

Multimedia/Source Units Features

		MULTIMEDIA				SOURCE UNITS										
		VRX756VD	VXZ756	TB851P/853W	DB346MPV	HX-D2	DXZ956MC	DXZ856MP	DXZ756MC	DXZ656MP	DXZ556MP	DB456MC	DB356MP	DB256	DB156	ADB341MP
		DVD Multimedia Station with Touch Panel Control	DVD/CD/MP3/WMA Receiver / CeNET Control	8-inch Wide Colour LCD TV	CD/MP3/VCD Receiver	CD/MP3/WMA Receiver / CeNET & Touch Panel Control	CD/MP3/WMA Receiver / CeNET & Touch Panel Control / MUSIC CATCHER	CD/MP3/WMA Receiver / CeNET & Touch Panel Control	CD/MP3/WMA Receiver / CeNET Control / MUSIC CATCHER	CD/MP3/WMA Receiver / CeNET Control	CD/MP3/WMA Receiver / CeNET Control	CD/MP3/WMA Receiver / MUSIC CATCHER	CD/MP3 Receiver	CD Receiver	CD Receiver	CD/MP3/Cassette Receiver
Multi-media	Fully Motorised Wide Screen Colour LCD	7-inch		8-inch												
	-pixel display	336,960		336,960			38,400	38,400	7,680	7,680						
	Screen Resolution of	1440 x 234		1440 x 234			400 x 96	400 x 96	160 x 48	160 x 48						
Source	Touch Panel Control with Soil Resistant Finish	●					●	●								
	2 Zone Entertainment	●														
	Music Catcher Digital Recorder Built-in						●		●		●					
	Single Play DVD Mechanism plays: DVD Video, CD Audio, VCD	●	●													
	Plays MP3 and WMA Encoded CDs		●				●	●	●	●	●	●				
	Plays MP3 Encoded CDs	●			●								●			●
	Plays CD-R/RW	●	●		●	●	●	●	●	●	●	●	●	●	●	●
	Full Logic Cassette with Auto Reverse													●	●	●
	Auto Reverse															●
	Sound Make	AC Processor IV with Anti-Distortion Filter						●								
Anti-Distortion Filter								●	●							
5.1-channel Dolby Pro Logic / Dolby Digital AC3 / dts decoder			●													
Dolby Pro Logic II							●									
Built-in DSP for Time Alignment, Seat Position, Virtual Space Enhancer						Digital Time Alignment	●									
3-Band Parametric EQ		●				5-Band	●									
2-Band Parametric EQ			Z-Enhancer Plus					●	●	Z-Enhancer Plus	Z-Enhancer Plus					
Z-Enhancer EQ					●							●	●	●	●	●
3-Band Graphic EQ													●	●	●	●
Built-in adjustable High Pass Crossovers for Front/Rear/Centre Channels: Through/50Hz/80Hz/120Hz						●	●	●	●	●	●					
Audio	Built-in adjustable Low Pass Crossover with Subwoofer Volume Control: 50Hz/80Hz/120Hz		●			●	●	●	●	●						
	Magna Bass EX	●	●		●						●	●	●	●	●	●
	24-Bit D/A Converter	●	Burr-Brown			Burr-Brown	●	●	●	●	●	●	●	●	●	●
	High Power	53W x 4	52W x 4		50W x 4	—	53W x 4	53W x 4	53W x 4	53W x 4	53W x 4	52W x 4	51W x 4	51W x 4	51W x 4	50W x 4
	2 Zone Control	●														
	Shock Proof Memory (45sec.)						●		●			●				
	4-Volt/6ch Gold Plated RCA Line Level Output					Max 8V / 8ch	●	●								
	6ch RCA Line Level Output	●	●						●	●						
	4ch RCA Line Level Output				●						●					
	2ch RCA Line Level Output			●								●	●	●	●	●
Appearance	Built-in Amplifier Bypass Circuit (=AMP Canceller)	●	●				●	●	●	●	●	●	●	●	●	●
	Stainless Faceplate						●	●								
	Aluminium Faceplate				●				●	●						
	728 Variable Color LCD and 728 Variable Color Buttons (12 presets and 3 users)								●	●						
	Optimedia Display (Touch Panel Control)						●	●								
	Full Color Full Dot LCD	●		●			●	●								
	Auto Dimmer						●	●								
	Retractable Rotary Volume Control								●	●	●					
	Rotary Volume Control		●		●	●	●	●	●	●	●	●	●	●	●	●
	Screen Saver with User-Programmable Message Information		●					●	●	●	●	●				
Others	Adjustable Display Contrast		●				●	●	●	●	●					
	LCD with Spectrum Analyzer						●	●	●	●						●
	Motorised Detachable Control Panel						●	●	●	●						
	Flip-Down Detachable Control Panel												●			Flip-Down only
	CD Text, CD Titling, Station Titling	●	●			CD Text only	●	●	●	●	●	●	●	●	●	●
	IR Remote Control	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Radio Presets	●	18FM / 6AM	●	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM	18FM / 6AM
	Detachable Control Panel with Blinking LED for Anti-Theft	18FM / 6AM						●	●	●	●					
	Detachable Control Panel		●		●							●	●	●	●	
	Partially Detachable Control Panel															
Extention	CeNET Control of :	●														
	DVD Changer	●				●	●	●	●	●						
	TV tuner	●	●	●		●	●	●	●	●						
	Dolby Digital/dts 5.1ch Processor	●				●	●	●	●	●						
	6-Disc CD Changer	●	●			●	●	●	●	●						
	Fibre Optical Output for Use with Dolby Digital/dts 5.1ch Processor	●														
	Video Input	●		2ch												
	A/V Input	1+TV+DVD A/C		1ch												
Other Features	Video Output	1ch	2ch	1ch (CCA623)	1ch											
	Adjustable AUX Input	1ch	2ch			4ch (2ch x 2)	2ch	2ch	2ch	2ch	2ch					
	AUX input	—														2ch
	Others	● Full-Loading ● No Hide-away		● Trinity Motion System		● 96 kHz Sampling ● Silver-Coated 6N RCN Cable ● Copper-Plated Chassis										

CD Magazines



CAA-397-900
Spare 6-CD Magazine
• For DCZ625, DC625, DCZ625V, VCZ625

iPod Cable

CCC-649 NEW
iPod Connecting Cable
• For VRX756VD

iPod Interface

EA1251 NEW
CeNET iPod Interface

Spare DCP

Visual Model	DCP Number	Visual Model	DCP Number
VRX756VD	DCP-534-800	VRX746VD	DCP-494-800
VXZ756	DCP-536-800	VXZ646	DCP-470-800
Audio Model	DCP Number	Audio Model	DCP Number
DXZ956MC	DCP-538-800	DXZ946MP	DCP-490-800
DXZ856MP	DCP-540-800	DXZ846MC	DCP-471-800
DXZ756MP	DCP-513-800	DXZ746MP	DCP-487-800
DXZ656MP	DCP-520-800	DXZ646MP	DCP-488-800
DXZ556MP	DCP-522-800	DXZ546MP	DCP-489-801
DB456MC	DCP-526-800	DB346MP	DCP-472-800
DB356MP	DCP-505-800	DB246	DCP-473-800
DB256	DCP-506-800		
DB156	DCP-528-800		

Remote Controls



RCB-147-600
Steering Remote Control
• For VRX756VD, VRX935VD, VXZ756, DXZ956MC, DXZ856MP, DXZ756MC, DXZ656MP, DXZ556MP, DB456MC, DB356MP, DB346MPV, DB256, DMZ637MP, ADZ625, ADX6655z, AX610, AX430



RCB-164
Remote Control
• For VRX935VD, VRX746VD, VRX835, VRX610P, DXZ946MP, DXZ846MC, DXZ746MP, DXZ646MP, DXZ546MP, DMZ637MP, ADZ625, ADX6655z, ADX5655z, AXZ610, DB346MP, DB246



RCB-172 NEW
Remote Control
• For VXZ756, DXZ956MC, DXZ856MP, DXZ756MC, DXZ656MP, DXZ556MP, DB456MC, DB356MP, DB346MPV, DB256

RCA Transfer Cable



CCA-389
Mini 8-pin (DIN) to RCA Transfer Cable

CCA-623
RCA Transfer Cable for TB851P/TB853W
• 1-ch RCA (L/R/V) input, 1-ch RCA video output

TV Antennas



ZCA-404
4-Way Diversity Antenna



ZCB-303
Window-Type 2-Way Diversity Antenna
• Cable length: 4 m



ZCP104
4-Way Amplified Diversity Inside Window Film TV Antenna for TTX7501z/TTX7503z/TTX754



ZCP-100
Whip and Window Type 4-Way Diversity Antenna



EA-1060A
Antenna Booster

Optical Cables



Model No	Terminal Shape		Length
	Out	In	
DCA-005	VRX935VD/VRX756VD/VCZ625 (New)	DVH940 (New)	5 m
DCA-006	DCZ625 (Old)	DVH940 (New)	5 m
DCA-007	VRX935VD/VRX756VD/VCZ625 (New)	DPH910, DV9755z(Old)	5 m
DCA-008	VRX935VD/VRX756VD/VCZ625 (New)	DVH940 (New)	1.5 m

CeNET Cables



CCA-519
CeNET Branch Cable: 1 m



CCA-520
CeNET Extension Cable: 2.5 m

CCA-521
CeNET Extension Cable: 0.6 m

Noise Filters



NSA-131-200
Alternator Noise Filter
• Cuts alternator-induced engine noise. For max. 10A alternators.



NSA-132-200
Alternator Noise Filter
• Cuts alternator-induced engine noise. For max. 30A alternators.



NSA-133-200
Power-Driven Parts Noise Filter
• Eliminates noise caused by electric motors such as wipers, washer or heater.



NSA-134-200
Electric Switching Noise Filter
• Eliminates electric switching noise produced by electric fuel injection systems or when turn indicators or stop lights operate.



NSA-135-200
Ignition Noise Reduction Filter
• Eliminates buzzing or crackling produced by the car ignition.

Multimedia Centres

Model	VRX756VD	VRX935VD	VXZ756
Screen Size (W x H), mm	154.0 x 87.0 (7-inch)	154.0 x 87.0 (7-inch)	
Display Type	Transparent-type TN liquid crystal display	Transparent-type TN liquid crystal display	
Drive Principle	TFT (Thin Transistor) active matrix display	TFT (Thin Transistor) active matrix display	
Number of Pixels	336,960	336,960	
VRC Video Input	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	1.0 ± 0.2 Vp-p (input impedance 75 Ω)	
VRC Audio Input	130 ± 60 mVrms (input impedance 10 kΩ or more)	130 ± 60 mVrms (input impedance 10 kΩ or more)	
Frequency Bands			
FM: (MHz) 0.05 MHz steps	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0
AM: (kHz) 9 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629
FM Usable Sensitivity (dBf)	9	9	9
FM 50 dB Quieting Sensitivity (dBf)	15	15	15
FM Alternate Channel Selectivity (dBf)	70	70	70
FM Stereo Separation @ 1 kHz (dB)	35	35	35
FM Stereo Freq. Resp. @ ±3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000
Useable Discs	DVD video disc	DVD video disc	DVD video disc
Frequency Response (Hz)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)	20 to 22,000 (48 kHz) (+1 dB/-1 dB)
Distortion	0.01	0.01	0.02
Wow/Flutter (WRMS)	Below measurable limits	Below measurable limits	Below measurable limits
S/N Ratio (dB) 1 kHz			90
Frequency Response (Hz)	20 to 20,000 (+1 dB/-1 dB)	20 to 20,000 (+1 dB/-1 dB)	20 to 20,000 (+1 dB/-1 dB)
Dynamic Range (dB) 1 kHz			
Harmonic Distortion (%)	0.01	0.01	0.02
Power Output (DIN45324, +B = 14.4 V)	31W x 4	31W x 4	27W x 4
Maximum Power Output	53W x 4	53W x 4	52W x 4
Dimensions (W x H x D), mm	178 x 50 x 165	178 x 50 x 165	178 x 50 x 160
Hide-away unit (W x H x D), mm		178 x 37.5 x 209	
Weight (kg)	2.4	2.3	1.6
Power Consumption	4.0 A (at 1 W)	4.0 A (at 1 W)	less than 15A
Power Requirement	14.4 V DC (10.8 - 15.6 V)	14.4 V DC (10.8 - 15.6 V)	14.4 V DC (10.8 - 15.6 V)
Speaker Impedance	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)	4 Ω (4 Ω to 8 Ω allowable)

Colour LCD Monitors

Model	OHM756VD	OHM153	OHM102	VMA753	VMA553	TB851P/853W	TB741P	TB742P	TB743W
Screen Size (W x H), mm	7-inch	15.3-inch	10.2-inch	7-inch	5.8-inch Wide	8-inch	7-inch Wide	7-inch Wide	7-inch Wide
Drive Principle	TFT active matrix	TFT active matrix	TFT active matrix	TFT active matrix	TFT active matrix	TFT (Thin Transistor) active matrix display	TFT active matrix	TFT active matrix	TFT active matrix
Number of Pixels	336,960	336,960	336,960	336,960	280,800	336,960 (234 x 1440)	336,960	336,960	336,960
VRC Video Input						1.0 ± 0.2 Vp-p (input impedance 75 Ω)			
Dimensions (W x H x D) mm	232 x 336 x 31.5	381 x 50.8 x 333.3	254 x 50.8 x 228.6	270 x 310 x 150 (W/Stand) 270 x 230 x 46 (W/O Stand)	188 x 130 x 36	178 x 50 x 188	178 x 50 x 160	178 x 50 x 160	178 x 50 x 160
Weight (kg)	1.6	1.45	1.2	1.1	1.1	2.2	1.8	1.8	1.8
Power Consumption	1.5 A	1.0 A	1.9 A	0.8 A	0.8 A	2.0A	3.0 A	3.0 A	3.0 A
Power Requirement	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	14.4 V DC (10.8 - 15.6 V)	14 V DC	14 V DC	14 V DC

Radio CD Combinations

Model	HX-D2	HX-D1	DRX9255EXL	DXZ956MC	DXZ856MP	DXZ756MC	DXZ656MP
Frequency Bands							
FM: (MHz) 0.05 MHz steps	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0
AM: (kHz) 9 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629
FM Usable Sensitivity (dBf)	9	9	12	9	9	9	9
FM 50 dB Quieting Sensitivity (dBf)	15	15	18	15	15	15	15
FM Alternate Channel Selectivity (dBf)	70	60	60	70	70	70	70
FM Stereo Separation @ 1 kHz (dB)	35		25	32	32	35	35
FM Stereo Freq. Resp. @ ±3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000
Wow/Flutter (WRMS)	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limits	Below measurable limits
S/N Ratio (dB)	112	110	110	100	100	100	100
Frequency Response (Hz)	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000	5 to 20,000
Dynamic Range (dB)	100	100	100	96	95	95	95
Harmonic Distortion (%)	0.003	0.005	0.005	0.006	0.01	0.01	0.01
Power Output (DIN45324, +B = 14.4 V)				31W x 4	31W x 4	31W x 4	25W x 4
Maximum Power Output				53W x 4	53W x 4	53W x 4	53W x 4
Dimensions (W x H x D), mm	178 x 50 x 178	178 x 50 x 182	178 x 50 x 168	178 x 50 x 160	178 x 50 x 160	178 x 50 x 155	178 x 50 x 155
DC/DC Converter (W x H x D)mm	175 x 43 x 99	186 x 28 x 71	186 x 28 x 71				
Remote Control (W x H x D), mm	52 x 125 x 12			43.4 x 112.7 x 12.5	43.4 x 112.7 x 12.5	43.4 x 112.7 x 12.5	43.4 x 112.7 x 12.5
Weight (kg)	1.7	1.6	1.8	1.7	1.7	1.6	1.6
Power Consumption: less than	1.4A	1.1A	1.1A	15A	15A	15A	15A
Speaker Impedance	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)

Radio CD Combinations

Model	DXZ556MP	DB456MC	DB356MP	DB346MPV	DB256	DB156
Frequency Bands						
FM: (MHz) 0.2 MHz steps	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0	87.0 to 108.0
AM: (kHz) 10 kHz steps	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629	531 to 1,629
FM Usable Sensitivity (dBf)	9	9	11	11	11	11
FM 50 dB Quieting Sensitivity (dBf)	15	15	17	17	17	17
FM Alternate Channel Selectivity (dBf)	70	70	75	75	75	75
FM Stereo Separation @ 1 kHz (dB)	35	35	35	35	35	35
FM Stereo Freq. Resp. @ ±3 dB (Hz)	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000	30 to 15,000
Wow/Flutter (WRMS)	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits	Below measurable limits
S/N Ratio (dB)	100	100	100	100	100	100
Frequency Response (Hz)	5 to 20,000	5 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000	10 to 20,000
Dynamic Range (dB)	95	93	95	95	93	93
Harmonic Distortion (%)	0.01	0.03	0.01	0.01	0.01	0.03
Power Output (DIN45324, +B = 14.4 V)	25W x 4	25W x 4	25W x 4	25W x 4	25W x 4	25W x 4
Maximum Power Output	53W x 4	52W x 4	51W x 4	51W x 4	51W x 4	51W x 4
Dimensions (W x H x D), mm	178 x 50 x 155	178 x 50 x 155	178 x 50 x 152	178 x 50 x 152	178 x 50 x 152	178 x 50 x 155
DC/DC Converter (W x H x D)mm						
Remote Control (W x H x D), mm	43.4 x 112.7 x 12.5	43.4 x 112.7 12.5	43.4 x 112.7 12.5	43.4 x 112.7 12.5		
Weight (kg)	1.3	1.3	1.1	1.1	1.1	1.2
Power Consumption: less than	15A	15A	15A	15A	15A	15A
Speaker Impedance	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)	4 Ω(4 Ω to 8 Ω allowable)

AM/FM Cassette Centres

Model	AX330	AB230
TUNER	FM : (MHz) 0.05 MHz steps AM : (kHz) 9 kHz steps Wow & Flutter	87.5 - 108 531 - 1,629 0.08 %
TAPE	Metal Tape, No NR Metal Tape, 70 µs	58 dB 30 - 20,000 Hz
AUDIO	Maximum Power Output	40 W x 4
GENERAL	Weight Dimensions (W x H x D) mm	1.3 kg 178 x 50 x 155

2-DIN AM/FM CD/MP3/Cassette Centre

Model	ADB341MP
TUNER	FM : (MHz) 0.05 MHz steps AM : (kHz) 9 kHz steps Wow & Flutter
TAPE	Metal Tape, No NR Metal with Dolby B NR Frequency Response Metal Tape, 70 µs Wow & Flutter (unmeasurable)
CD	Signal-To-Noise Ratio Frequency Response Dynamic Range Harmonic Distortion
AUDIO	Maximum Power Output
GENERAL	Weight Dimensions (W x H x D) mm

Processor

Model	DVH940
Signal-To-Noise Ratio	95 dB (IEC-A, LPF22K)
Distortion	THD+N 0.01 % (LPF22K)
Separation	80 dB (LPF22K)
Input Sensitivity	RCA SENSE, LOW=2 V, MID=1.2 V, HIGH=0.6 V
Subwoofer Cut Off Frequency	50 Hz, 80 Hz, 120 Hz
Subwoofer Level Control	SP-GAIN, SUB-W → ±10 dB (1dB/step) A-MODE, SUB-W → -6 (18 dB)~+3dB (6 dB)
Max. Output Voltage	4 Vrms
Input Impedance	47 kΩ
Output Impedance	300 Ω
Power Requirement	NA
Parametric-EQ Number of Bands	3-BAND x 3 (Front/Rear/Centre)
Q	1 - 20 (5points)
Equaliser Centre Frequency Range:	
Front & Rear	20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1k, 1.25k, 1.6k, 2k, 2.5k, 3.15k, 4k, 5k, 6.3k, 8k, 10k, 12.5k, 16k, 20k
Centre	Same as Front/Rear
Subwoofer	NA
Parametric-EQ Boost/Cut Range	±12 dB
Time Correction Control Range	Centre 0 - 5 ms (1 ms/step) Rear 0 - 15ms (1 ms/step)
Frequency Response	20 - 44,000 Hz (±1 dB)
Weight	0.95 kg
Dimensions (W x H x D) mm	230 x 25 x 170

MP3 ID3 Tag

MP3 decoding	Mpeg1 (ISO/IEC 11172-3)	Mpeg2 (ISO/IEC 13818-3)
Fs: 32 kHz, 44.1 kHz, 48 kHz Bit Rate: 64/80/96/112/128/160/192/224/256/320 kbps *1 VBA *4, *5		Fs: 16 kHz, 22.05 kHz, 24 kHz Bit Rate: 40/48/56/64/80/96/112/128/144/160 kHz *1 VBA *4, *5
Channel Mode	Joint Stereo, Stereo, Mono *3	
Folder structure	Parents-Child Sorting	
No. of folders	128	
No. of files	254	
No. of characters for folder display	16	
No. of characters for file display	28	
MP3 ID3 Tag Version Supported	Version 1.X, 2.X	
No. of characters for ID3 Tag Info.	28	
(Artist name, Album name & Title name)		

- *1. For acceptable sound quality, a bit rate of 112 kbps or more is recommended.
- *2. Depending on the used encoder, noise may occur at the beginning or end of the tune.
- *3. Playable channel modes are joint stereo, stereo, and mono.
- *4. Recommended bit rate for VBR is 64 kbps-320 kbps.
- *5. For tunes recorded using VBR, the displayed track timemap differ slightly from the actual length.

DVD/VCD/CD Changers

Model	VCZ625	DCZ625V	DC625	DCZ625
Wow/Flutter	Below measurable limit	Below measurable limit	Below measurable limit	Below measurable limit
Signal-To-Noise Ratio	90 dB	105 dB	105 dB	105 dB
Frequency Response	20 - 20,000 Hz	5 - 20,000 Hz (±1 dB)	5 - 20,000 Hz (±1 dB)	5 - 20,000 Hz (±1 dB)
Dynamic Range	95 dB	95 dB	95 dB	95 dB
Harmonic Distortion	0.02 %	0.01 %	0.01 %	0.01 %
Weight	2.2 kg	1.7 kg	1.7 kg	1.7 kg
Dimensions (W x H x D) mm	230 x 83 x 183	225 x 63 x 167	225 x 63 x 167	225 x 85 x 167

Amplifiers

	APA4300HX	APA4320	APA2160
Continuous Power Output (20 - 20,000 Hz, 4 Ω)	4 x 75 W (4-ch. operation)	4 x 80 W (4-ch. operation)	2 x 80 W (2-ch. operation)
Max. Power Output	4 x 150 W	4 x 160 W	2 x 160 W
Frequency Response (Hz)	5 to 100,000 (-1 dB)	10 to 50,000 (+/- 1 dB)	10 to 50,000 (+/- 1 dB)
S/N Ratio at Min. Volume	112 dB	100 dB	100 dB
Power Consumption	48 A	37 A	19 A
Weight (kg)	5.0	3.9	2.7
Dimensions (W x H x D), mm	280 x 65 x 288	165 x 56 x 409	165 x 56 x 287
	APA450	APA250	DPX1200.1
Continuous Power Output (20 - 20,000 Hz, 4 Ω)	4 x 50 W	2 x 50 W	1 x 477 W
Max. Power Output	4 x 100 W	2 x 100 W	1 x 1200 W
Frequency Response (Hz)	10 to 50,000	10 to 50,000	10 to 50,000 (-3 dB)
S/N Ratio at Min. Volume	80 dB	80 dB	68 dB
Power Consumption	0.59 A	0.82 A	1.4 A
Weight (kg)	3.5	4.2	7.2
Dimensions (W x H x D), mm	277 x 61 x 334	277 x 61 x 259	275 x 60 x 484

FEATURE ICONS

Multimedia/Main Units

DVD Video Playback
The unit is compatible with the DVD Video format so you can watch DVD software in your car.

dts Control
Units with this logo are designed for connection and complete control of the external Clarion hide-away dts/Dolby Digital & Pro Logic II Decoders "DVH940" via CeNET.

Dolby Pro Logic II
Dolby Pro Logic II enables superior surround sound and positioning compared to the former version of surround system. More sophisticated decoding process maximizes the effect of surround sound from the source encoded with Dolby surround. In addition to that, Dolby Pro Logic II is designed to get 5.1-channel sound effect from any 2-channel software, which means you can enjoy perfect surround sound even if the software is in conventional stereo recording. "Phantom mode" is also available in which quasi 5.1-channel sound field is reproduced from 4-speaker system without centre speaker.

MP3/WMA
With decoders for both MP3 and WMA (Windows Media Audio™), you can play either type of ripped or downloaded audio file. Also supports ID3 Tag for display of metafile information. With digital compression, these formats enable up to 12 hours of music to be fit onto a single CD-R/RW while delivering CD-level quality.

CD Text
When a CD Text compatible CD is played, the artist name and tracks recorded on the CD are shown on the LCD screen.

Video CD Compatibility
Video CD can be played back on the unit.

iPod
iPod Interface lets you easily connect your iPod portable music player for seamless enjoyment of your musical collection.

Music Catcher System
Freely record, play and erase tunes using a built-in memory. It can store up to high quality music data files.

CD-R/RW
Capability to play back CD-R/RW audio discs you have recorded at home.

New Optimedia Display
Advanced human-machine interface that fuses high quality graphics and interactive touch-screen operation in an eye-catching design.

Stainless Steel Faceplate
Faceplate is constructed of stainless steel material to add a clean, cool look to the main unit in a way that matches well with most car interiors.

Aluminium Faceplate
Faceplate is constructed of aluminium material to add a clean, cool look to the main unit in a way that matches well with most car interiors.

Touch Panel
It only touches it in the fingertip, and it is the indication vessel which makes most machine control possible.

Variable Colour Display
This LCD display lets you mix RGB (Red/Green/Blue) levels to create the background colour (DXZ756MC, DXZ656MP). The control buttons on the faceplate automatically change colours to match the display.

Message Information
On select main units, you can display your own customized messages up to 30-characters. Messages are displayed when the unit is turned on or off.

Auto Dimmer
Automatically dims the displays brightness when the headlights are turned on so that the display is not a distraction during night time driving.

Rotary Volume Control
Adjusting the volume is easily done since you do not need to take your eyes off the road when turning the knob, thus ensuring safety while driving. The rotary control also has a retractable feature found on some models with RRC symbol which allows you to retract the button when the system is not in use.

Smart Control Key
One-finger easy, accessing the exact song you want to hear on a loaded CD has never been quicker or simpler.

Codematic
Four digit PIN code can be set for security purpose. Once the system is activated, the unit cannot be turned on until correct PIN code is entered. The function can be disabled if it is unnecessary.

Detachable Control Panel
To prevent theft and damage to your car entertainment system, the control panel can be detached from the unit and taken with you when leaving the car.

5.1-Channel Surround
The unit is compatible with Dolby Digital and dts to support 5.1-channel audio. Comprised of five channels (Left, Right, Centre, Rear Left and Rear Right) plus a dedicated low-frequency channel for a sub-woofer, this system reproduces the sound of movies and music with "being there" reality.

AC-Processor IV
DSP newly developed by Clarion's acoustic technology. In order to optimise the sound quality and filed balance, it incorporates various function such as ADF, VSE, Dolby Pro Logic II, 3-way Digital Crossover, Parametric EQ and Time alignment, being processed by single chip.

Digital 3-way Crossover
Digitally splits up the frequency range into three bands, feeding each to a separate driver - woofer, midrange and tweeter - for accurate sound with less distortion.

Time Alignment Control
Lets you easily adjust the time delay among the speakers to best suit your interior simply by choosing the type of your car.

VSE (Virtual Space Enhancer)
Lets you digitally compensate for irregular reflection, polarization, and other acoustic problems that may accompany your car's interior.

Anti-Distortion Filter
Eliminates phase distortion in high and low frequencies and emphasizes the natural frequency characteristics of the sound, for natural flat response and clear details.

Z-Enhancer Plus
Powerful bass and a fresh, crystal-clear treble. Adjustment for 3 different sound settings can be made in easy steps.

Z-Enhancer
Three types of sound quality patterns are pre-set for easy selection. Boost the bass only, the treble only, or both, with the level of boost adjustable by the user.

Magna Bass EX
Boosts the bass range in the vicinity of 50 Hz by nearly 10 dB, so the bass comes through loud and clear even if you're listening at low volume.

Low-Pass and High-Pass Filters
A filter that passes signals below a cut-off frequency (LPF) or above a cut-off frequency (HPF), used to optimize the signal for high or low frequency reproduction.

24-bit D/A Converter
Clarion's D/A converter requires the 16-bit data from CDs into 24-bit data for the delicate representation of rich musical tones.

Loop Back Circuit
Allows the built-in amplifier to amplify the signal from an external unit. Possible to connect the DVH940 for 5.1ch surround to enjoy DSP sound without an external amplifier.

Parametric EQ
Lets you adjust the equalization of each frequency band independently for the front, centre, and rear speakers.

2-Zone Entertainment
Function that allows people in the front and back seats to enjoy separate visual or audio entertainment sources.

Subwoofer Control
All main units have a dedicated subwoofer level control to give your more control over your system's bass performance. This even includes a low-pass crossover which, when selected (50Hz/80Hz/120Hz selectable), turns the rear channel RCA line level outputs into dedicated subwoofer outputs.

AMP Cancellor
Built-In Amplifier Bypass Circuit for clear sound.

Shock Proof Memory
It is the function which a maximum 45-second data memory has found that it is formed at the time of bad road running.

Audio Output
All units with this logo have audio outputs for external amplifiers. Some units with 4V output logo have high 4V audio output for high-quality sound. In addition, some Clarion units have Non-fade output for Subwoofer, and also selectable Loop Back Circuit for hide-away dts/Dolby Digital & Dolby Pro Logic II Decoders DVH940.

AUX Input
Accepts input signal from external unit.

CeNET
CeNET is a high-speed network for complete control of your car multimedia system. With CeNET, you can control components over a single network and easily add new functionality to your car multimedia system by simply connecting CeNET-compatible components.

Digital Optical Output
Building of a 5.1ch sound system which draws a definite sound figure in the car inside and to give should be made possible.

DVD Easy Control
DVD Easy Control, coupled with CeNET components, allows the following possibilities: • Scene / Title FF / FB • Play / Pause • Volume control: General / Centre / Sub-woofer • Audio muting • Balance and Fader control

TV Tuner Control
Unit with this logo can be connected with hide-away TV Tuners such as TTX7501z/7503z/754.

CD Changer Control
A 6-disc CD changer can be controlled from the main unit.

5.1-Channel Decoder Control
Allows direct control of all functions on DVH940 5.1ch Digital Surround Processor.

MOS-FET
MOS-FET transistors in the amplifier offer wide frequency response with minimal distortion, and dissipate less heat for high quality energy-efficient sound.

High Performance Power IC
Vertical power transistors are used in the amplifiers to provide high-efficiency, low-distortion output. Great for digital sources with their wide dynamic range.

High Power
With its powerful amplifier IC, Clarion has significantly raised the power limit in the realm of car audio. This improves dynamics and eliminates distortion across the entire frequency spectrum.

Speakers

Water-Resistant Cone
Water-resistant cones prevent sound-quality deterioration caused by moisture. Door mounting is possible without further protection.

Aluminium-Coated Polypropylene Cone
Clarion's high-rigidity, lightweight polypropylene cones have an ideal internal loss for woofers. The high input allows you to enjoy powerful digital audio with exceptional music quality.

Metalized MIPP Cone
Injection molded diaphragms use polypropylene compound with mica particles blended. Metalized MIPP cone provides additional rigidity while maintaining lightness for superior dynamic response.

Glass Fibre Cone
Featured on our high-end HX series and In-Phase coaxial series.

Mica Polypropylene Mixed Injection Cone
These injection molded diaphragms use polypropylene with mica particles blended in, with a molecular structure that radiates from the inside out, to attain the lightness and rigidity necessary to create speakers with superior response even to the fast transients of digital sources.

Rubber Surrounds
The rolled edge of the diaphragm provides superior response, while its butyl material is highly durable and moisture resistant. The result is a special rubber surround that cuts distortion and further improves linearity.

PEI Balanced Drive
The novel design features an integrated PEI diaphragm and voice coil bobbin. This design reduces the mass, and given the optimum induction conditions in the magnetic gap, the result is a dramatic improvement in dynamic range.

Dual 4-Ohm Voice Coil
Clarion's systems use dual voice coils to deliver perfect playback of large-amplitude bass. These coils also provide high sensitivity and excellent performance for digital audio and other large input sounds.

Neodymium Magnet
While extremely compact, the neodymium magnet also has very high magnetic energy (B_{Hmax}). The powerful magnetic field and minimum magnetic distortion deliver effortless sound.

Rear-Vented Pole Piece
To prevent pressure from building up inside the centre cap and causing increased amplitude distortion, a vent is provided on the rear of the pole piece, resulting in completely smooth cone movement, which contributes to the open, airy sound of the speakers.

Powerful Strontium Magnet
A high-conductivity magnet is used in Clarion's speaker systems to obtain an air-gap magnetic flux density significantly higher than that obtained from ferrite magnets. Combining this magnet with the heat-resistant voice coil results in speakers that are able to deliver powerful playback at large inputs with improved damping while maintaining the integrity of the digital source.

Large Strontium Ferrite Magnet
Offers all the benefits of the strontium magnet, and boosts the sonic reproductive power by using a large sized Strontium Ferrite magnet in the driver.

Variable Angle Tweeter in Coaxial Speakers
Unlike conventional 2-way speakers, these feature a tweeter that is adjustable for angle and can be aimed for precise high frequency imaging. When coaxial speakers are mounted in the most common door locations, the high frequencies are beamed at the driver and passenger's feet, reducing high frequency response and spatial imaging. By changing the angle so that the tweeter sends high frequencies to the listener's ears, high frequency response is increased, and spatial imaging is dramatically improved.

Wide-Range 80kHz Silk Dome Tweeter / Wide-Range 120kHz Silk Dome Tweeter
Uses soft silk dome diaphragms and high-power magnets to achieve rich expressiveness. Offers up to 80kHz or 120kHz maximum reproduction for crystalline highs.

Silk-Cloth Soft Dome Tweeter
Clarion's high-end tweeters use soft dome diaphragms laminated the suppleness

of silk, strengthened by the lamination layer, provides natural, finely detailed sound. These tweeters offer superb transient response, even at very low input levels, and can faithfully reproduce delicate pianissimo passages.

Air Compression
The air pressure developed on the back side of the speaker is compressed within the cabinet and propelled forward through the rear duct.

Counter Drive
With the driver mounted on the magnet side of the woofer cone, it enables a large caliber 20cm woofer to be fit inside a slim and compact body.

Lead-Free Solder
Solder used in product manufacturing is lead-free to help protect the environment.

Digital Ready
Featuring higher power handling, Clarion's Digital Ready speakers reproduce the wide dynamic range of Compact Discs and other digital media.

Inline Network
Allows speaker output level adjustment in three steps (0dB/-6dB/-12dB).