

# DENON

General catalogue  
2005-2006



Originated in 1910, Denon was the first audio company in Japan to sell LP records – as early as 1951. In the early 1970s, Denon developed and manufactured the world's first practical digital PCM recorder and, in 1972, launched the first-ever digitally recorded LPs.

Over the years, Denon has built a formidable reputation, earning respect and numerous accolades around the world as a manufacturer of exceptional quality hi-fi products.

Recently, Denon has incorporated this experience and expertise into top-range of Audio-Video components, establishing an enviable position as one of the world's leading home cinema brands.

Denon is known for pure yet stylish quality products and, most importantly, time-tested expertise and craftsmanship.

As an Audio-Visual manufacturer, Denon is devoted to producing audio and visual components at the technological forefront.

Today, the Denon name is synonymous with stunning high-impact visuals and dramatically detailed yet powerful surround sound.

From home cinema to hi-fi and S-series systems, the ambience created by each and every Denon product denotes the true essence of natural sound and an image of pure beauty.

# The art of reproduction

– Denon's ultimate aim for entertainment



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VCR-1  
VCR-2  
VCR-3  
VCR-4  
V.MIX

DBS

TV

VCR

PHONO

FM/AM

CD

MP3

FM

AM

POWER

DENON  
LINK

D-D-S-C  
ESSENTIAL

DTSY HDMI

DCD  
REPRODUCTION

Audyssey  
MULTIBAS

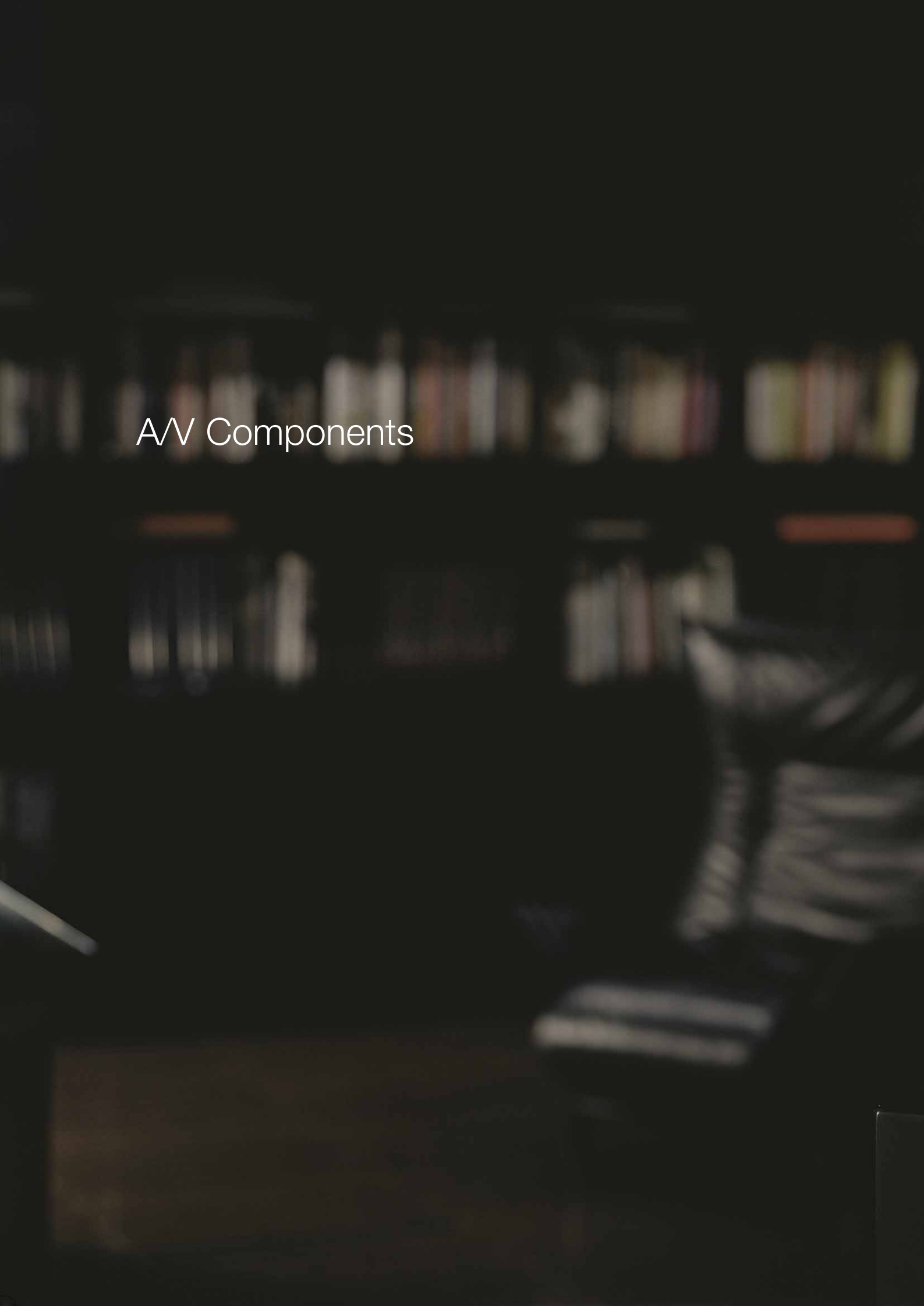
DOLBY  
DIGITAL-EX  
PRO LOGIC II

DTS  
96/24 ES  
24/192dB

THX SURROUND EX

THX  
CERTIFIED

# A/V Components







## AV Surround Amplifier AVC-A1XV



- 170 W x 10 (8 ohms)
- Fully Discrete, Equal Power 10 Amplifier Channels
- The New DDSC (Dynamic Discrete Surround Circuit)-Digital
- Advanced AL24 Processing
- 24-bit/192-kHz high-performance D/A converter
- DIR and A/D converter capable of 24-bit/192-kHz processing
- A large-capacity FPGA
- 3 of 32-bit floating point DSP
- A separate 32-bit floating point SHARC DSP for the second zone
- The latest high-accuracy 24-bit/192-kHz D/A converter for the audio DAC.
- Double differential operation
- DENON Link (3rd edition)
- IEEE 1394 digital interface
- Stabilised, independent power supplies for each circuit
- Chassis construction designed to resist Internal/External Vibration
- Upgradable Construction
- Pure Direct mode, for the pure enjoyment of music in high-quality sound
- Variable Gain Volume and Pre-amp
- New Auto Set-up and Room EQ featuring MultEQ from Audyssey, for overall listening area support
- THX, THX Surround EX, THX Ultra2
- Newly-developed video circuitry, for high picture quality

- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - Dolby Headphone - DTS-ES - DTS 96/24
  - DTS Neo:6 - DTS - HDCD
- HDMI/DVI digital video I/O terminals
- Component video switching
- Video up/down conversion
- I/P conversion and scaling
- High-speed, high-accuracy 12-bit/216-MHz video DAC
- Composite and S-video signal processing with TBC (Time Base Correction)
- Analog EXT IN terminal
- 4-zone, multi-room support
- Ethernet and RS-232C terminals
- Auto Surround Back Channels ON function
- Auto Surround mode
- EL remote controller for easy operation
- On-screen display, for easier, error-free operation
- Variable subwoofer crossover switching (40/60/80/90/100/110/120/150/200/250 Hz)
- Audio Delay function (max. 6 frames)
- 3 User Mode Buttons
- Optional Ethernet Upgrade available (Audio Streaming, Internet Radio and AV receiver Network Setup (Web control))





## AV Surround Amplifier AVC-A11XV



- 140 W x 7 W (8 ohms)
- THX Ultra2 Certified 7-channel High Power Amplifier
- 'New DDSC-Digital,' for dramatically improved processing performance
- 3 of 32-bit floating point DSP for the decoder.
- 24-bit/192-kHz D/A Converter for the audio DAC.
- A high-performance A/D converter of 24-bit/192-kHz quality has been used to significantly boost S/N and dynamic range.
- 'AL24 Processing Plus,' for high sound quality
- DENON Link (3rd edition)
- IEEE 1394 digital interface
- Large-output Power Amp Section and Power Supply Configuration, for stable high-power output
- Stabilised, independent power supplies for each circuit
- Chassis construction to suppress internal/external vibration
- Upgradable Construction
- Pure Direct mode, for the pure enjoyment of music in high-quality sound
- Multi-Assignable surround channels and surround back channels
- Pre-amp with Variable Gain Volume
- THX, THX Surround EX, THX Ultra2
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - Dolby Headphone - DTS-ES - DTS 96/24
  - DTS Neo:6 - DTS - HDCD

- New Auto Set-up and Room EQ, Featuring MultEQ from Audyssey, for overall listening area support
- Original surround modes from DENON
- Video Up/Down Conversion capable of output to HDMI
- Component video switching
- High-speed, high-accuracy Dual 12-bit/216-MHz Video DAC
- Composite and S-video signal processing with TBC (Time Base Correction)
- Analog EXT IN terminal
- 3-zone, multi-room support
- Ethernet and RS-232C terminals
- Auto Surround Back Channels ON function, for auto-detection of supporting sources
- Auto Surround mode
- A cursor key and Buttons on the front panel
- EL remote controller for easy operation
- On-screen display, for easier, error-free operation
- Variable subwoofer crossover switching (40/60/80/90/100/110/120/150/200/250 Hz)
- Muting level settings (∞/-40dB/-20db)
- Audio Delay function (max. 6 frames)
- 3 User Mode Buttons
- Optional Ethernet Upgrade available (Audio Streaming, Internet Radio and A/V receiver Network Setup (Web control))



## A/V Surround Receiver

# AVR-4306

- 130 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Hefty Power Transformer for Stable Supply of Power
- Newly-Developed Block Capacitor
- 'New DDSC-Digital,' for dramatically improved processing performance
- New Powerful 32-bit floating point DSP for the decoder
- 24-bit/192-kHz D/A Converter for the audio DAC
- 'AL24 Processing Plus,' for high sound quality
- DENON Link (3rd edition)
- Pure Direct mode
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS - HDCD
- Assignable surround back (L/R) amplifiers for front (L/R) channel bi-amping, or for Multi-zone playback
- New Auto Set-up and Room EQ, Featuring MultEQ from Audyssey
- Cinema Equaliser
- 5-ch/7ch Stereo Mode
- Adjustable Cross-Over Switching
- 8 channel Input for for DVD-Audio and Super Audio CD
- Serial Control Port
- Binding Post Speaker Terminal for All Channels
- High-quality Component Video In/Out Terminals (100-MHz Bandwidth)
- Video Up/Down Conversion capable of output to HDMI
- Component video switching
- I/P conversion and scaling
- Composite and S-video signal processing with TBC
- 12-bit/216-MHz Video DAC
- Auto Surround mode
- New EL remote controller for easy operation
- 3 User Mode Buttons
- Ethernet Connectivity
- Internet Radio Connectivity
- USB Host
- iPod® Connectivity (requires optional cable AK-P100)
- Personal Memory Plus
- 56-station AM/FM Random Preset Memory Tuning
- RDS (Radio Data System) with Radio TEXT



Black



## A/V Surround Receiver

# AVR-3806

- 120 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Hefty Power Transformer for Stable Supply of Power
- Newly-Developed Block Capacitor
- New DDSC-Digital, for High-quality Sound Reproduction
- New Powerful 32-bit floating point DSP for the decoder
- 24-bit, 192-kHz D/A Conversion for All-channels
- 24-bit, 192-kHz A/D Conversion
- 24-bit, 192-kHz Digital Interface Receiver
- DENON Link (3rd edition)
- Pure Direct and AL24 Processing Plus
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS - HDCD
- New Auto Set-up and Room EQ, Featuring MultEQ from Audyssey
- Cinema Equaliser
- 5-ch/7ch Stereo Mode
- Adjustable Cross-Over Switching
- 8 channel Input for for DVD-Audio and Super Audio CD
- Serial Control Port
- Binding Post Speaker Terminal for All Channels
- Surround A/B Speaker Switching
- Assignable surround back (L/R) amplifiers for front (L/R) channel bi-amping, or for Multi-zone playback
- High-quality Component Video In/Out Terminals (100-MHz Bandwidth)
- Video Up/Down Conversion capable of output to HDMI
- Composite and S-video signal processing with TBC
- 12-bit/216-MHz Video DAC
- Audio Delay Function
- Auto Surround mode
- New EL remote controller for easy operation
- 3 User Mode Buttons
- Night Mode
- Personal Memory Plus
- 56-station AM/FM Random Preset Memory Tuning



Black



## A/V Surround Receiver

# AVR-3805

- 120 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Hefty Power Transformer for Stable Supply of Power
- Newly-Developed Block Capacitor
- 32-bit Floating Point DSP
- New DDSC-Digital, for High-quality Sound Reproduction
- 24-bit, 192-kHz D/A Conversion for All-channels
- 24-bit, 192-kHz Analog-to-Digital Conversion
- 24-bit, 192-kHz Digital Interface Receiver
- DENON Link (3rd edition)
- Pure Direct and AL24 Processing Plus
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic Ix
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS - HDCD
- Auto Setup and Room EQ Function with Microphone
- Cinema Equaliser
- 5-CH/7-CH Stereo Mode
- Adjustable Cross-Over Switching
- Audio Delay Function
- 8-Channel Input for DVD-Audio or Super Audio CD
- Surround A/B Speaker Switching
- Support for Multi Zone Configurations
- Serial Control Port
- Binding Post Speaker Terminals for All Channels
- High-quality Component Video In/Out Terminals (100-MHz Bandwidth)
- Component Video Conversion
- Icon-based On-Screen Display
- EL Backlight Touch Panel Remote
- Personal Memory Plus
- RDS (Radio Data System)
- 56-station AM/FM



Black



## A/V Surround Receiver

# AVR-2805

- 100 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Hefty Power Transformer for Stable Supply of Power
- Newly-Developed Block Capacitor
- 32-bit Floating Point DSP
- 24-bit, 192-kHz D/A Conversion for All-channels
- Pure Direct and AL24 Processing
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic Ix
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS
- Auto Setup and Auto Room EQ Function with Microphone
- Cinema Equaliser
- 5-CH/7-CH Stereo Mode
- Adjustable Cross-Over Switching
- Audio Delay Function
- 8-Channel Input for DVD-Audio or Super Audio CD
- Front A/B Speakers
- Support for Multi Zone Configurations
- Serial Control Port
- Binding Post Speaker Terminals for All Channels
- High-quality Component Video In/Out Terminals (100-MHz Bandwidth)
- Component Video Conversion
- Icon-based On-Screen Display
- Personal Memory Plus
- GLO-KEY Remote
- RDS (Radio Data System) with Radio TEXT
- 56-station AM/FM



Black



## A/V Surround Receiver AVR-2106

- 90 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Power Transformer for High power Driven
- 3 sets of Component Video Inputs
- Twin Drive Rectifier
- Large Aluminum Extruded Heatsink
- S-Video Conversion
- New 32-bit Floating Point DSP
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS
- Assignable surround back (L/R) amplifiers for front (L/R) channel bi-amping
- Auto Setup with Microphone
- Auto Surround
- Cinema Equaliser
- 192 kHz, 24-bit Audio D/A Converters for All Channels
- 5-CH/7-CH Stereo Mode
- Adjustable Cross-Over Switching
- Binding Post Speaker Terminals for All Channels
- Front A/B Speakers
- High-quality Component Video In/Out Terminals (100MHz Bandwidth)
- 6-Channel Input for DVD-Audio or Super Audio CD
- Pure Direct Mode
- Audio Delay Function
- On Screen Display
- Personal Memory Plus
- GLO-KEY Remote
- RDS (Radio Data System) with Radio TEXT
- 56-station AM/FM Random Preset Memory Tuning



Black



## A/V Surround Receiver AVR-1906

- 80 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Power Transformer for High power Driven
- Twin Drive Rectifier
- Large Aluminum Extruded Heatsink
- S-Video Conversion
- New 32-bit Floating Point DSP
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS
- Auto Setup with Microphone
- Auto Surround
- Cinema Equaliser
- 192 kHz, 24-bit Audio D/A Converters for All Channels
- High-quality Component Video In/Out Terminals (100MHz Bandwidth)
- 3 Sets of Component Video Inputs
- 5-CH/7-CH Stereo Mode
- Adjustable Cross-Over Switching
- 6-Channel Input for DVD-Audio or Super Audio CD
- Binding Post Speaker Terminals for All Channels
- Assignable surround back (L/R) amplifiers for front (L/R) channel bi-amping
- Front A/B Speakers
- Audio Delay Function
- On Screen Display
- Personal Memory Plus
- GLO-KEY Remote
- RDS (Radio Data System) with Radio TEXT
- 56-station AM/FM Random Preset Memory Tuning



Black



# AV Surround Receiver

## AVR-1706

- 75 W x 7 (8 ohms)
- Fully Discrete, Equal Power 7 Amplifier Channels
- Power Transformer for High power Driven
- Twin Drive Rectifier
- Large Aluminum Extruded Heatsink
- New 32-bit Floating Point DSP
- Auto Setup with Microphone
- Support for the most advanced surround playback formats
  - Dolby Digital EX - Dolby Digital - Dolby Pro Logic IIx
  - DTS-ES - DTS 96/24 - DTS Neo:6 - DTS
- Cinema Equaliser
- 5-CH/7-CH Stereo Mode
- Virtual Surround Mode
- 192 kHz, 24-bit Audio D/A Converters
- Adjustable Cross-Over Switching
- Front Panel Inputs
- Front A/B Speakers
- Binding Post Speaker Terminals for All Channels
- 3 Sets of Component Video Inputs
- Personal Memory Plus
- RDS (Radio Data System) with Radio TEXT
- 56-Station AM/FM Random Preset Memory Tuning
- GLO-KEY Remote



	AVC-A1XV	AVC-A11XV	AVR-4306	AVR-3806	AVR-3805	AVR-2805	AVR-2106	AVR-1906	AVR-1706	AVR-1306
Auto Setup	x	x	x	x	x	x	x	x	x	
Room EQ	(Audyssey MultEQ)	(Audyssey MultEQ)	(Audyssey MultEQ)	(Audyssey MultEQ)	x	x				
THX ULTRA2	x	x								
THX SURROUND EX	x	x								
DOLBY DIGITAL EX	x		x	x	x	x	x	x	x	
DOLBY PRO LOGIC IIx	x	x	x	x	x	x	x	x	x	(Pro Logic II)
DTS-ES (Discrete6.1 / Matrix6.1 / Neo:6)	x	x	x	x	x	x	x	x	x	(Neo:6)
DTS 96/24	x	x	x	x	x	x	x	x	x	x
DDSC-Digital	x	x	x	x	x	x	x	x	x	
32bit Floating Point DSP	x (3 DSPs)	x (3 DSPs)	x (Hi-grade)	x (Hi-grade)	x	x	x	x	x	x
D/A Converter	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit	All Channel Equal 192kHz/24bit
AL24 Processing	x (Advanced)	x (plus)	x (plus)	x (plus)	x (plus)	x				
8 ohm Rated Power Output	170W	140W	130W	120W	120W	100W	90W	80W	75W	75W
Amplifier Channel	10ch	7ch	7 ch	7 ch	7ch	7ch	7ch	7ch	7ch	5ch
Assignable Amplifier	Fully Assignable	Front SP Bi-amp, Multi Zone	Front SP Bi-amp, Multi Zone	Front SP Bi-amp, Multi Zone	Multi Zone	Multi Zone	Front SP Bi-amp	Front SP Bi-amp		
Wide Range Frequency	x	x	x	x	x	x	x	x	x	x
Full Discrete All ch Equal Power Amplifier	x	x	x	x	x	x	x	x	x	x
Pure Direct	x	x	x	x	x	x	x			
Audio Delay	x	x	x	x	x	x	x	x	x	
Variable Gain Volume Control	x	x	x	x	x	x				
Serial Control	x	x	x	x	x	x				
Adjustable Sub-frequency	40/60/80/90/100/110/120/150/200/250	40/60/80/90/100/110/120/150/200/250	40/60/80/90/100/110/120/150/200/250	40/60/80/90/100/110/120/150/200/250	40/60/80/100/120/150/200/250	40/60/80/100/120/150/200/250	40/60/80/100/120/150/200/250	40/60/80/100/120/150/200/250	40/60/80/100/120/150/200/250	40/60/80/100/120/135/150/180/200
Component Video Switching	x	x	x	x	x	x	x	x	x	
Component Video IN/OUT Terminal	6 / 3	3 / 2	3 / 2	3 / 2	3 / 1	3 / 1	3 / 1	3 / 1	3 / 1	- / -
Component Video Band Width	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	
S-Video Switching	x	x	x	x	x	x	x	x	x	
S-Video IN/OUT Terminal	9 / 7	8 / 6	7 / 4	7 / 4	7 / 3	7 / 3	5 / 3	3 / 2	3 / 2	- / -
Video Conversion	(component, S-Video)	(component, S-Video, HDMI)	(component, S-Video, HDMI)	(component, S-Video, HDMI)	(component, S-Video)	(component, S-Video)	(S-video)	(S-video)		
EXT. Input	10ch x1, 6ch x1	8ch x1	8ch x1	8ch x1	8ch x1	8ch x1	6ch x1	6ch x1	6ch x1	6ch x1
Digital Audio Input (optical/coaxial)	6 / 6	5 / 3	5 / 2	5 / 2	5 / 2	5 / 2	4 / 2	3 / 2	2 / 2	2 / 2
Digital Audio Output	3	3	2	2	2	2	1	1	-	-
Analog Audio Input	3+Phono	3+Phono	2+Phono	2+Phono	2+Phono	2+Phono	2+Phono	3	3	3
Tuner			x	x	x	x	x	x	x	x
Pre Out	9.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	Subwoofer	Subwoofer
Audio/Video Input	9	8	7	7	7	7	5	4		
HDMI Input	3	3	3	2						
HDMI Output (*1)(*2)	1	1	1	1						
DVI Input	1	1								
DVI Output	1									
DENON Link	x	x	x	x	x					
Ethernet	x	x	x							
IEEE 1394	x	x								
HDCD Decoder	x	x	x	x	x					
ALL ch Binding Post SP Terminal	x	x	x	x	x	x	x	x	x	x
iPod Connectivity			x	x						
Surround SP A/B	x (configurable)	x	x	x	x					
Front SP A/B	x (configurable)	x (configurable)	x (configurable)	x (configurable)						

(\*1) Version 1.1 compliant. HDMI audio output capacity is dependent on the monitor being used.

(\*2) HDMI and DVI outputs are HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.

## 5.1ch Home Theater in a Box DHT-1356DV

AV Surround Receiver	<b>AVR-1306</b> (see page 11)
DVD-Video Player	<b>DVD-1720</b> (see page 17)
5.1ch Speaker System	<b>SYS-56HT</b> (see page 14)



Back panel of AVR-1306

## 5.1ch Home Theater in a Box DHT-1356XP

AV Surround Receiver	<b>AVR-1306</b> (see page 11)
5.1ch Speaker System	<b>SYS-56HT</b> (see page 14)



## 7.1ch Speaker System SYS-76HT

### Satellite Speaker / SC-A76

- 2-way 2speakers
- 9 cm Woofer x1
- 1,9 cm Tweeter x1
- Magnetically Shielded
- 120 (W) x 180 (H) x 156 (D) mm
- 1.6 kg

### Centre Speaker / SC-C76

- 2-way 3speakers
- 9 cm Woofer x2
- 1,9 cm Tweeter x1
- Magnetically Shielded
- 266 (W) x 120 (H) x 156 (D) mm
- 2.1 kg

### Active Subwoofer / DSW-76

- 20 cm Woofer x1
- 100 W (4 ohms, 55 Hz, 0.7% THD)
- Magnetically Shielded
- 262 (W) x 357 (H) x 434 (D) mm
- 11.7 kg



## 5.1ch Home Theater in a Box DHT-550SD



- Slim Body of Just 65 mm High, in High-grade Tactile Design
- 6-channel Digital Power Amp with Total Output of 600 Watts
- S-Video Conversion and Component switching
- On-screen Display
- Elegant Half Mirrored Dot Matrix Display
- 40-Station AM/FM Random Preset Memory Tuning
- RDS (Radio Data System) with Radio text
- Progressive-Scan Circuitry, for Superior Picture Quality
- RGB Output via SCART Terminal
- Expertly Designed Cabinet Made of Extruded Aluminum (Satellite Speaker/Centre Speaker)

## Home Theater System ADV-550SD

A/V Surround Receiver AVR-550SD +  
DVD-Video Player DVD-550SD



## 5.1ch Home Theater in a Box DHT-500SD



- Power Output 100 W x 6 (6 ohms)
- Progressive Scan (NTSC/PAL)
- Expandable to 6.1-channel playback system
- On-screen Display
- Elegant Half Mirrored Dot Matrix Display
- RGB Output via SCART Terminal
- 60-Station AM(30-Station)/FM(30-Station) Random Preset Memory Tuning
- RDS (Radio Data System) with Radio text
- 2-way 3speakers (P.P.D.D.) (Satellite Speaker/Centre Speaker)
- Expertly Designed Cabinet Made of Extruded Aluminum (Satellite Speaker/Centre Speaker)
- Magnetically Shielded (Satellite Speaker/Centre Speaker/Subwoofer)

## 2.1ch Home Theater in a Box

# D-M51DVS



- 35 W x 2 (6 ohms)
- SHARC 32-bit Floating Point DSP
- High-performance 96-kHz/24-bit A/D, D/A converters
- Quick Set Up function
- 40-station FM/AM Random Preset Memory Tuning
- RDS (Radio Data System) with Radio text
- A variety of timer functions (Everyday, Once, and Sleep timers)
- 2-way 3 speakers (P.P.D.) (Front Speaker)
- 16 cm Woofer (Active Subwoofer)
- Amplifier Output: 100W (Active Subwoofer)



## 5.1ch Home Theater in a Box

# DHT-M330DV



- Power Output 20 W x 6 (6 ohms)
- Auto Decode function automatically detects the sound format
- 40-station AM/FM Random Preset Memory Tuning
- RDS (Radio Data System) with Radio text
- Sound Enhancer (Centre/ Surround Channel)
- TV/VCR Preset Remote Control
- Progressive Scan (NTSC/PAL)
- On-screen Display
- RGB Output via SCART Terminal
- 2-way 2speakers (Satellite Speaker)
- 2-way 3speakers (Centre Speaker)
- Angle adjustable centre speaker stand (Centre Speaker)
- 16cm Woofer (Subwoofer (Passive))



	DHT-1356DV	DHT-1356XP	DHT-550SD	ADV-550SD	DHT-500SD	DHT-M330DV	D-M51DVS
DOLBY DIGITAL EX			x	x	x	x	x
DTS-ES (Discrete6.1 / Matrix6.1 / Neo:6)	(Neo:6)	(Neo:6)	x	x	x	x	x
DTS 96/24	x	x	x	x	x	x	x
DOLBY PRO LOGIC IIx	(Pro Logic II)	(Pro Logic II)	x	x	x	x	x
Power Amplifier	5ch	5ch	6ch	6ch	6ch	6ch	2ch
<b>Audio Inputs</b>							
Analog	3	3	4	4	2	2	2
Digital (Optical / Coaxial)	2 / 1	2 / 1	2 / 1	2 / 1	1 / 1	3 / -	1 / -
<b>Audio Outputs</b>							
Analog	2	2	2	2	1	1	2
Pre Out	1 (Subwoofer)	1 (Subwoofer)	3 (Subwoofer/ Surround Back L/R)	3 (Subwoofer/ Surround Back L/R)	3 (Subwoofer/ Surround Back L/R)	3 (Subwoofer/ Surround Back L/R)	1 (Subwoofer)
Digital Optical/Coaxial	1 / 1	1 / 1	1 / -	1 / -	1 / -	-	1 / -
<b>Video Inputs</b>							
Composite / S-Video / Component	4 / - / - (Receiver)	4 / - / - (Receiver)	3 / 3 / 2	3 / 3 / 2	2 / - / -	-	-
<b>Video Outputs</b>							
SCART / Component / Composite / S-Video	- / - / 2 / - (Receiver)	- / - / 2 / - (Receiver)	1 / 1 / 1 / 1	1 / 1 / 1 / 1	1 / 1 / 2 / 1	1 / 1 / 1 / 1	1 / - / 1* / 1*
SCART RGB Output	x	-	x	x	x	x	x
DVD-VIDEO	x	-	x	x	x	x	x
DVD-R/RW / DVD+R/RW	x / x	-	x / x	x / x	x / x	x / x	x / x
CD-R/RW	x	-	x	x	x	x	x
MP3 / WMA	x / x	-	x / x	x / x	x / x	x / x	x / x
JPEG / Kodak Picture CD	x / x	-	x / x	x / x	x / x	x / x	x / x
RDS	x	-	x	x	x	x	x
<b>Satellite Speakers/ Centre Speaker</b>							
Type: Satellite	Full-range 2 speakers	Full-range 2 speakers	2-way 3-speakers	-	2-way 3-speakers	2-way 2-speakers	2-way 3-speakers
Center	Full-range 2 speakers	Full-range 2 speakers	2-way 3-speakers	-	2-way 3-speakers	2-way 3-speakers	-
Speaker Size	5,7 cm Full-range x2	5,7 cm Full-range x2	5,7cm Cone Bass-mid x2 1,9cm Super-high Range x1	-	5,7cm Cone Bass-mid x2 1,9cm Super-high Range x1	5,7cm Cone Bass-mid x1(x2 for Center) 2,5cm High Range x1	5,7cm Cone Bass-mid x2 1,9cm Super-high Range x1
Dimensions (WxHxD) mm: Satellite	84 x 189 x 110	84 x 189 x 110	210 x 210 x 161	-	210 x 172 x 155	70 x 140 x 133 210 x 79 x 133	70 x 210 x 155
Center	263 x 84 x 110	263 x 84 x 110	210 x 72 x 161	-	210 x 72 x 155	210 x 79 x 133	-
Weight (kg) : Satellite	1.2	1.2	1.1	-	1.1	0.7	1.1
Center	1.4	1.4	1.1	-	1.1	1.0	-
Magnetically Shielded	x	x	x	-	x	x	x
<b>Subwoofer</b>							
Speaker Size	16 cm Cone woofer	16 cm Cone woofer	16cm Cone Woofer	-	16cm Cone Woofer	16cm Cone Woofer	16cm Cone Woofer
Magnetically Shielded	x	x	x	-	x	x	x
LF Direct	-	-	-	-	(Passive)	(Passive)	x
Power Output	50 W (6 ohms), 100 W (Dynamic power)	50 W (6 ohms) 100 W (Dynamic power)	100 W (4 ohms)	-	-	-	100 W (4 ohms)
Dimensions	210 x 353 x 379	210 x 353 x 379	232 x 452 x 395	-	210 x 316 x 352	210 x 322 x 304	232 x 452 x 395
Weight (kg)	9.2	9.2	11.2	-	5.8	4.9	11.2

\*SCART Output only



## DVD-Audio/Video / Super Audio CD Player

# DVD-A1XVA



- Latest I/P converter from Silicon Optix, Inc.
- Newly-developed Denon Pixel Image Correction (DPIC), for more natural contour correction
- High-performance DVDO video scaler capable of 1080p output for HDMI
- Newly-developed Dual Discrete Video Circuit (DDVC)
- High-speed, high-precision 14-bit 216-MHz video DAC
- Oversampling of 8x for Progressive and 16x for Interlaced signals results in sharp, detailed pictures.
- Composite, S-video, and component signals each have their own dedicated video DAC
- Noise Shaped Video (NSV)
- Super Sub Alias Filter
- Supports fine picture quality adjustments
- Simultaneous output through HDMI and DVI digital video interfaces
- Simultaneous output possible for all video signals
- Supports PAL and NTSC (PAL/NTSC Conversion)
- THX Ultra certified
- Advanced AL24 Processing, original Denon technology for high-quality audio
- High-accuracy D/A converters for all channels
- Audio output dedicated to high-quality 2-channel playback
- Pure Direct mode, for greater purity in the audio signal

- DENON Link (3rd edition)
- IEEE 1394 digital interface
- HDMI digital audio output up to 6 channels
- Bass management function tailored for home theater environments
- Construction designed to thoroughly suppress vibration and mutual interference among circuit blocks
- Four-box layout to isolate circuits and minimise mutual interference
• Thorough vibration-resistant construction
- Denon original high-accuracy drive mechanism
- DVD-R/RW (DVD-Video Recording Mode) Playback
- DVD+R/RW Playback
- CD-R/RW(MP3/WMA/JPEG/Kodak Picture CD) Playback
- Playback frequency ranges of Super Audio CDs are switchable (50 kHz / 100 kHz)
- Independent bass management for analog audio output and HDMI audio signals
- Multi Layer Construction
- Independent Power Supply
- SRS TruSurround
- RS-232C and Remote in/out ports
- Backlight Remote control



DVD-Audio/Video /  
Super Audio CD Player

# DVD-3910

- High-Definition Multimedia Interface (HDMI) with Scaling Function
- HDMI Digital Audio Output up to 6 channels
- Dual Discrete Video Circuit (DDVC)
- Noise Shaped Video (NSV)
- Super Sub Alias Filter
- New FAROUDJA Progressive Circuit (PAL / NTSC Output)
- DENON Link (3rd edition)
- IEEE 1394 Link
- AL24 Processing Plus
- Dual 12-bit, 216MHz Video Converter
- HDCD
- Pure Direct Mode
- Denon Pixel Image Correction (DPIIC)
- Independent Power Supply
- Noise Reduction Circuit
- Digital Bass Management
- Multi Layer Construction
- Digital Visual Interface (DVI) with Scaling Function
- DVD-R/RW (DVD-Video Mode) Playback
- DVD+R/RW Playback
- PAL/NTSC Conversion Output
- Super Video CD Playability
- CD-R/RW/MP3/WMA/JPEG/Kodak Picture CD) Playback
- RS-232C Port



Silver    Black



DVD-Audio/Video /  
Super Audio CD Player

# DVD-2910

- High-Definition Multimedia Interface (HDMI) with Scaling Function
- HDMI Digital Audio Output up to 6 channels
- Dual Discrete Video Circuit (DDVC)
- Super Sub Alias Filter
- Noise Shaped Video (NSV)
- New FAROUDJA Progressive Circuit (PAL / NTSC Output)
- Thorough Vibration-resistant Design
- Newly-Developed Loading Mechanism for Suppression of Vibrations
- Burr-Brown 24-bit, 192-kHz Audio D/A Converter
- Dual 12-bit, 216MHz Video Converter
- Pure Direct Mode
- Digital Bass Management
- HDCD
- Specially Selected Parts for High Sound and Picture Quality
- Remote IN/OUT Terminals
- SRS Tru Surround
- DVD-R/RW (DVD-Video Recording Mode) Playback
- DVD+R/RW Playback
- PAL/NTSC Conversion Output
- Digital Visual Interface (DVI) with Scaling Function
- Super Video CD Playability
- CD-R/RW (MP3/WMA/JPEG/Kodak Picture CD) Playback



Black



# DVD-Audio/Video / Super Audio CD Player DVD-1920



Black



- High-Definition Multimedia Interface (HDMI) with Scaling Function
- HDMI Digital Audio Output up to 6 channels
- Pure Direct Mode
- FAROUDJA Progressive Circuit (PAL /NTSC Output)
- 11 bit, 216 MHz Video Converter
- 24bit, 192KHz Audio D/A Conversion
- DVD-R/RW (DVD-Video Mode) Playback
- DVD+R/RW Playback
- CD-R/RW (MP3/WMA/JPEG/Kodak Picture CD) Playback
- Plays DivX® Video Content
- Color Component Video Output
- RGB output via SCART terminal
- Picture Zooming
- Picture adjust function
- Setup, Menu Control on the Front Panel
- Icon Based On-screen Display

\* Official DivX Certified™ product  
\* Plays DivX®5, DivX®4, DivX®3, and DivX® VOD video content (in compliance with DivX Certified TM technical requirements)

# DVD-Video Player DVD-1720



Black



- Progressive Scan (PAL/NTSC Output)
- 108 MHz High Resolution Video D/A Converter
- 24-bit, 192-kHz High Resolution Audio D/A Converters
- DVD-R/RW (DVD-Video Mode) Playback
- DVD+R/RW Playback
- Plays DivX® Video Content
- CD-R/RW (MP3/WMA/JPEG/Kodak Picture CD) Playback
- Color Component Video Output
- RGB Output via SCART Terminal
- Icon Based On-screen Display
- PCM, Dolby Digital and DTS Digital Output
- 24/96 PCM Digital Output Capability
- VSS (Virtual Surround System)
- 2 MB Buffer Memory
- Picture Zooming (x2 or x4)
- Power On/Off discrete commands for multi control
- Display Dimmer Key

\* Official DivX Certified™ product  
\* Plays DivX®5, DivX®4, DivX®3, and DivX® VOD video content (in compliance with DivX Certified TM technical requirements)

	DVD-A1XV	DVD-3910	DVD-2910	DVD-1920	DVD-1720
DVD-Audio	x	x	x	x	
Super Audio CD	x	x	x	x	
DVD-R/RW, DVD+R/RW (*1)	x	x	x	x	x
Dolby Digital Decoder	x	x	x	x	
dts Decoder	x	x	x	x	
CD-R/RW(MP3/WMA/JPEG/Kodak Picture CD)(*1)	x	x	x	x	x
DivX				x	x
D.D.V.C.	x	x	x		
Progressive	HQV	DCDi	DCDi	DCDi	x
for PAL	x	x	x	x	
for NTSC	x	x	x	x (*4)	x (*4)
Video DAC	216MHz (Dual)	216MHz (Dual)	216MHz (Dual)	216MHz	108MHz
Multi Layered Construction	x	x	x		
S.V.H. Loader	x	x			
Audio DAC	192kHz/24bit	192kHz/24bit	192kHz/24bit	192kHz/24bit	192kHz/24bit
Advanced AL24 Processing	x (2ch Stereo)				
AL24 Processing Plus	x(all ch)				
Pure Direct	x	x	x	x	
Bass Management for DVD-V/DVD-A/SuperAudioCD	x/x/x	x/x/x	x/x/x	x/x/x	
Time Alignment for DVD-Video/DVD-Audio/Super Audio CD	x/x/x	x/x/x	x/x/-	x/x/-	
Serial Control	x	x			
DVI (*3)	x	x	x		
HDMI (*2)(*3)	x	x	x	x	
Component Video Output	2	1	1	1	1
SCART RGB Output	1	1	1	1	1
S-Video Output	2	1	1	1	1
Composite Output	2	1	1	1	1
2-ch Analog Output	1	1	1	1	1
5.1-ch Analog Output	1	1	1	1	
Digital Output (Coaxial/Optical)	1/1	1/1	1/1	1/1	1/1
DENON Link	x	x			
IEEE1394 Link	x	x			
HDMI Multi Channel Audio	x	x	x	x	

(\*1) Discs that have been poorly finalised following recording may be only partially playable or not playable at all.  
(\*2) Version 1.1 compliant. HDMI audio output capacity is dependent on the monitor being used.  
(\*3) HDMI and DVI outputs are HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.  
(\*4) see page 40

# Hi-Fi Components

DAEWON

ADVANCED *AL24* PROCESSING

POWER

REVERSE PLAY

STOP

PAUSE

SKIP FORWARD

SKIP BACKWARD

TRACK

5

0m20s

TRIP

SUPER AUDIO CD PLAYER DCD-CA1

A silver-faced Super Audio CD player with a central disc tray. The control panel includes a power button, reverse play, stop, pause, skip forward, and skip backward buttons. A digital display shows track 5 and 0m20s. The unit is mounted on a black stand.

DAEWON

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

VOLUME

POWER

EQ POWER

BALANCE

BALANCED INPUT

REC. OUT SELECTOR

INPUT SELECTOR

PHONO

CD

TAPE I, CD R

TAPE II, S

TUNER

STEREO

INTEGRATED AMPLIFIER PMA-CA1

A silver-faced integrated amplifier featuring a large central volume knob. The control panel includes a power button, EQ power, balance, balanced input, and recording output selector buttons. A large input selector knob offers options for Phono, CD, Tape I/CD R, Tape II/S, and Tuner. The unit is mounted on a black stand.

Balancing dynamic power and delicate details in sound,  
the fruit of many years of Denon audio technology and experience.



## Integrated Amplifier PMA-SA1

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

- 100 W x 2 (4 ohms)
- UHC-MOS, The Ideal Large-current Amplifier
- Cascode Bootstrap Connection, To Bring Out The Maximum Potential of UHC-MOS
- Simple Amplifier Stage Configuration
- All-stage Balanced Amp Configuration, To Protect Clarity of Musical Signals
- Inverted  $\Sigma$  Balance Circuit, realising a balanced amp for high sound quality
- High-grade volume control for superior sound quality
- Sand-cast Aluminum Transformer Case and Capacitor Holder
- Robust Power Supply for Each Section
- Fully Independent Phono Equaliser Amplifiers
- Precision Signal Ground Circuit, to Preserve Signal Purity
- Chassis Construction with 6 Independent Blocks
- "Simple & Straight" Circuit Design
- Generous Use of Large Gold-plated Speaker Terminals and Other Parts Selected for High Sound Quality
- Super Radiation aluminum top cover
- Independent L/R Heatsinks





## CD/Super Audio CD Player DCD-SA1



ADVANCED *AL24* PROCESSING

- 'Advanced AL24 Processing,' The Latest Technology for High Sound Quality
- Original Drive Mechanism, The Heart of Denon's Digital Disc Playback Technology
- High-accuracy Master Clock Oscillator, to Suppress Jitter and Noise
- Fully Balanced Output Using 4-DAC Configuration
- Triple Floating Power Supply, to Suppress Resonance, to Prevent Noise and to Ensures a Clean, Stable Supply of Power
- Pure Direct mode
- Balanced and Unbalanced Output
- Optical and Coaxial Digital Input/Output
- Thoroughly Vibration-resistant Construction
  - 4-layer Bottom Plate Construction
  - Cast Iron Insulator
  - Hybrid Construction for All Panels
  - Vibration-resistant PC Board Design





## Integrated Amplifier PMA-2000AE

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

- 160 W x 2 (4 ohms)
- UHC-MOS FET
- UHC-MOS Single Push-Pull Circuit
- LC (Leakage Cancelling) Mounted Twin Transformers
- Powerful High-current Dynamic power Circuit
- Newly-developed large-capacity Block Capacitor
- Highly Rigid, Separated Chassis
- Wide-Range Play Capability for DVD-Audio or Super Audio CD
- Power Amp Direct Input
- PRE OUT Terminals for Future System Expansion
- Precision Mechanical Ground Construction, to Thoroughly Suppress Vibration
- Precision Signal Ground Circuit, to Preserve Signal Purity
- Large, Gold-Plated Speaker Terminals
- High-Performance MM & MC Phono Equaliser
- Convenient Remote Control for Main Functions
- High-grade Input Terminal for PHONO and CD



## CD/Super Audio CD Player DCD-2000AE



ADVANCED AL24 PROCESSING

- 'Advanced AL24 Processing,' The Latest Technology for High Sound Quality
- Original Drive Mechanism, The Heart of Denon's Digital Disc Playback Technology
- DAC master clock design, to Suppress Jitter and Noise
- Complete separation of digital and analog power supplies using OFC wire coils to Ensure a Clean, Stable Supply of Power
- Thoroughly Vibration-resistant Construction
  - 3-layer Bottom Plate Construction
  - Cast aluminum trans base
  - Hybrid Construction for All Panels
- Pure Direct mode
- Optical and Coaxial Digital Output

	PMA-SA1	PMA-2000AE	PMA-1500AE	PMA-1055R	PMA-655R	PMA-495R
UHC-MOS Single Push Pull Circuit	x	x	x			
HC-TR Single Push Pull Circuit				x	x	
LC Mounted Twin Transformer		x	x	x		
Wide Range Amplifier	x	x	x	x	x	
High Current Dynamic Power Supply	x	x	x	x	x	
Power AMP Discrete Construction	x	x	x	x	x	
PHONO MC		x	x			
MM	x	x	x	x	x	x
Audio Input	7	7	6	6	6	6
REC Output	2	2	2	2	2	2
Pre Out		x	x	x	x	
Balanced Input	x					
REC Out Select	x	x	x	x	x	
Source Direct		x	x	x	x	x
Tone Control		x	x	x	x	x
Power Amp Direct Mode		x	x			
Micro Processor Auto Off		x	x	x	x	
4ohm Rated Output	100W	160W	140W	120W	85W	70W



Black

## Integrated Amplifier PMA-1500AE

*Ultra High Current MOS*  
SINGLE PUSH-PULL CIRCUIT

- 140 W x 2 (4 ohms)
- UHC-MOS FET
- UHC-MOS Single Push-Pull Circuit
- LC (Leakage Cancelling) Mounted Twin Transformers
- High-Speed Rectifier Circuit
- Highly Rigid, Separated Chassis
- Wide-Range Play Capability for DVD-Audio or Super Audio CD
- Power Amp Direct Input
- Large, Gold-Plated Speaker Terminals
- High-Performance MM & MC Phono Equaliser
- Convenient Remote Control for Main Functions



Black

## CD/Super Audio CD Player DCD-1500AE



*AL24 Processing*

- 'AL24 Processing,' The Technology for High Sound Quality
- Original Drive Mechanism, The Heart of Denon's Digital Disc Playback Technology
- DAC master clock design, to Suppress Jitter and Noise
- Complete separation of digital and analog power supplies using OFC wire coils to Ensure a Clean, Stable Supply of Power
- Pure Direct mode
- Optical and Coaxial Digital Output

	DCD-SA1	DCD-2000AE	DCD-1500AE	DCD-685	DCD-485	DCM-280
Advanced AL 24 Processing	x	x				
AL 24 Processing			x			
LAMBDA SLC				x		
Number of DAC	4	2	2	2	2	2
SVH Loader	x	x	x			
Dimmer	x	x	x	x	x	
Jog Control				x	x	
Pitch Control				x		
Analog Output	2(Balanced/Unbalanced)	1	1	1	1	1
Digital Output	2(Coaxial/Optical)	2(Coaxial/Optical)	2(Coaxial/Optical)	1	1	1
Digital Input	2(Coaxial/Optical)					
Number of DISC	1	1	1	1	1	5
Super Audio CD	x	x	x			
CD-R/RW Playback (*)	x	x	x	x	x	x
MP3 Decoder						x
Random	x	x	x	x	x	x
Repeat all	x	x	x	x	x	x
Repeat one			x			
A/B Repeat			x	x	x	

\* Discs that have been poorly finalised following recording may be only partially playable or not playable at all.

## Integrated Amplifier PMA-1055R

RC

- 120 W x 2 (4 ohms)
- High-Current (HC) Single Push-Pull Circuit Combining
- HC-Transistor, for Rich, Expressive Sound
- LC (Leakage Cancelling) Mounted Twin Transformers
- High-Speed, High-Capacity Power Supply Circuit
- Independent Power Transformer for Microprocessor
- Supports A Wide Variety of Next-Generation Sound Sources
- REC OUT Selector for Flexible Enjoyment of Music
- PRE OUT Terminals for Future System Expansion
- PHONO Equaliser Amp (MM),  
Permitting Connection of An Analog Turntable



Black

## Integrated Amplifier PMA-655R

RC

- 85 W x 2 (4 ohms)
- Independent Power Transformer for Microprocessor
- Microprocessor Stop Mode to Further Improve Sound Quality
- REC OUT Selector for Flexible Enjoyment of Music
- PRE OUT Terminals for Future System Expansion



Black

## Integrated Amplifier PMA-495R

RC

- 70 W x 2 (4 ohms)
- Very low distortion at levels
- IS Remote control can handle Denon CD Players, cassette decks and tuners
- Phono input for MM cartridges
- 4 inputs / 2 outputs and a Source Direct switch
- Passive tone controls



## AM-FM Stereo Receiver DRA-1000

SLDC SERIAL LEVEL DIVIDED CONSTRUCTION RDS RadioTEXT RC

- 90 W x 2 (4 ohms)
- Signal Level Divided Construction (SLDC)
- High-Quality Power Amplifier Stage
- Adjustable Loudness
- Electronic Source Selection
- Last Function Memory
- A-B Speaker Switching
- RDS (RDS-EON) Functions
- 40-Station Random Preset Memory
- Auto Preset Memory (FM only)
- Character Input



Black

## AM-FM Stereo Receiver DRA-455

SLDC SERIAL LEVEL DIVIDED CONSTRUCTION RDS RadioTEXT RC

- 65 W x 2 (4 ohms)
- Signal Level Divided Construction (SLDC)
- Adjustable Loudness
- Last Function Memory
- A-B Speaker switching
- RDS (RDS-EON) Functions
- 40-Station AM / FM Random Preset Memory
- 4 Audio Inputs and 1 Audio Output



Black

# AM-FM Stereo Receiver

## DRA-295

SLDC RDS RadioTEXT RC

- 70 W x 2 (4 ohms)
- High-quality Power Amplifier
- Signal Level Divided Construction Chassis Design
- Convenient Remote Controller
- 40-Station AM/FM Random Preset Memory Tuning
- RDS (Radio Data System)
- Auto Preset Memory
- Sophisticated Tuning Circuit Design
- Bass and Treble Tone Controls
- A/B Speaker Switching
- Switched AC Outlet



# DAB / AM-FM Stereo Tuner

## TU-1800DAB

DAB RDS RadioTEXT RC

- High Quality D/A convertor featuring 192kHz/24bit DACs
- Optical and Coaxial outputs
- Dynamic Range Control (DRC)
- Easy-to-read 2-line dot matrix display
- Up to 200 station pre-sets (100 DAB and 100 AM/FM) can be stored in memory.
- DAB Tuner
- Last function memory and Back-up memory
- Full remote control from supplied handset



This product is not necessarily sold in all regions. Please contact a nearby Denon authorized dealer for details and availability.

Black

# AM-FM Stereo Tuner

## TU-1500AE

RDS RadioTEXT RC

- Refined design worthy of the AE series
- Rotary knob, for easy tuning and preset operation
- Low-impedance output circuit (300 ohms)
- Easy-to-read 2-line dot matrix display
- Dedicated remote controller
- Preset Memory for a total of 100 FM/AM stations, and Auto Preset Memory for automatically scanning and storing stations that can be received
- Up to 8 alphanumeric characters can be stored for displaying station call letters, nicknames, or other information.



Black

# AM-FM Stereo Tuner

## TU-245RD

RDS RadioTEXT

- Newly-Developed MPX Filter
- RDS (RDS-EON) Functions
- Rotary Knob for Improved Ease of Operation
- Large, Easy-to-Read Display
- AM/FM 40-Station Random Preset Memory



Black

	DRA-1000	DRA-455	DRA-295
SLDC	x	x	x
Speaker	A/B	A/B	A/B
Analog Inputs	4 + PHONO (MM)	3 + PHONO (MM)	5
Analog Outputs	2	1	2
Variable Loudness	x	x	
Binding Post Speaker Terminal	x	x	x
RDS	x	x	x
Radio Text	x	x	x
EON	x	x	
Station Memory	40	40	40
Auto Preset Memory	x	x	x
Character Input	x	x	

	TU-1800DAB	TU-1500AE	TU-245RD
RDS	x	x	x
Radio Text	x	x	x
EON	x	x	x
Station Memory	200	100	40
Manual Character Input	x	x	x
Auto Preset Memory	x	x	x

## CD Player

# DCD-685



- Real 20-bit 2-DAC LAMBDA Super Linear Converter
- CD-R/RW (audio) Playback
- Convenient Pitch Control
- Optical Digital Output
- Music Calendar
- Display Dimmer
- A Wealth of Additional Playback Functions  
(20-track Program Play, All-Tracks Repeat, A-B Repeat, Random Play)
- Centred Mechanism Layout
- Headphone
- Headphone Volume



Black

## CD Player

# DCD-485



- Delta-Sigma Multi-bit D/A Converter
- CD-R/RW (audio) Playback
- Optical Digital Output
- Music Calendar
- Display Dimmer
- A Wealth of Additional Playback Functions  
(20-track Program Play, All-Tracks Repeat, A-B Repeat, Random Play)
- Centred Mechanism Layout
- Headphone



## 5-CD Auto Changer

# DCM-280



- CD-R/RW Playback
- MP3 Decoder
- Advanced Multi level Noise Shaping DAC
- 8-Times Oversampling Digital Filter
- Synchronised Recording Function
- Full Selection of Program Playback
- 3-Mode Random Playback
- Intelligent Disc Scan
- 20-Selection Music Calendar Display
- Coaxial Digital Output
- Headphone Jack



## CD+CD Recorder

# CDR-W1500



- Dual drives let you record CDs onto CD-R/CD-RW discs in a single component
- Double-speed CD Recording
- Double-speed CD-R/CD-RW Finalising
- Scan Rec Dubbing Mode
- Synchronised Recording Function
- Disc Dubbing Mode
- Text Input and Display
- Sampling Rate Converter (32/44.1/48 kHz)
- Serial Copy Management System (SCMS)
- 24-bit D/A converter (CD drive)



Gold

# Cassette Deck

## DRM-595



- Rich Selection of Play and Recording Modes (Single, Reverse, Timer Play, Timer Recording)
- Memory Stop
- Dolby B/C NR and HX-Pro
- Manual Bias Adjustment Control
- CD Synchro Record Function
- MPX Filter Switch



Black

# Double Cassette Deck

## DRW-695



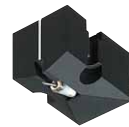
- Rich Selection of Play and Recording Modes (Single, Reverse, Relay, Timer Play, Timer Recording)
- Memory Stop
- Dolby B/C NR and HX-Pro
- Manual Bias Adjustment Control
- CD Synchro Record Function
- Backlight
- Non-Slip Reel Drive
- MPX Filter



# Turntable

## DP-29F

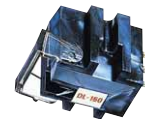
- High-Precision Diecast Aluminium Turntable
- Automated System for Easy Operation
- Built-in PHONO Equaliser



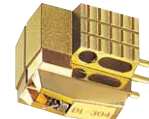
MC Cartridge  
**DL-103**



MC Cartridge  
**DL-110**



MC Cartridge  
**DL-160**



MC Cartridge  
**DL-304**

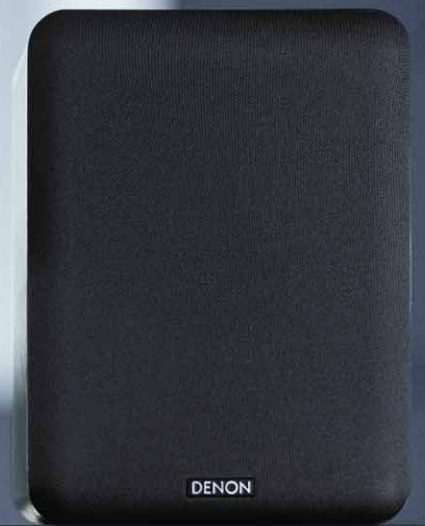
This product is not necessarily sold in all regions. For details, please contact the authorised dealer noted at the back of this catalogue.

	CDR-W1500
D/A Converter	
24-bit DAC	x (CD Drive)
HDCD decoder	x (CD Drive)
Sampling Rate Converter	x
Synchronised Recording System	x
Disc Syn. Recording	x
Track Syn. Recording	x
Double-speed CD Recording	x
Double-speed CD-R/CD-RW Finalising	x
Fade-In/Out Recording	x
Track Erase	x
Digital REC. Volume	x
Monitor Mode	x
CD Text	x
Analog Input	1
Analog Output	1+1 (CD + CD/CD-R)
Digital Input	
Coaxial	1
Optical (TOS)	1
Digital Output	
Coaxial	1+1 (CD + CD/CD-R)
Optical (TOS)	1+1 (CD + CD/CD-R)

	DRM-595	DRW-695
Double Cassette Mechanism		x
B/C & HX Pro	x	x
Manual Bias Adjust	x	x
MPX Filter Switch	x	x
CD Synchro Record	x	x
Timer	x	x
IR Remote Control	(IR receiver)	(IR receiver)



# Mini Component Systems



# 201SA Series

The 201SA series is a compact, easy-to-operate Hi-Fi system packed with Denon's latest audio technology. It visually complements any interior space and fills it with a richness of sound that is rare in systems of this class. All 201SA components are a uniform 250 x 90 mm size and sport an aluminium front panel with soft half-mirror displays. Denon is proud to offer music lovers everywhere such timeless abundance in a modest, compact package.



PMA-201SA

TU-201SA

DCD-201SA

Mini Component Series

Receiver

## DRA-201SA



**SLDC** **RDS** **RadioTEXT**

- High-Current (HC) Single Push-Pull Circuit, for Delicate Musical Details and Rock-solid Power
- HC Transistor, for vastly improved dynamic range
- Signal Level Divided Construction (SLDC)
- 50 W + 50 W high-power output
- Source Direct for cleaner sound
- Bass/Treble tone, balance, and loudness controls
- Built-in timers to control 201SA system
- 40-station AM/FM Random Pre-set Memory Tuning
- Radio TEXT with RDS function

- Auto Power On
- Auto Function Change
- Display Dimmer
- Energy-saving design with standby power consumption of less than 1 W
- Input and Output Terminals:  
Input: PHONO (MM), CD, DVD/AUX, AUX-2, TAPE, MD  
Output: TAPE, MD
- PHONO Equaliser amp (MM), permitting connection of an analog turntable
- Remote Controller with dial function selector





Mini Component Series  
**Integrated Amplifier**  
**PMA-201SA**

**SLDC**  
SERIAL LEVEL CIRCUIT CONSTRUCTION

- Fully Discrete Power Amplifier, 2 x 50 Watt
- Design for High Sound Quality
- HC-Transistor, for Rich, Expressive Sound
- Source Direct
- Wide-Range Play Capability for DVD-Audio or SUPER AUDIO CD
- Tone Control (Bass, Treble, Balance) and Loudness
- PHONO Equaliser Amp (MM)
- Relay Switch Used for CD Input



Mini Component Series  
**AM-FM Stereo Tuner**  
**TU-201SA**

**RDS** RadioTEXT

- 40-Station Preset Memory
- RDS (Radio Data System)
- Useful Timer Function (Everyday Timer, Sleep Timer)



Mini Component Series  
**CD Player**  
**DCD-201SA**

**COMPACT DISC DIGITAL AUDIO**

- 24-bit D/A Converter
- CD-R/RW (audio) Playback (\*1)
- Useful Timer Function (Everyday Timer, Sleep Timer)
- 2 Optical Digital and 1 Analog Output Terminals
- A Variety of Playback Functions (Random Play, Repeat Play, Programmed Play)

(\*1): Discs that have been poorly finalised following recording may be only partially playable or not playable at all.



Mini Component Series  
**Cassette Deck**  
**DRR-201SA (Optional)**

**DOLBY B/C NR X2 PRO** **AUTO REVERSE**

- Auto Reverse Single Deck
- Horizontal Loading for Stable Tape Transport
- Dolby B, C Noise Reduction and HX-Pro
- Music Search
- Recording Level Adjustment
- Auto Tape Selector

# D-F101 Series

The DRA-F101 receiver represents the heart of the Denon D-F101 component system featuring space-saving 250mm depth design and luxurious aluminum front panels. Its remote control unit also controls the main functions of other components in the system.



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**DRA-F101**

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**DCD-F101**

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**DRR-F101**

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**SC-G101**

Speakers shown may be different from those actually sold with the system.  
For details, please contact the authorised dealer noted at the back of this catalogue.

Mini Component Series  
Receiver  
**DRA-F101**

**RDS** RadioTEXT

- Discrete configuration for clear stereo separation
- 35 W x 2 (4 ohms)
- 5 Audio Inputs and 3 Audio Outputs including Subwoofer (Mono)
- Auto Source Select
- Phono Input Jack
- Headphone Jack
- The RC-927 controls entire D-F101 system
- Built-in Power Supply



Mini Component Series  
CD Player  
**DCD-F101**



- 8-times Oversampling Digital Filter
- CD-R/RW (audio) Playback (\*1)
- 20-Track Program Play
- Repeat Play (2 types)
- Analog Output and Optical Digital Output
- One-Touch Synchro Recording  
(With DRA-F101 receiver and DRR-F101 Cassette Deck)
- Built-in Power Supply

(\*1): Discs that have been poorly finalised following recording may be only partially playable or not playable at all.



Mini Component Series  
Cassette Deck  
**DRR-F101 (Optional)**



- Auto Reverse
- Horizontal Loading Mechanism
- Dolby B Noise Reduction
- One-Touch Synchro Recording  
(With DRA-F101 receiver and DCD-F101 CD Player)
- Music Search
- Auto Tape Selector
- Built-in Power Supply



Speaker System  
**SC-G101**

- 2-way Bass Reflex
- 182 x 283 x 270 (W x H x D)



Speaker System  
**SC-G101BK**

- 2-way Bass Reflex
- 182 x 283 x 270 (W x H x D)

# M-Series

Building on the basic design of Denon's world-renowned D-M31 and D-M30, Denon engineers have continued to refine design details and parts through repeated tests in order to achieve an even higher level of sonic perfection.

These engineers have also collaborated with European sound designers and technicians to develop a new speaker system that would faithfully deliver the improved sound quality from the D-M33, Denon's latest micro Hi-Fi system. The D-M33 not only plays CDs but a variety of other sources such as MP3 and WMA sound files as well in the rich quality of sound.



**D-M33**

RCD-M33

SC-M53



**D-M35DAB**

RCD-M35DAB

SC-M73

This product is not necessarily sold in all regions.  
Please contact a nearby Denon authorized dealer for details and availability.

Mini Component Series  
CD Receiver  
**RCD-M33**



- 22 W x 2 (6 ohms)
- CD-R, CD-RW (MP3/Windows Media Audio) Playback
- AM/FM Tuner
- 2 Line Dot Matrix Display for Various Information (Station Name, Artist Name etc.)
- S.D.B. (Super Dynamic Bass)
- Tone Controls (Bass, Treble)
- Source Direct Function
- 2 Sets of Analog Stereo Inputs and Analog Stereo Outputs
- Subwoofer Output
- Easy-to-Use Remote Control
- Headphone Jack
- A wealth of Playback Functions
- Optical Digital Output Jack for Direct Transmission of Digital Signals
- Auto Edit Function
- Radio TEXT with RDS function
- Everyday/Once/Sleep Timer

Mini Component Series  
CD Receiver  
**RCD-M35DAB**



- 22 W x 2 (6 ohms)
- CD-R, CD-RW (MP3/Windows Media Audio) Playback
- DAB (Digital Audio Broadcast) Tuner
- AM/FM Tuner
- 2 Line Dot Matrix Display for Various Information (Station Name, Artist Name etc.)
- S.D.B. (Super Dynamic Bass)
- Tone Controls (Bass, Treble)
- Source Direct Function
- 2 Sets of Analog Stereo Inputs and Analog Stereo Outputs
- Subwoofer Output
- Easy-to-Use Remote Control
- Headphone Jack
- A wealth of Playback Functions
- Optical Digital Output Jack for Direct Transmission of Digital Signals
- Auto Edit Function
- Radio TEXT with RDS function
- Everyday/Once/Sleep Timer

This product is not necessarily sold in all regions.  
Please contact a nearby Denon authorized dealer for details and availability.

Mini Component Series  
Cassette Deck  
**DRR-M33 (Optional)**



- Horizontal Loading Mechanism for Smooth, Stable Tape Travel
- Dolby B Noise Reduction System
- CD-SRS for One-Touch Recording from CD
- A Wealth of Editing and Playback Functions
- One-Touch Auto Reverse Operation
- Music Search
- Auto Tape Selector

Speaker System  
**SC-M53**

- 2-way 2 Speakers
- 12 cm woofer x1
- 2,5 cm Soft dome Tweeter x1
- Frequency Range: 45 Hz - 40 kHz
- 141 x 191 x 249 (W x H x D)
- 3,4 kg/Unit



Speaker System  
**SC-M73**

- 2-way 2 Speakers
- 13 cm woofer x1
- 2.5 cm Soft dome Tweeter x1
- Frequency Range: 43 Hz - 40 kHz
- 156 x 213 x 249 (W x H x D)
- 3.9 kg/Unit



This product is not necessarily sold in all regions.  
Please contact a nearby Denon authorized dealer for details and availability.

S-101/S-301 Series



## DVD Home Theater System S-101

- 50 W + 50 W (4 ohms)(Front), 100 W (3 ohms) (Subwoofer)
- Plays DVD/CD
- AM/FM Tuner
- iPod®/Rio/Portable player connectivity
- Surround sound from just 2 speakers and a subwoofer
- Easy set up & smart operation
- DENON Developed High Quality Sound Reproduction
- High-End DVD Player Comparable High Quality Image Reproduction Technology
- European Sound Tuned Speakers



## DVD Home Theater System S-301

- 70 W + 70 W (4 ohms)(Front), 140 W (3 ohms) (Subwoofer)
- Plays DVD-Audio/Video, Super Audio CD/CD
- AM/FM Tuner
- iPod®/Rio/Portable player connectivity
- Surround sound from just 2 speakers and a subwoofer
- High Power Amplifiers
- HDMI Output Terminal (\*1)(\*2)
- USB Terminal for portable player connectivity
- Easy set up & smart operation
- DENON Developed High Quality Sound Reproduction
- High-End DVD Player Comparable High Quality Image Reproduction Technology
- European Sound Tuned Speakers



(\*1) Version 1.1 compliant. HDMI audio output capacity is dependent on the monitor being used.  
(\*2) HDMI and DVI outputs are HDCP compliant. Video cannot be viewed if connected to a monitor that does not support HDCP; video can be viewed only on HDCP-compliant monitors.



More info at: [http://blog.denon.com/s301\\_101/](http://blog.denon.com/s301_101/)



### Floor Speaker Stand for S-101/S-301

### ASF-S01 (Optional)

- Dimensions (W x H x D):  
300 x 1,114 x 300 mm  
(including speaker system)
- Weight: 7.0 kg/unit



# Denon Technology



**DENON Link:** Connected via a shielded twisted pair (STP) RJ-45 fitted cable to a DENON Link-compliant A/V amplifier, the balanced signal transfer offers lower voltage than coaxial or unbalanced cables. Since DENON Link is far less susceptible to radiated noise, it ensures the highest level of signal transfer. The DENON Link interface is able to transfer high-grade LPCM 24-bit, 192-kHz, 2-channel and 96-kHz, 24-bit, multi-channel digital output.

## ADVANCED *AL24* PROCESSING

**Advanced AL24 Processing:** Denon led the world in developing a practical PCM recorder in 1972. The shift to digital technology solved numerous problems such as noise, wow, flutter, and frequency response. The delicate nuances of sound from CD up to the least significant bit (LSB) are lost, however, due to the 16-bit quantisation and band cutting at  $f_s/2$  (half the sampling frequency) during 44.1-kHz sampling. Denon was determined to tackle the problem of quantisation noise that remained in digital audio, and developed ALPHA (adaptive line pattern harmonised algorithm), a technology that reproduced 16-bit data with 20-bit quality and became a favorite with audiophiles around the world.

This development later progressed to 24-bit quality with the evolution of "AL24 Processing," and as support for higher resolutions and sampling continued to improve, Denon developed "AL24 Processing Plus" for the 192-kHz sampling of DVD-Audio.

Denon's most recent achievement is "Advanced AL24 Processing," a proprietary high-speed signal processing technology that expands the volume of data along the time axis in addition to the data expansion of existing AL24 Processing Plus technology.

## *AL24 Processing Plus*

**AL24 Processing Plus:** Denon has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192-kHz sampling frequency of DVD-Audio. This new technology, called AL24 Processing Plus, thoroughly suppresses quantisation noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that brings out all the delicate nuances of the music. In high-end models, AL24 Processing Plus works for all channels.



**LAMBDA SLC:** The LAMBDA Super Linear Converter (SLC) design includes a LSI, developed by Denon, that divides the digital data into two streams to eliminate zero-cross distortion in a powerful DAC configuration. In the two data streams, there is no reversal of the MSB, and the combined waveform also shows no zero-cross distortion. Even if there is distortion in the original information for a certain bit, the two signals are averaged, reducing the distortion by one half. On the other hand, if the signal level is larger than the amount of shift, the waveform will pass through the usual, unbiased zero-cross point and any distortions in the signal will then be reliably eliminated by the MSB compensation feature of the SLC.



**DDSC-Digital, for High-quality Sound Reproduction:** DDSC (Dynamic Discrete Surround Circuit)-Digital is a circuit configuration specially designed by Denon in which all elements of the surround processor are optimised through the use of selected high-performance discrete components, including separate A/D and D/A converters, with sophisticated DSP surround decoding.

**All Channel Equal Circuit:** Denon's A/V amplifiers and receivers are endowed with power amplifiers that deliver equal power and response to all channels, ensuring utter fidelity to a wide range of high-quality sound sources, from 2-channel stereo to advanced DVD-Audio, Super Audio CD, and Multi channel A/V sources such as Dolby Digital EX and DTS-ES. This all-channel equal circuit gives you the same quality sound in any format and in all channels. The power sections of Denon's A/V amplifiers and receivers use large transformers, high-capacity block capacitors, and other parts specially selected for their high-quality sonic characteristics to give you a robust yet wonderfully detailed sound.

**Pure Audio Construction:** A/V components contain analog audio, digital audio, video, control and many other circuits. The various circuits and blocks in Denon's A/V amplifiers and receivers are thus separated and shielded to prevent mutual interference among them. High-end models are designed with the power supply section in the centre and the power amp section on both sides as in a Hi-Fi amplifier.

**Pure Direct Mode:** Pure Direct mode allows listeners to enjoy pure music of remarkably high quality. When Pure Direct is selected, power to the video circuitry and the fluorescent display is automatically turned off. During analog sound input, power to the digital circuitry is also turned off, and adverse influences by other circuits on the audio circuitry are suppressed to the maximum extent possible.

**Rigid Vibration-resistant Chassis for High-precision Playback:** As in pure audio components, A/V receivers must also be thoroughly protected against the adverse influences of both internal and external vibrations. Denon products are built with a sophisticated vibration-resistant chassis that effectively eliminates these adverse influences on sound quality.

**Supports Next Generation High Resolution Formats:** Future system upgrade capability is provided with the Denon's A/V receivers 6/8 Channel External Input feature. For next generation high resolution multi-channel audio formats such as DVD-Audio and Super Audio CD, the 6/8 Channel External Input is equipped with a wide band frequency response extending to 100 kHz. In addition, the digital inputs support high resolution 24 bit, 96 kHz stereo PCM soundtracks, available on selected audiophile DVD music releases.



**Cinema Equaliser:** The sound from movie sources recorded in Dolby Digital, DTS or other formats emphasises correction of components that deteriorate in the high-frequency range due to the movie screen. If this sound is reproduced in the home theater without correction, the high-frequency range is too strong. The Cinema Equaliser is a function to correct these high-frequency components so that the sound is clearer and easier to listen to. (For Dolby Digital, Dolby Pro Logic, and DTS surround modes)



**Auto Set Up and Room EQ:** Auto Set-up function performs basic settings for the speakers based on frequency response data for the speakers and the listening room that was measured by a supplied high-performance microphone, and a Room EQ (equaliser) function that optimises frequency response characteristics for the listening room. (Measuring method or the algorithm used for RoomEQ depends on models)

**DVD/CD/Super Audio CD Universal:** The ideal player for the customer is one which can play any type of disc or format. Denon's Universal player can play DVD-Video, DVD-Audio, current CDs, and also Super Audio CD, as well as DVD-R/RW, CD-R/RW and PC audio formats such as MP3 and WMA and still picture formats such as JPEG and Picture CD.

**Progressive Scan PAL and NTSC:** Denon's DVD players all offer high-grade IP conversion capabilities. In addition, Progressive conversion is possible for both PAL and NTSC signals. Besides the existing Pure Progressive circuit of Silicon Image, Inc., development work has been continuing in a circuit made by Faroudja, Inc., to ensure that Denon products are always equipped with the latest circuitry and devices. Both circuits offer superior moving picture detection capabilities that allow Denon's DVD players to play discs containing video material recorded in both Video mode and Film mode on the same disc. Faroudja also supplies the DCDi circuit that enhances Progressive conversion accuracy.

**Dual Discrete Video Circuit (D.D.V.C.):** Not only does Denon separate audio and video circuitry in its DVD players to maintain high sound and picture quality, the interlaced, Progressive, and SCART video output circuits are also arranged independent of each other. Isolated circuits and boards, the use of a box chassis, and even the encoder chips (in high-end models) are all exclusively dedicated to individual tasks to minimise mutual interference and ensure optimum picture quality.

**Multi-Layer Construction:** Various methods of absorbing vibration have been adopted in the design of Denon's DVD players to further improve accuracy in reading signals from the disc. All players feature a multi-layer construction in their chassis and top cover, while high-end models incorporate the SVH loader mechanism to maximise protection of the mechanism from vibration.

**Denon Pixel Image Correction (DPIC):** Denon Pixel Image Correction, original enhancement technology from Denon, corrects images in greater detail. Denon's newly-developed contour correction circuit uses a new algorithm that samples a total of 9 pixels of video data to consider the impact of surrounding pixels on important pixels in the enhancement process. Since pixels in the image are detected and processed in vertical, horizontal, and diagonal directions, this technology generates more natural contours. The use of separate algorithms for brightness and color signals, the suppression of ringing that easily occurs during enhancement and other effective processes best suited to the picture also contribute to a more naturally enhanced image with negligible degradation.

**Digital Bass Management:** When playing multi-channel Dolby Digital, LPCM or DVD-Audio/MLP sources, it is possible to preset speaker configurations and delay times. The crossover point is fixed at 80 Hz with 12 dB high and 24 dB low pass filter slopes.



**UHC (Ultra High Current) Single Push-Pull Circuit:** For the past ten years, the dream of power amps has been to support low-impedance speakers. Unfortunately, however, the fulfilment of this dream has always been a difficult proposition, and Denon eventually felt the need to rethink its approach. The result has been to combine high output power with detailed musical expression, a high-grade solution that is the first of its kind.

The challenge facing Denon has been to amplify with dynamic strength and absolute clarity the creative energy transmitted by the artist and to keep apace with the ever-changing musical signal levels. A hefty power supply unit with ample reserves and a power amp that is capable of supplying pure, dynamic signals to the speakers so that the music is heard with absolute transparency are the primary requirements. Also required are transient response characteristics that amplify even low-level signals with impeccable precision. No matter how superior the dynamic range or the frequency characteristics may be, these features are meaningless if the amp cannot instantly follow the sudden rises and falls in sound.

**Leakage Cancelling (LC) Mounted Twin Transformers, for Wide Dynamic Range and Low Noise:** By employing a large magnetic circuit with low magnetic flux density, the power transformer achieves superior response characteristics capable of accommodating musical signals with a broad dynamic range even in areas of magnetic saturation. The LC mount, which serves to eliminate mutual interference caused by magnetic fields and other factors, significantly reduces leakage flux which is a source of noise inside the amp. The result is a powerful speaker drive that ensures both remarkably transparent speaker output and low noise.

**A/V Amplifiers and Receivers**

	<b>AVC-A1XV</b>	<b>AVC-A11XV</b>	<b>AVR-4306</b>	<b>AVR-3806</b>	<b>AVR-3805</b>
<b>Type</b>	Dolby Digital EX/DTS-ES THX Surround EX/ THX Ultra2 Certified A/V Amplifier	Dolby Digital EX/DTS-ES THX Surround EX/ THX Ultra2 Certified A/V Amplifier	Dolby Digital EX/DTS-ES AV Receiver	Dolby Digital EX/DTS-ES AV Receiver	Dolby Digital EX/DTS-ES AV Receiver
<b>Power Amplifier Section</b>					
Type	Same quality amplifier for all 10-channel		Same quality amplifier for all 7-channel	Same quality amplifier for all 7-channel	Same quality amplifier for all 7-channel
Rated Output	* THD figures are power amp stage values		* THD figures are power amp stage values	* THD figures are power amp stage values	* THD figures are power amp stage values
Front (L + R)	170 W + 170 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W + 140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W + 130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Center (A)	170 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Surround (L + R) (A)	170 W + 170 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W + 140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W + 130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Surround Back (L + R)	170 W + 170 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	140 W + 140 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	130 W + 130 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	120 W + 120 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)
Center (B)	170 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	-	-	-	-
Surround (L + R) (B)	170 W + 170 W (8 ohms, 20 Hz - 20 kHz, THD 0.05%)	-	-	-	-
<b>Preamplifier Section</b>					
Input Sensitivity/ Impedance	PHONO (MM): 2.5 mV/47 kohms CD, DVD, VDR, TV, DBS, VCR-1, VCR-2, VCR-3, VCR-4, V.AUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND (A)/L/R, SURROUND (B)/L/R, SURROUND BACK L/R : 200 mV/ 47 kohms SUBWOOFER: 200 mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, VDR, TV, DBS, VCR-1, VCR-2, VCR-3, V.AUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R : 200 mV/ 47 kohms SUBWOOFER: 200 mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, VDR, TV, DBS, VCR-1, VCR-2, VCR-3, V.AUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R : 200 mV/ 47 kohms SUBWOOFER: 200 mV/47 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, VDR, TV, DBS, VCR-1, VCR-2, V.AUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R : 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD, VDR, TV, DBS, VCR-1, VCR-2, V.AUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R : 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms
<b>FM Section</b>					
Tuning Frequency Range	-	-	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz
Usable Sensitivity	-	-	1.0 µV (11.2 dBf)	1.0 µV (11.2 dBf)	1.0 µV (11.2 dBf)
<b>AM Section</b>					
Tuning Frequency Range	-	-	520 - 1611 kHz	520 - 1611 kHz	520 - 1611 kHz
Usable Sensitivity	-	-	18 µV	18 µV	18 µV
<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power Consumption</b>	850 W	610 W	570 W	540 W	390 W
<b>Dimensions (W x H x D)</b>	434 x 280 x 505 mm	434 x 178 x 500 mm	434 x 171 x 429 mm	434 x 171 x 429 mm	434 x 171 x 429 mm
<b>Weight</b>	44.0 kg	23.6 kg	18.5 kg	17.5 kg	17.0 kg

**DVD Players**

	<b>DVD-A1XVA</b>	<b>DVD-3910</b>	<b>DVD-2910</b>	<b>DVD-1920</b>	<b>DVD-1720</b>
<b>Type</b>	DVD Audio/Video & Super Audio CD Player	DVD-Audio/Video & Super Audio CD Player	DVD-Audio/Video & Super Audio CD Player	DVD-Audio/Video & Super Audio CD Player	DVD-Video Player
<b>Video Section</b>					
<b>Signal System</b>	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC (*1)	PAL / NTSC (*1)
<b>Video Output (75 ohms)</b>	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p
<b>S-video Output Connector:</b>					
Y Output (75 ohms)	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p
C Output (75 ohms)	0.3 Vp-p	0.3 Vp-p	0.3 Vp-p	0.3 Vp-p	0.3 Vp-p
<b>RGB Video Output</b>					
R Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
G Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
B Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
<b>Component Output</b>					
Y Output Level	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p
Pb (Cb) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
Pr (Cr) Output Level (75 ohms)	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p	0.7 Vp-p
<b>Audio Section</b>					
<b>Audio Signal Output</b>	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)	2 Vrms (1 kHz, 0 dB)
2-ch Mixed Output	1 system	1 system	1 system	1 system	1 system
5.1-ch Discrete Output	1 system	1 system	1 system	1 system	
<b>DVD Linear Audio</b>					
Frequency Response	2 Hz - 22 kHz / 48 kHz sampling 2 Hz - 44 kHz / 96 kHz sampling 2 Hz - 88 kHz / 192 kHz sampling	2 Hz - 22 kHz / 48 kHz sampling 2 Hz - 44 kHz / 96 kHz sampling 2 Hz - 88 kHz / 192 kHz sampling	2 Hz - 22 kHz / 48 kHz sampling 2 Hz - 44 kHz / 96 kHz sampling 2 Hz - 88 kHz / 192 kHz sampling	4 Hz - 20 kHz / 48 kHz sampling 4 Hz - 40 kHz / 96 kHz sampling 4 Hz - 88 kHz / 192 kHz sampling	4 Hz - 22 kHz / 48 kHz sampling 4 Hz - 44 kHz / 96 kHz sampling
Dynamic Range (DVD)	112 dB	110 dB	106 dB	98 dB	100 dB
<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 200-240 V, 50 Hz	AC 200-240 V, 50 Hz
<b>Power Consumption</b>	80 W	39 W	28 W	15 W	12 W
<b>Dimensions (W x H x D)</b>	434 x 170 x 432 mm	434 x 137 x 403 mm	434 x 101 x 322 mm	435 x 75 x 310 mm	435 x 75 x 310 mm
<b>Weight</b>	19.0 kg	9.3 kg	5.5 kg	2.6 kg	2.3 kg

\*1) PAL60 signals can be output only when NTSC disc played and connected via component or RGB(SCART) terminals to an equipment or a monitor which can receive such signals.  
In above mentioned conditions: PAL60 can be output via RGB (SCART), Component (interlaced/Progressive) and DVI terminals on DVD-1920, or RGB (SCART), Component (interlaced/Progressive) terminals on DVD-1720.

<b>A/V Receivers</b>						
	<b>AVR-2805</b>	<b>AVR-2106</b>	<b>AVR-1906</b>	<b>AVR-1706</b>	<b>AVR-1306</b>	
<b>Type</b>	Dolby Digital EX/DTS-ES A/V Receiver	Dolby Digital EX/DTS-ES A/V Receiver	Dolby Digital EX/DTS-ES A/V Receiver	Dolby Digital EX/DTS-ES A/V Receiver	Dolby Digital/DTS A/V Receiver	
<b>Power Amplifier Section</b>						
Type	Same quality amplifier for all 7-channel	Same quality amplifier for all 7-channel	Same quality amplifier for all 7-channel	Same quality amplifier for all 7-channel	Same quality amplifier for all 5-channel	
Rated Output	* THD figures are power amp stage values	* THD figures are power amp stage values	* THD figures are power amp stage values	* THD figures are power amp stage values	* THD figures are power amp stage values	
Front (L + R)	100 W + 100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	
Center (A)	100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	
Surround (L + R) (A)	100 W + 100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	
Surround Back (L + R)	100 W + 100 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	90 W + 90 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	80 W + 80 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	75 W + 75 W (8 ohms, 20 Hz - 20 kHz, THD 0.08%)	-	
Center (B)	-	-	-	-	-	
Surround (L + R) (B)	-	-	-	-	-	
<b>Preamp Section</b>						
Input Sensitivity/ Impedance	PHONO (MM): 2.5 mV/47 kohms CD, DVD, VDP, TV, DBS, VCR-1, VCR-2, VAUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R: 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms	PHONO (MM): 2.5 mV/47 kohms CD, DVD/ VDP, TV/DBS, VCR-1, VCR-2, VAUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R: 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms	CD, AUX, DVD/VDP, TV/DBS, VCR, VAUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R: 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms	CD, AUX, DVD/VDP, TV/DBS, VCR, VAUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R: 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms	CD, AUX, DVD/VDP, TV/DBS, VCR, VAUX, CDR/TAPE, FRONT L/R, CENTER, SURROUND L/R: 200 mV/ 47 kohms SUBWOOFER: 200 mV/15 kohms	
<b>FM Section</b>						
Tuning Frequency Range	87.5 - 108.0 MHz	87.5 - 108.0MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz	
Usable Sensitivity	1.0 µV (11.2 dBf)	1.0 µV (11.2 dBf)	1.0 µV (11.2 dBf)	1.0 µV (11.2 dBf)	1.0 µV (11.2 dBf)	
<b>AM Section</b>						
Tuning Frequency Range	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz	
Usable Sensitivity	18 µV	18 µV	18 µV	18 µV	18 µV	
<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	
<b>Power Consumption</b>	290 W	450 W	430 W	410 W	350 W	
<b>Dimensions (W x H x D)</b>	434 x 171 x 429 mm	434 x 171 x 417 mm	434 x 147 x 417 mm	434 x 147 x 417 mm	434 x 147 x 417 mm	
<b>Weight</b>	13.5 kg	12.8 kg	11.4 kg	10.9 kg	10.4 kg	
<b>Home Theater Systems</b>						
	<b>DHT-550SD</b>	<b>DHT-500SD</b>	<b>DHT-M330DV</b>	<b>D-M51DVS</b>	<b>S-301</b>	<b>S-101</b>
<b>DVD Section</b>						
<b>Signal System</b>	PAL	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC
<b>Video Output Level/Load Impedance</b>						
Composite Output (75 ohms)	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p	1.0 Vp-p (at SCART out)	1.0 Vp-p (at SCART out)	1.0 Vp-p (at SCART out)
S-Video Output (75 ohms)	Y; 1.0 Vp-p, C; 0.3 Vp-p (PAL)	Y; 1.0 Vp-p, C; 0.3 Vp-p (PAL)	Y; 1.0 Vp-p, C; 0.3 Vp-p (PAL)	Y; 1.0 Vp-p (at SCART out), C; 0.3 Vp-p (PAL)	Y; 1.0 Vp-p (at SCART out), C; 0.3 Vp-p (PAL)	Y; 1.0 Vp-p (at SCART out), C; 0.3 Vp-p (PAL)
<b>RGB Output (75 ohms)</b>	0.7 Vp-p (at SCART out)	0.7 Vp-p (at SCART out)	0.7 Vp-p (at SCART out)	0.7 Vp-p (at SCART out)	0.7 Vp-p (at SCART out)	0.7 Vp-p (at SCART out)
<b>Audio Output Level</b>						
Audio Output (1 kHz, 0 dB: DVD)	2 V	2 V	2 V	1.1 V (REC OUT)	2 V	2 V
<b>Power Amplifier Section</b>						
Rated Output	100 W x 6 (6 ohms)	100 W x 6 (6 ohms)	20 W x 6 (6 ohms)	35 W x 2 (6 ohms)	70 W x 2 (4 ohms)	50 W x 2 (4 ohms)
Tone Control	Treble: ±6 dB at 10 kHz Bass: ±6 dB at 100 Hz	Treble: ±10 dB at 10 kHz Bass: ±10 dB at 100 Hz	Treble: ±10 dB at 10 kHz Bass: ±10 dB at 100 Hz	Treble: ±10 dB at 10 kHz Bass: ±10 dB at 100 Hz	- -	- -
Input Sensitivity/Impedance	DVD/VDP, TV/DBS, VCR, CDR/TAPE: 200 mV/47 kohms	VIDEO1, VIDEO2: 300 mV/47 kohms	DVD, TAPE: 200 mV/47 kohms	MD/LINE1, TAPE/LINE2: 200 mV/47 kohms	200 mV/47 kohms	200 mV/47 kohms
<b>FM Section</b>						
Tuning Frequency Range	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz
Usable Sensitivity	1.0 µV (11.2 dBf)	1.5 µV (14.8 dBf)	1.5 µV (14.8 dBf)	1.5 µV (14.8 dBf)	1.5 µV (14.8 dBf)	1.5 µV (14.8 dBf)
<b>AM Section</b>						
Tuning Frequency Range	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz
Usable Sensitivity	18 µV	20 µV	20 µV	20 µV	20 µV	20 µV
<b>General</b>						
<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power Consumption</b>	75 W (Receiver)/(1.0 W in Standby) 12 W (DVD Player)/(1.5 W in Standby)	155 W (1.0 W in standby)	15 W (1.0 W in standby)/(DVD Player)	75 W (1.0 W in standby)	85 W (0.7 W in standby)	75 W (0.7 W in standby)
<b>Dimensions (W x H x D)</b>	434 x 65 x 331 (Receiver) mm 434 x 65 x 307 (DVD Player) mm	434 x 80 x 348 mm	210 x 70 x 325 (Receiver) mm 210 x 70 x 317 (DVD Player) mm	210 x 95 x 367 mm	380 x 97 x 250 mm	380 x 97 x 250 mm
<b>Weight</b>	4.8 kg (Receiver) 2.3 kg (DVD Player)	5.4 kg	3.9 kg (Receiver) 2.1 kg (DVD Player)	3.5 kg	4.2 kg	4.2 kg
<b>Speakers</b>						
<b>Satellite speaker (Front speaker)</b>						
Dimensions (W x H x D)	70 x 210 x 161 mm	70 x 210 x 155 mm	70 x 210 x 161 mm	79 x 140 x 133 mm	134 x 335 x 76 mm	134 x 335 x 76 mm
Weight	1.1 kg	1.1 kg	1.1 kg	0.7 kg	2.0 kg	1.42 kg
<b>Centre speaker</b>						
Dimensions (W x H x D)	210 x 72 x 161 mm	210 x 72 x 155 mm	210 x 79 x 133 mm	-	-	-
Weight	1.1 kg	1.1 kg	1.0 kg	-	-	-
<b>Subwoofer</b>						
Dimensions (W x H x D)	232 x 452 x 395 mm	210 x 316 x 352 mm	232 x 452 x 395 mm	210 x 322 x 304 mm	236 x 368 x 460 mm	236 x 368 x 460 mm
Weight	11.2 kg	5.8 kg	11.2 kg	4.9 kg	15.4 kg	15.4 kg

Integrated Amplifier		Tuners			
	PMA-SA1		TU-1800DAB	TU-1500AE	TU-245RD
<b>Rated Output Power</b>		<b>DAB Tuner Section</b>			
8 ohms	50 W + 50 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	Tuning Frequency	174.928 (5A) - 239.200 (13F) MHz (BAND III) - 1452.960 (LA) - 1490.624 (LW) MHz (L-BAND) -	-	-
4 ohms	100 W + 100 W (1 kHz, 4 ohms, THD 0.7%)	Sensitivity	-99 dBm	-	-
<b>Total Harmonic Distortion</b>	0.007% (-3dB at rated output, 8Ω, 1 kHz)	Signal-to-Noise Ratio	103 dB	-	-
<b>Equaliser Amp Output</b>	150 mV	THD + N	0.007 % (1 kHz)	-	-
<b>Input Sensitivity/Impedance</b>		Channel Separation	87dB (1 kHz)	-	-
PHONO MM	2.5 mV/47 kohms	Selectivity	40 dB (at adjacent channel)	-	-
BALANCED	105 mV/100 kohms	Frequency Response	+0.5/-0.5 dB (5 Hz - 20 kHz)	-	-
LINE	105 mV / 47 kohms	Digital Output	Optical, Coaxial	-	-
<b>RIAA Deviation</b>	PHONO MM: 20Hz - 20kHz ±0.3dB	Analog Output Level	2 Vrms	-	-
<b>Signal-to-noise Ratio</b>		<b>FM Section</b>			
PHONO MM	89 dB (6 mV input)	Tuning Frequency	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz
BALANCED	105 dB	Usable Sensitivity	1.0 µV (11.2 dB), 1.2 µV (IHF)	1.0 µV (11.2 dB), 1.2 µV (IHF)	0.9 µV (10.3 dB)
LINE	105 dB	Signal-to-noise Ratio	Mono 77 dB (IHF), 73 dB (DIN)	Mono 77 dB (IHF), 73 dB (DIN)	Mono 82 dB (IHF)
<b>Power Supply</b>	AC 230 V, 50 Hz	Stereo	Stereo 72 dB (IHF), 68 dB (DIN)	Stereo 72 dB (IHF), 68 dB (DIN)	Stereo 76 dB (IHF)
<b>Power Consumption</b>	230W	Total Harmonic Distortion	Mono 0.15%	Mono 0.15%	Mono 0.5%
<b>Dimensions (W x H x D)</b>	434 x 181 x 508 mm	Stereo Separation (1 kHz)	Stereo 0.3%	Stereo 0.3%	Stereo 0.8%
<b>Weight</b>	30 kg	<b>AM Section</b>			
		Tuning Frequency Range	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz
		Usable Sensitivity	18 µV	18 µV	18 µV
		Signal-to-noise Ratio	53 dB	53 dB	53 dB
		<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
		<b>Power Consumption</b>	14 W	10 W	9 W
		<b>Dimensions (W x H x D)</b>	434 x 74 x 286 mm	434 x 73 x 286 mm	434 x 75 x 242 mm
		<b>Weight</b>	3.8 kg	3.6 kg	2.5 kg

Integrated Amplifiers					
	PMA-2000AE	PMA-1500AE	PMA-1055R	PMA-655R	PMA-495R
<b>Rated Output Power</b>					
8 ohms	80 W + 80 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	70 W + 70 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	65 W + 65 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	50 W + 50 W (20 Hz - 20 kHz, 8 ohms, THD 0.07%)	45 W + 45 W (20 Hz - 20 kHz, 8 ohms, THD 0.08%)
4 ohms	160 W + 160 W (1 kHz, 4 ohms, THD 0.7%)	140 W + 140 W (1 kHz, 4 ohms, THD 0.7%)	140 W + 140 W (1 kHz, 4 ohms, THD 0.7%)	120 W + 120 W (1 kHz, 4 ohms, THD 0.7%)	85 W + 85 W (1 kHz, 4 ohms, THD 0.7%)
<b>Input Sensitivity/Impedance</b>					
PHONO MC	0.2 mV/100 ohms	0.2 mV/100 ohms	-	-	-
PHONO MM	2.5 mV/47 kohms	2.5 mV/47 kohms	2.5 mV/47 kohms	2.5 mV/47 kohms	2.5 mV/47 kohms
LINE	135 mV/47 kohms	125 mV/47 kohms	150 mV/47 kohms	150 mV/47 kohms	150 mV / 30 kohms
<b>Signal-to-noise Ratio</b>					
PHONO MC	74 dB (0.5 mV input)	74 dB (0.5 mV input)	-	-	-
PHONO MM	89 dB (5 mV input)	89 dB (5 mV input)	86 dB (5 mV input)	86 dB (5 mV input)	84 dB (5 mV input)
LINE	108 dB	108 dB	107 dB	107 dB	105 dB
<b>Tone Control</b>					
Treble	± 8 dB at 10 kHz	± 8 dB at 10 kHz	± 8 dB at 10 kHz	± 8 dB at 10 kHz	± 8 dB at 10 kHz
Bass	± 8 dB at 100 Hz	± 8 dB at 100 Hz	± 8 dB at 100 Hz	± 8 dB at 100 Hz	± 8 dB at 100 Hz
Loudness	-	-	+ 6 dB at 100 Hz, + 6 dB at 10 kHz	+ 6 dB at 100 Hz, + 6 dB at 10 kHz	+ 10 dB at 50 Hz, + 5 dB at 10 kHz
<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power Consumption</b>	310W	305 W	250 W	185 W	170 W
<b>Dimensions (W x H x D)</b>	434 x 181 x 480 mm	434 x 134 x 410 mm	434 x 144 x 347 mm	434 x 121 x 338 mm	434 x 120 x 282 mm
<b>Weight</b>	24.0 kg	14.6 kg	9.9 kg	7.0 kg	6.0 kg

Receivers			
	DRA-1000	DRA-455	DRA-295
<b>Power Amplifier Section</b>			
Rated Output	65 W + 65 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)	52 W + 52 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)	50 W + 50 W (8 ohms, 20 Hz - 20 kHz, THD 0.05 %)
	90 W + 90 W (1 kHz, 4 ohms, THD 0.7%)	65 W + 65 W (1 kHz, 4 ohms, THD 0.7%)	70 W + 70 W (1 kHz, 4 ohms, THD 0.7%)
<b>Preamplifier Section</b>			
Input Sensitivity/Impedance	PHONO (MM) : 2.5 mV/47 kohms CD, VIDEO, TAPE 1, TAPE 2 : 150 mV/25 kohms	PHONO (MM) : 2.5 mV/47 kohms CD, VIDEO, TAPE : 150 mV/25 kohms	CD, DVD/VDR, AUX, CDR,TAPE: 200 mV/47 kohms
Tone Control	Bass 100 Hz : ±10 dB Treble 10 kHz : ±10 dB	Bass 100 Hz : ±10 dB Treble 10 kHz : ±10 dB	Bass 100 Hz : ±10 dB Treble 10 kHz : ±10 dB
<b>FM Section</b>			
Tuning Frequency Range	87.5 - 108.0 MHz	87.5 - 108.0 MHz	87.5 - 108.0 MHz
Usable Sensitivity	0.9 µV (10.3 dB)	0.9 µV (10.3 dB)	1.4 µV (14.2 dB)
<b>AM Section</b>			
Tuning Frequency Range	522 - 1611 kHz	522 - 1611 kHz	522 - 1611 kHz
Usable Sensitivity	18 µV	18 µV	18 µV
<b>Power Supply</b>	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
<b>Power Consumption</b>	190 W	190 W	150 W
<b>Dimensions (W x H x D)</b>	434 x 134 x 366 mm	434 x 119 x 310 mm	434 x 147 x 417 mm
<b>Weight</b>	8.5 kg	6.1 kg	9.2 kg

CD/Super Audio CD Players						
	DCD-SA1		DCD-2000AE		DCD-1500AE	
	Super Audio CD	CD	Super Audio CD	CD	Super Audio CD	CD
<b>Channels</b>	2 channels	2 channels	2 channels	2 channels	2 channels	2 channels
<b>Frequency Response</b>	2Hz-50kHz	2Hz-20kHz	2Hz-50kHz	2Hz-20kHz	2Hz-50kHz	2Hz-20kHz
<b>Dynamic Range</b>	110 dB	100 dB	110 dB	100 dB	104dB	100 dB
<b>Signal-to-noise Ratio</b>	117 dB	120 dB	119 dB	119 dB	104 dB	110 dB
<b>Total Harmonic Distortion</b>	0.0005%	0.0015%	0.0006%	0.0017%	0.0013%	0.002%
<b>Wow &amp; Flutter</b>	Below measurable limit: (± 0.001 % W, peak)	Below measurable limit: (± 0.001 % W, peak)	Below measurable limit: (± 0.001 % W, peak)	Below measurable limit: (± 0.001 % W, peak)	Below measurable limit: (± 0.001 % W, peak)	Below measurable limit: (± 0.001 % W, peak)
<b>Output Voltage</b> : Unbalanced	2.0 V (10kΩ)	2.0 V (10kΩ)	2.0 V (10kΩ)	2.0 V (10kΩ)	2.0V (10kΩ)	2.0V (10kΩ)
: Balanced	2.0 V (10kΩ)	2.0 V (10kΩ)	-	-	-	-
<b>Digital Output</b> : Coaxial	-	0.5 Vp-p/75Ω	-	0.5 Vp-p/75Ω	-	0.5Vp-p/75Ω
: Optical	-	-15 - -21dbm	-	-15 - -21dbm	-	-15 - -21dbm
: Emission wavelength	-	660nm	-	660nm	-	660nm
<b>Digital Input</b> : Format	-	Digital Audio Interface (Linear PC)	-	-	-	-
: Coaxial	-	0.5 Vp-p/75Ω	-	-	-	-
: Optical	-	above -27 dBm, 660nm	-	-	-	-
<b>Power Supply</b>	AC 230 V, 50 Hz		AC 230 V, 50 Hz		AC 230 V, 50 Hz	
<b>Power Consumption</b>	35 W		20 W		16 W	
<b>Dimensions (W x H x D)</b>	434 x 150 x 410 mm		434 x 137 x 335 mm		434 x 135 x 331 mm	
<b>Weight</b>	21.8 kg		13.3 kg		7.6 kg	

CD Players		CD Changer		CD Recorder	
	<b>DCD-685</b>	<b>DCD-485</b>	<b>DCM-280</b>		<b>CDR-W1500</b>
Channels	2 channel stereo	2 channel stereo	2 channel stereo	Type	CD Player + CD-R/CD-RW Recorder
Dynamic Range	100 dB	98 dB	98 dB	Channels	2 channel stereo
Signal-to-noise Ratio	110 dB	105 dB	108 dB	Dynamic Range	98/88 dB (CD drive/CD-R drive)
Total Harmonic Distortion	0.003%	0.003%	0.003%	Signal-to-noise Ratio	105/100 dB (CD drive/CD-R drive)
Channel Separation	103 dB	102 dB	96 dB	Total Harmonic Distortion	0.003/0.01 % (CD drive/CD-R drive)
Number of D/A Converters	Double Real 20-Bit LAMBDA SLC	Delta Sigma 24-Bit	Multilevel Noise Shaping DAC	Number of D/A Converters	24-Bit DAC (CD drive)
Oversampling	8 times	8 times	8 times	Oversampling	8 times
Programmable (No. of selection)	20 selections	20 selections	32 selections	Power Supply	AC 230 V, 50 Hz
Power Supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	Power Consumption	29 W
Power Consumption	12 W	11 W	15 W	Dimensions (W x H x D)	434 x 100 x 310 mm
Dimensions (W x H x D)	434 x 100 x 285 mm	434 x 100 x 285 mm	434 x 115 x 392 mm	Weight	5.5 kg
Weight	3.6 kg	3.4 kg	5.7 kg		

Cassette Decks		Turntable	
	<b>DRM-595</b>	<b>DRW-695</b>	<b>DP-29F</b>
Type	4-track, 2-channel Auto reverse Stereo Single Cassette Deck	4-track, 2-channel Auto reverse Stereo Double Cassette Deck	Drive System Belt Drive Motor
Heads			Motor DC Servo Motor
Record and Playback	Record x 1, Playback x 1 (Combination Head)	Record x 1, Playback x 1 (Combination Head) Playback x 1	Speed 33-1/3, 45 rpm
Erase	Double Gap Ferrite Head x 1	Double Gap Ferrite Head x 1	Wow & Flutter Less than 0.15%
Motors			Signal-to-noise Ratio 60 dB (DIN-B)
Capstan	DC servo motor x 1	DC servo motor x 2	Tonearm Type
Reel	DC motor x 1	-	Dynamically Balance type, Straight Tonearm
Wow/Flutter	0.08% ±0.14% peak value	0.08% ±0.14% peak value	Cartridge Type
Frequency Response (Metal tape)	20 Hz - 19 kHz (20 Hz - 17 kHz, ±3 dB)	20 Hz - 19 kHz (25 Hz - 18 kHz, ±3 dB)	MM (DSN-82)
Signal-to-noise Ratio	More than 74 dB (Dolby-C)	More than 74 dB (Dolby-C)	Output Voltage 2.5 mV
Power Supply	AC 230 V, 50 Hz	AC 230 V, 50 Hz	Power Supply AC 230 V, 50 Hz
Power Consumption	16 W	16 W	Power Consumption 2 W
Dimensions (W x H x D)	434 x 135 x 270 mm	434 x 135 x 263 mm	Dimensions (W x H x D) 360 x 97 x 357 mm
Weight	3.6 kg	4.0 kg	Weight 2.8 kg

Cartridges				
	<b>DL-103</b>	<b>DL-160</b>	<b>DL-110</b>	<b>DL-304</b>
Type	MC	MC	MC	MC
Output Voltage	0.3 mV	1.6 mV	1.6 mV	0.18 mV
Frequency Range	20 Hz - 45 kHz	20 Hz - 50 kHz	20 Hz - 45 kHz	20 Hz - 75 kHz
Output Impedance	40 ohms	160 ohms	160 ohms	40 ohms
Weight	8.5 g	4.8 g	4.8 g	7 g

Receivers		CD Receivers		
	<b>DRA-201SA</b>	<b>DRA-F101</b>	<b>RCD-M35DAB</b>	<b>RCD-M33</b>
Power Amplifier Section			Power Amplifier Section	
Rated Output Power	50 W + 50 W (4 ohms, 1 kHz, 0.7% THD)	35 W + 35 W (4 ohms, 1 kHz, 0.7% THD)	Rated Output Power	22 W + 22 W (6 ohms, 1 kHz)
Preamplifier Section			FM Section	
Input Sensitivity/Impedance	PHONO MM: 2.5 mV/47 kohms LINE: 100 mV/16 kohms	PHONO MM: 2.5 mV/47 kohms LINE: 300 mV/47 kohms	Frequency Range	87.5 - 108.0 MHz
Tone Control	Bass: 100 Hz ±8 dB Treble: 10 kHz ±8 dB	Bass: 100 Hz ±8 dB Treble: 10 kHz ±8 dB	AM Section	
FM Section			Frequency Range	522 - 1611 kHz
Frequency Range	87.5 - 108.0 kHz	87.5 - 108.0 kHz	DAB Tuner	
Usable Sensitivity	1.2 µV (12.8 dBf)	1.2 µV (12.8 dBf)	Frequency Range	BAND III 170MHz - 240MHz
Signal-to-noise Ratio	Mono: 77 dB Stereo: 71 dB	Mono: 74 dB Stereo: 70 dB	CD Player Section	
AM Section			Type	Single CD Player
Frequency Range	522 - 1611 kHz	522 - 1611 kHz	Programming	25 tracks
Usable Sensitivity	18 µV	18 µV	Power Source	230 V, 50 Hz, 50 W
Power Source	230 V, 50 Hz, 110 W	230 V, 50 Hz, 85 W (less than 1 W in standby)	Dimensions (W x H x D)	210 x 95 x 328 mm
Dimensions (W x H x D)	250 x 90 x 371 mm	250 x 82 x 285 mm	Weight	4.3 kg
Weight	6.2 kg	3.5 kg		

Integrated Amplifier		CD Players		
	<b>PMA-201SA</b>	<b>DCD-201SA</b>	<b>DCD-F101</b>	
Power Amplifier Section		Type	2-channel, Stereo	2-channel, Stereo
Rated Output Power	50 W + 50 W (4 ohms, 1 kHz, 0.7% THD)	Frequency Response	2 Hz - 20 kHz	2 Hz - 20 kHz
Preamplifier Section		Dynamic Range	100 dB	95 dB
Input Sensitivity/Impedance	PHONO MM: 2.5 mV/47 kohms LINE IN: 100 mV/16 kohms	Signal-to-noise Ratio	105 dB	102 dB
Signal-to-noise Ratio	PHONO MM: 83 dB LINE: 104 dB	Programming	30 tracks	30 tracks
Tone Control	Bass: 100 Hz ±8 dB Treble: 10 kHz ±8 dB	Power Source	230 V, 50 Hz, 10 W (less than 1 W in standby)	230 V, 50 Hz, 10 W
Power Source	230 V, 50 Hz, 110 W less than 1 W in standby)	Dimensions (W x H x D)	250 x 90 x 346 mm	250 x 82 x 265 mm
Dimensions (W x H x D)	250 x 90 x 371 mm	Weight	3.3 kg	2.6 kg
Weight	6.0 kg			

Tuner		Cassette Decks			
	<b>TU-201SA</b>	<b>DRR-201SA</b>	<b>DRR-F101</b>	<b>DRR-M33</b>	
FM Section		Heads			
Frequency Range	87.5 - 108.0 MHz	Record and Playback	Hard Permalloy Record / Playback Head x 1	Hard Permalloy Record / Playback Head x 1	Hard Permalloy Record / Playback Head x 1
Usable Sensitivity (75 ohms)	1.2 µV	Erase	Double Gap Ferrite Erase Head x 1	Double Gap Ferrite Erase Head x 1	Double Gap Ferrite Erase Head x 1
Signal-to-noise Ratio	Mono: 77 dB Stereo: 71 dB	Power Source	230 V, 50 Hz, 13 W (less than 1 W in standby)	230 V, 50 Hz, 9 W	230 V, 50 Hz, 9 W
AM Section		Dimensions (W x H x D)	250 x 90 x 356 mm	250 x 82 x 269 mm	210 x 95 x 325 mm
Frequency Range	522 - 1611 kHz	Weight	3.6 kg	2.8 kg	3.1 kg
Usable Sensitivity	18 µV				
Power Source	230 V, 50 Hz, 9 W (less than 1 W in standby)				
Dimensions (W x H x D)	250 x 90 x 352 mm				
Weight	2.8 kg				

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