8-70	60	80	50-20,000	8	1 ; 10	91	300x810x280	14
ZGB 100-8-20	100	150	40-20,000	8	1.5 ; 6	90	330x650x315	15
ZGB 90-8-20	90	130	40-20,000	8	1.5 ; 6	88	330x590x265	13
ZGB 80-8-15	80	130	50-20,000	8	2 ; 7	89	330x480x250	12
ZGF 40-8-85	40	65	50-20,000	8	5 ; 7	89	260x440x210	5.5
ZGF 35-8-285	35	60	50-20,000	8	5 ; 7	89	260x440x210	6.5
ZGF 35-8-85	35	60	50-20,000	8	5 ; 7	89	260x440x210	5.5
ZGF 20-8-85	20	35	70-20,000	8	5 ; 7	91	260x440x210	5
ZGC 30-8-522	30	45	65-20,000	8	5	89	150x240x140	4.5
ZGC 30-8-122	30	40	65-20,000	8	4	87	150x240x140	2.8
ZGC 30-8-95	30	50	100-20,000	8	5	89	224x366x194	7

ZGC 30-8-06	30	50	100-20,000	8	5	88	224x366x194	7
ZGC 50-8-07	50	60	75-20,000	8	5 ; 15	86	224x366x194	4.5
ZGC 60-8-42	60	70	50-20,000	8	1.5 ; 5	89	180x300x145	7
ZG 20/C/S	30	40	70-20,000	4 oder 6	4	85	230x132x114	2.6
ZG 30/C/S	40	50	60-20,000	4 oder 6	4	87	270x152x134	3.5
ZGS 10-8-577	10	15	200-10,000	4 oder 6	—	90	170x115x92	0.55
ZGS 10-8-526	10	15	200-10,000	4 oder 6	—	90	170x115x92	0.55

Microphones

Microphones	MDU 39	MD 274	MD277	MD249	MD268	MC 381	MC 265	MC 358	MCO 52	MCU 53
Impedance (Ohm)	200	300	200	700	200 ; 750	40	40	200	200	200
Sensitivity (mV/Pa)	1.70	1.40	1.60	1.50	1.7 ; 2.8	25	10	20	5.6	7-10
Frequency response (Hz)	50-18,000	50-15,000	50-15,000	70-15,000	50-15,000	22-20,000	20-20,000	20-20,000	20-20,000	20-20,000
Directional Characteristic	cardioid	supercardioid	cardioid	cardioid	cardioid	supercardioid	cardioid	supercardioid	circle	cardioid
Weight (kg)	0.33	0.31	0.36	0.23	0.2	0.16	0.12	0.3	0.22	0.22

Radio recorders

Radio recorders	RMS 321	MANUELA	EDYTA	CONDOR	RMS 404	RMS 303	HANIA	RMS 451	RMS 475	JOASIA	BOGNA	EMILIA	RM 121	RM 132
LM (kHz)	148.5-283.5	150-280	148.5-283.5	165-285	145-305	150-285	150-285	150-285	150-285	150-285	148.5-283.5	150-285	150-285	45-275
MW (kHz)	526.5-1606.5	525-1605	526.5-1606.5	525-1605	510-1020	525-1605	525-1605	525-1605	525-1605	525-1605	526.5-1606.5	525-1605	525-1605	—
SWI (MHz)	5.95-15.6	5.8-16	5.95-15.6	5.95-15.45	5.85-18.2	5.9-16	5.9-16	—	—	—	5.95-15.6	—	5.9-16	—
SWII (MHz)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FM (MHz) CCIR	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108	87.5-108
bw. OIRT	65.5-74	65.5-74	65.5-74	und 65.5-74	65.5-74	65.5-74	65.5-74	65.5-74	65.5-74	65.5-74	65.5-74	65.5-74	65.5-74	65.5-74
LM (mV/m)	3	2.5	2.5	1.4	1.5	3	4	3	3	3	3	3	3	3
MW (mV/m)	1.5	1.5	1.5	0.6	1	1.5	2.5	1.5	1.5	1.5	1.5	2	0.8	—
KW (µV)	30	50	50	30	15	70	50	—	—	50	50	50	20	—
FM (µV)	5	10	5	3	1.5	5	10	6	6	10	10	10	5	6
Tape speed (cm/s)	4.76	4.76/9.52	4.76/9.52	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76	4.76
Wow and flutter (%)	0.3	0.4	0.3	0.25	0.2	0.3	0.35	0.3	0.3	0.4	0.4	0.4	0.3	0.4
S/N ratio (dB)	55	48	48	50	53	52	48	52	52	51	51	51	54	53
Crosstalk attenuation (dB)	20	20	20	26	30	35	20	35	35	—	—	—	—	—
Output power (W)	2x3.5	2x5	2x10	2x5	2x3.5	2x1	2x1	2x1	2x1	2x1.75	1	1	0.7	1
Power supply	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz	220 V/50 Hz
Batteries	12 V	13.5 V	15 V	15 V	9 V	9 V	9 V	9 V	9 V	7.5 V	7.5 V	7.5 V	9 V	9 V
Dimensions (mm)	510x140x140	540x159x126	636x216x160	590x250x140	476x247x121	340x160x61.5	380x170x75	328x195x82	516x190x95	338x130x87	278x123x68	266x157x63	284x150x75	280x136x69
Weight (kg)	4.2	6	5.4	6.5	5	2.7	2.7	2.7	4	2	1.6	1.95	1.8	1.7
Manufacturer	ZRK	ELTRA	ELTRA	LUBARTOW	ZRK	ZRK	ELTRA	ZRK	ZRK	ELTRA	ELTRA	ELTRA	ZRK	ZRK

TV Sets

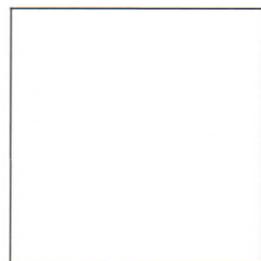
TV Sets	VELA 203	VELA 205	VELA 206	NEPTUN 150	NEPTUN 163	NEPTUN 171	NEPTUN 202	VESTA 202	NEPTUN 547	HELIOS 507	SYRUSZ 503
Standards	OIRT, CCIR	OIRT, CCIR	OIRT, CCIR	OIRT, CCIR	OIRT, CCIR						
System	—	—	—	—	—	—	—	—	—	—	—
Picture tube	31 cm 110*	36 cm 110*	36 cm 90*	56 cm 110*	56 cm 110*	56 cm 110*					
Power consumption (W)	45/20	45/20	45/20	25/17	25/17	40/20	60	65	90	90	90
Sound output power (W)	1	1	1	1	1	1	2.5	1.5	2.5	2.5	2.5
Power supply	220 V	220 V	220 V	220 V	220 V						
Dimensions (mm)	12 V	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz					
Weight (kg)	315x270x260	330x275x280	325x325x255	310x260x240	310x260x240	298x320x270	490x390x350	370x390x400	700x480x475	700x480x475	780x540x470
Manufacturer	UNITRA-WZI	UNITRA-WZI	UNITRA-WZI	UNITRA-UNIMOR	UNITRA-UNIMOR	UNITRA-UNIMOR	UNITRA-UNIMOR	UNITRA-WZI	UNITRA-UNIMOR	UNITRA-WZI	UNITRA-WZI

Record Players

Record Players	GS 461	GWS 302	GWS 116	GWS 121
Automation	semi-automatic	manual	manual	manual
Drive system	belt	friction-roller	belt	belt
Speed (r.p.m.)	33 1/3-45	33 1/3-45	33 1/3-45	33 1/3-45
Pitch control range (%)	=2	—	—	—
Weighted value of vibration (dB)	-58	-52	-52	-52
Wow and flutter (%)	0.15	0.3	0.3	0.3
Output power (W)	—	2x6	2x6	2x5
Frequency response (Hz)	20-18,000	40-16,000	40-16,000	40-16,000
Crosstalk attenuation (dB)	22	18	18	18
Stylus pressure (g)	1.5-3	4.6	4.6	4.6
Cartridge	MF104	UF70	UF70	UF70
Power consumption (VA)	10	20	25	20
Dimensions (mm)	440x125x360	380x120x320	380x122x320	390x110x270
Weight (kg)	6.5	7	6.3	6.5
Manufacturer	UNITRA-FONICA	UNITRA-FONICA	UNITRA-FONICA	UNITRA-FONICA

Compact Disc Player	CDP 001	CDP 002
Dynamic range (dB)	96	96
Non-linear distortion (%) 1 kHz	less then 0.01	less then 0.01
Crosstalk attenuation (dB) 1 kHz	93	93
Frequency response (Hz)	10-20.000	10-20.000
D/A Converter	16 Bit linear	16 Bit linear
S/N ratio (dB)	108	108
Power consumption (VA)	12	12
Dimensions (mm)	350x80x280	420x280x80
Weight (kg)	3.5	4.0
Manufacturer	UNITRA-FONICA	UNITRA-FONIC

Car Radios	SAFARI 6 Stereo	SAFARI 5	SAFARI 6
Wave bands			
LM (kHz)	150-285	150-285	150-285
MW (kHz)	525-1.605	525-1.605	525-1.605
FM (MHz)	87.5-108	87.5-108	87.5-108
Sensitivity			
LW (μ V)	130	130	130
MW (μ V)	50	50	50
FM (μ V)	3	3	3
Frequency response (Hz)	100-12.000	100-12.000	100-12.000
Output power (W)	2x6	6	6
Current consumption (A)	1.2	0.6	0.6
Power supply (V)	12	12	12
Dimensions (mm)	180x46x100	180x46x100	180x46x100
Weight (kg)	0.8	0.8	0.8
Manufacturer	UNITRA-DIORA	UNITRA-DIORA	UNITRA-DIORA



UNITRA

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Fernschreiber: 8 14 878 uni pl
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Stereo Radio Recorder RMS-451

- SUPER STEREO electronic improvement of stereo effect
- stepwise treble control
- automatic recording level control
- 2 built-in electret microphones
- three-band radio



Stereo Radio Recorder RMS-475

- SUPER STEREO electronic improvement of stereo effect
- stepwise treble control
- automatic recording level control
- 2 built-in electret microphones
- three-band radio



Stereo Radio Recorder RMS 303

- SUPER STEREO electronic improvement of stereo effect
- automatic recording level control
- AUTO-STOP
- SLEEP — programmable automatic switch off system
- 2 built-in electret microphones
- tape position counter
- LED-type tuning indicator
- four-band radio



Stereo Radio Recorder RMS 404

- automatic recording level system
- SUPER STEREO — electronic improvement of stereo effect
- 2 built-in electret microphones
- tape position counter
- LED-type battery condition and sound level indicator
- SLEEP — programmable automatic switch off system
- precise tuning to the selected broad-casting station
- treble control
- SOFT TOUCH — aided operation of tape transport controls
- four-band radio
- CUE/REV — audio monitoring possibility of momentary rewinding during playback
- four-band radio



Stereo Radio Recorder MANUELA

- double cassette deck
- high-speed dubbing
- suitable for Fe, Cr and METAL tapes
- separate bass and treble control
- automatic recording level control
- 2 built-in electret microphones
- LED — type power and stereo signal indicators
- four-band radio



Stereo Radio Recorder CONDOR

- LED-type tuning indicator
- LED-type stereo indicator
- WIDE-system to electronically simulate widening of the stereo basis, steplessly adjustable
- manual and automatic recording level control
- DNL — noise reduction system
- AUTO-STOP
- 2 built-in electret microphones
- separate bass and treble control
- INTIM — an attenuator system which makes it possible to lower the full scale volume range thus improving volume control precision
- SPARE — an energy saving system to extend battery life
- five-bands radio



Stereo Radio Recorder RMS 321

- double cassette deck
- AUTO-STOP
- SUPER STEREO — electronic improvement of stereo effect
- automatic recording level control
- 2 built-in electret microphones
- separate bass and treble control
- SOFT TOUCH — aided operation of tape transport controls
- four-band radio



Stereo Radio Recorder EDYTA

- double cassette deck • high-speed dubbing
- designed for Fe, Cr and METAL tapes • 4 band graphic equalizer • detachable twoway loudspeakers • ACPS-continuous play • AUTO-STOP • 2 built-in electret microphones • tape position counter • four-band radio



Radio Recorder RM 121

- automatic recording control • AUTO-STOP
- stepwise treble control • built-in electret microphone
- SLEEP — programmable automatic switch off system
- four-band radio



Radio Recorder EMILIA

- automatic recording control • AUTO-STOP
- built-in electret microphone • four-band radio



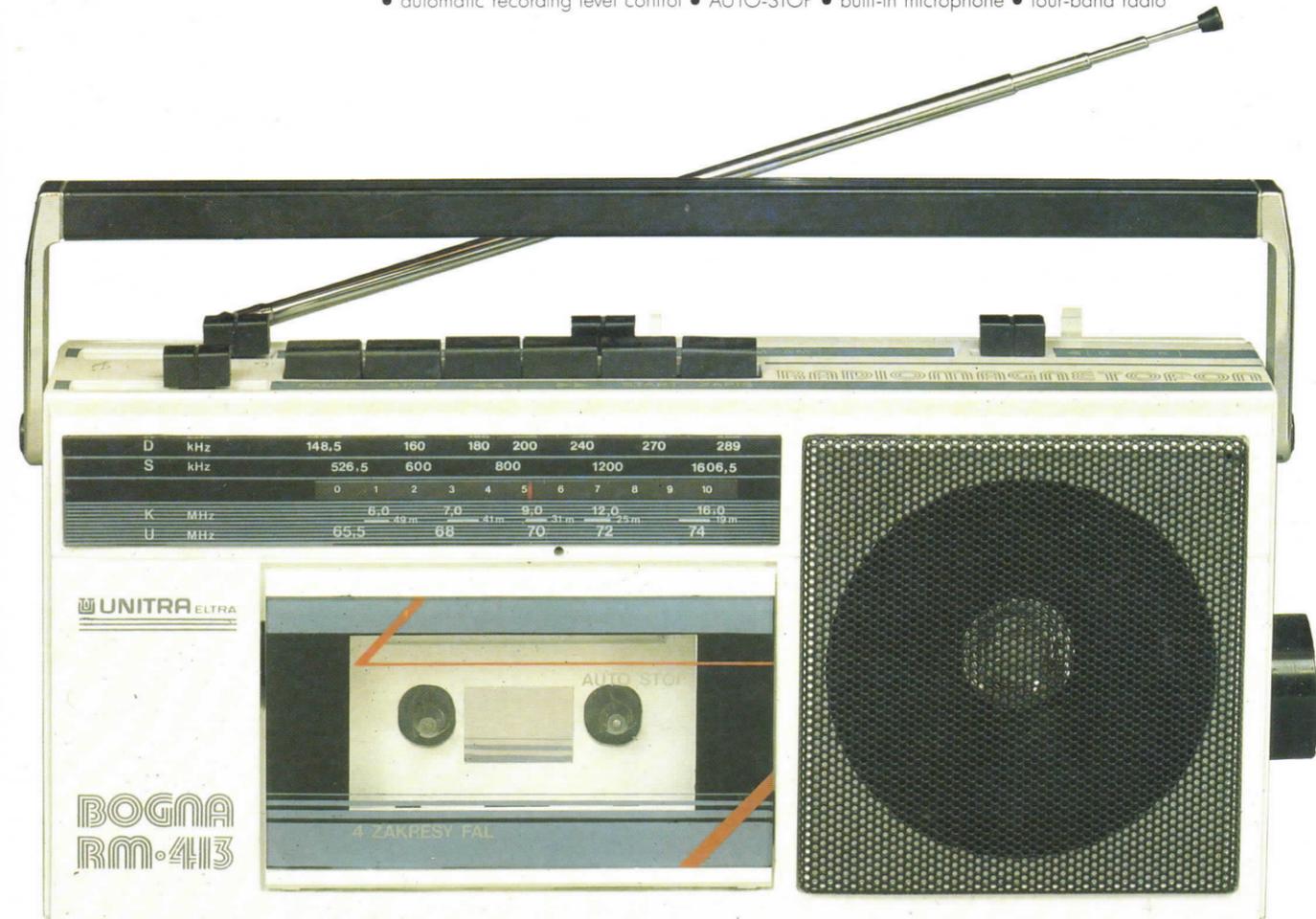
Radio Recorder RM 132

- automatic recording level control • AUTO-STOP • built-in microphone • two-band radio



Radio Recorder BOGNA

- automatic recording level control • AUTO-STOP • built-in microphone • four-band radio



Radio Recorder JOASIA

- automatic recording level control • AUTO-STOP • built-in microphone
- LED — type power indicator • four-band radio



Portable Radio



Portable Radio LIZA

- portable radio • three-band-battery • supply
- headphone socket • mono



Portable Radio ZOSIA

- portable radio • three-band • possibility to use as stereo portable radio with a headphones only • battery and mains supply • mono/stereo



Clock Radio RE-125

- clock radio • two-band • analog quartz clock • separately battery supply for radio and clock
- mono • alarm function (beeping signal or music)



Portable Radio ANIA

- portable radio • four-band • battery and mains supply • headphones socket • mono



Portable Radio HALINA

- portable radio • ten-band • double superheterodyne system for short waves
- separate bas and treble controls • mains and battery supply • mono



Portable Radio DONATA

- portable radio • five-band • battery and mains supply • mono • automatic FM frequency control • operation as an amplifier for a record players with piezoelectric cartridge
- separate bass and treble controls





Portable Radio R-124

- pocket radio • two-band • battery supply
- headphones socket • mono

Portable Radio ROXANA

- nine-band
- battery and mains supply
- mono • tone control
- headphone socket



Portable Radio TOLA

- portable radio • four-band
- battery and mains supply
- mono



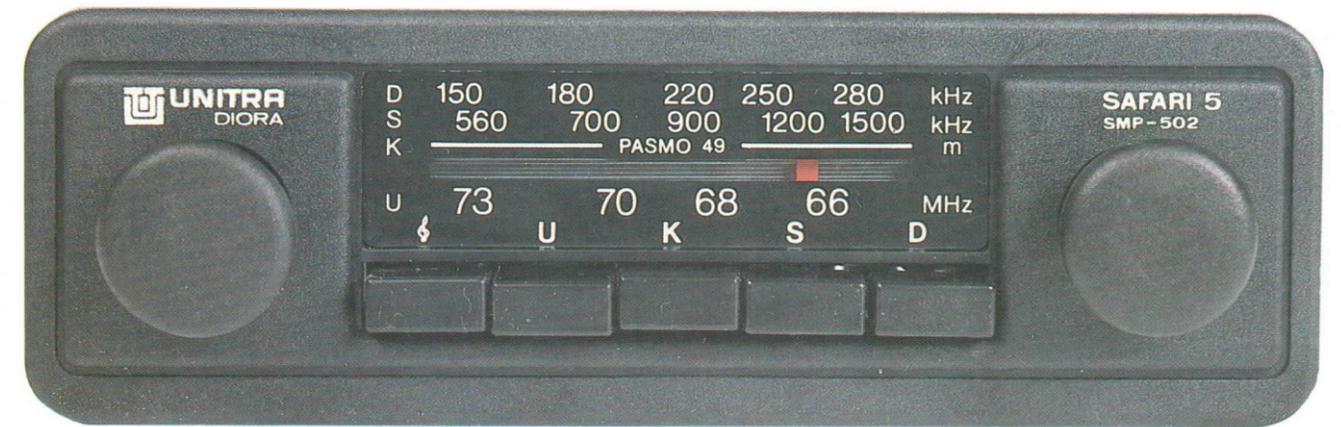
Car Radio SAFARI 6 Stereo

- stereo radio • 3 bands LW, MW, FM • switch on indicator • rotary band-control • small size • designed for cars with negative ground/or positive optionally • volume and ton controls • output power 2 x 6 W



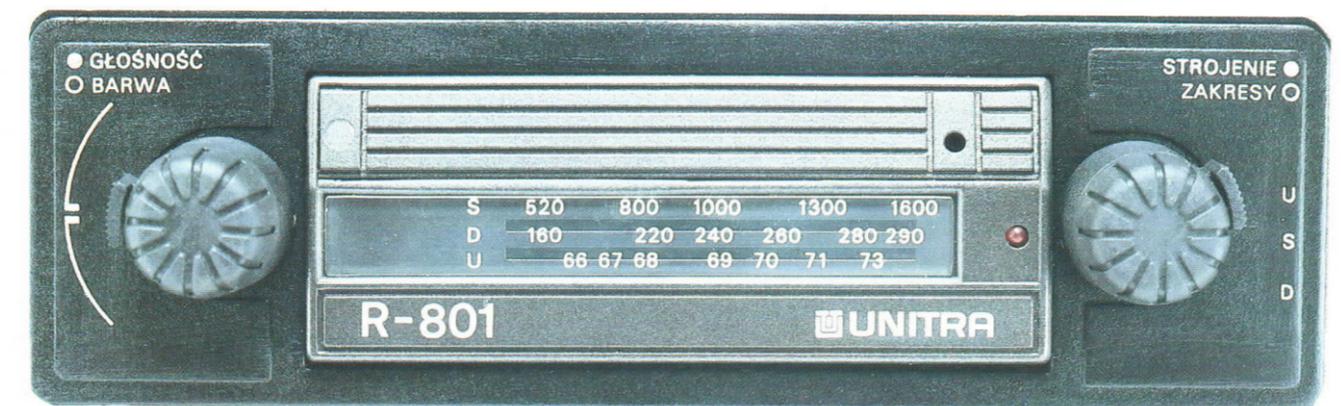
Car Radio SAFARI 5

- mono radio • 3 bands LM, MW, FM • switch on indicator • push button for band control • small size • designed for cars with negative ground/or positive optionally • volume and ton controls • output power 6 W

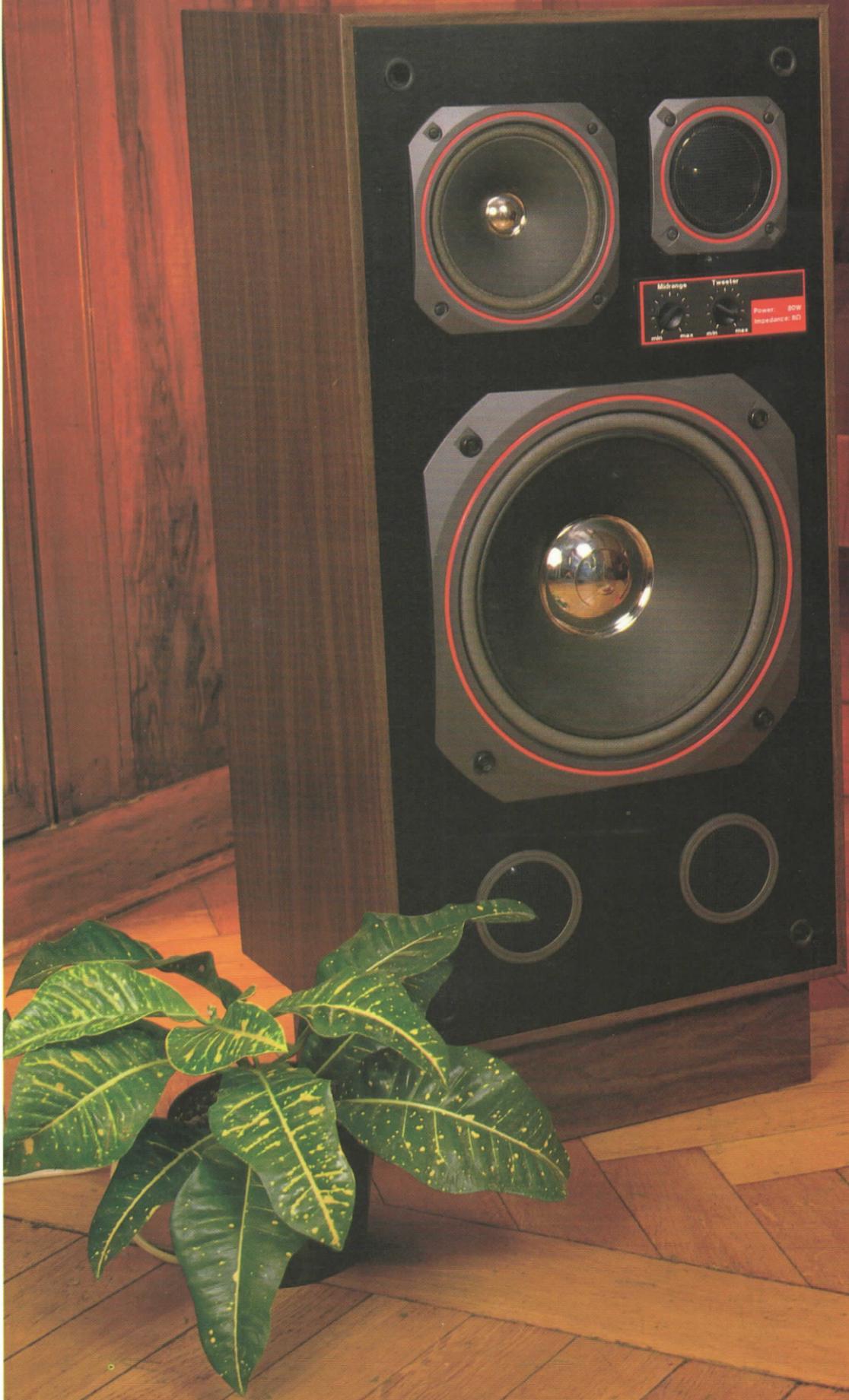


Car Radio SAFARI 6

- mono radio • 3 bands LW, MW, FM • switch on indicator • rotary band controls • small size • designed for cars with negative ground/or positive optionally • volume and ton controls • output power 6 W



Loudspeaker Systems



Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGB 110-8-684	110	150	35-20.000	8	1.4 ; 4	92	400x710x320	23
ZGB 80-8-684	80	100	45-20.000	8	1.2 ; 4	91	360x650x315	19
ZGB 70-8-684	70	90	45-20.000	8	1.2 ; 4	91	350x590x260	14
ZGC 50-8-682	50	70	50-20.000	8	3.7	90	256x456x228	5



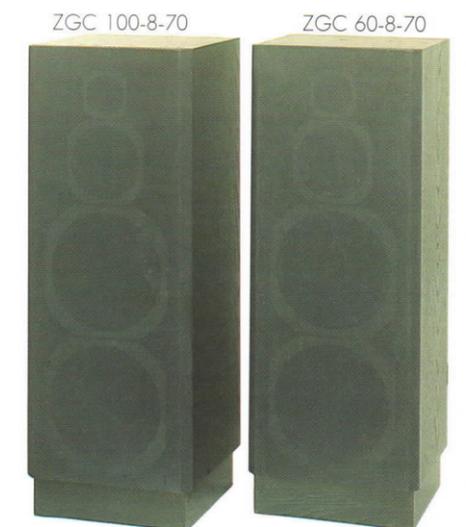
Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGB 100-8-20	100	150	40-20.000	8	1,5 ; 6	90	330x650x315	15
ZGB 90-8-20	90	130	40-20.000	8	1,5 ; 6	88	330x590x265	13
ZGB 80-8-15	80	130	50-20.000	8	2 ; 7	89	330x480x250	12



Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGB 100-8-98	110	150	55-20.000	8	2 ; 7	92	320x845x270	18
ZGB 120-8-59	100	120	45-20.000	8	2 ; 5	92	320x845x270	18
ZGB 200-8-59	200	250	35-20.000	8	3 ; 5.6	94	320x1045x270	25



Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGC 100-8-70	100	120	45-20.000	8	1.5 ; 8	89	300x810x280	14
ZGC 60-8-70	60	80	50-20.000	8	1 ; 10	91	300x810x280	14



Loudspeaker Systems

Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGP 40-8-85	40	65	50-20.000	8	5 ; 7	89	260x440x210	5.5
ZGP 35-8-285	35	60	50-20.000	8	5 ; 7	89	260x440x210	6.5
ZGP 35-8-85	35	60	50-20.000	8	5 ; 7	89	260x440x210	5.5
ZGP 20-8-85	20	35	70-20.000	8	5 ; 7	91	260x440x210	5



Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGC 30-8-522	30	45	65-20.000	8	5	89	150x240x140	4.5
ZGC 30-8-122	30	40	65-20.000	8	4	87	150x240x140	2.8
ZGC 30-8-95	30	50	100-20.000	8	5	89	224x366x194	7
ZGC 30-8-06	30	50	100-20.000	8	5	88	224x366x194	7
ZGC 50-8-07	50	60	75-20.000	8	5 ; 15	86	224x366x194	4.5
ZGC 60-8-42	60	70	50-20.000	8	1.5 ; 5	89	180x300x145	7



Loudspeaker System

Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZG 20/C/S	30	40	70-20.000	4 oder 6	4	85	230x132x114	2.6
ZG 30/C/S	40	50	60-20.000	4 oder 6	4	87	270x152x134	3.5



Type	Rated Power W	Music Power W	Frequency response Hz	Impedance Ω	Crossover frequency kHz	Efficiency dB	Dimensions mm	Weight kg
ZGS 10-8-577	10	15	200-10.000	4 oder 6	—	90	170x115x92	0.55
ZGS 10-8-526	10	15	200-10.000	4 oder 6	—	90	170x115x92	0.55



Accessories





Sd 102



Sd 103



Sd 106



Sd 504M



Sd 112



Sd 409



Sd 501



MD249

MD268

MD 248

MD 274

MD 274

MD277



MD 248

MD 274

MDU 39a

MD 274

MD277



MC 265

MC 381

MC 358



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