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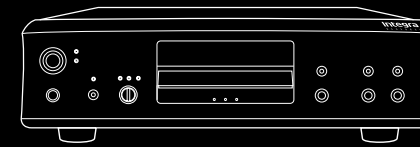


One System from Four Legends

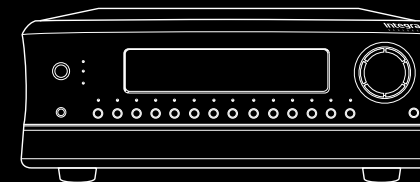
Apogee, Balanced Audio Technology, THX and Onkyo.

Four premier names in home entertainment offer, for your pleasure, Integra Research.

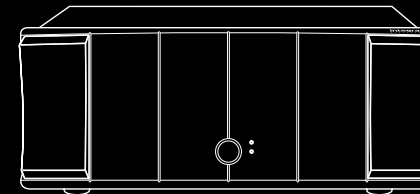
One audition is all that's required.



RDV-1.1
Universal DVD Player



RDC-7.1
A/V Controller/Preamplifier



RDA-7.1
Power Amplifier



Integra[®]
R E S E A R C H

Integra Research—The Focus is on Innovative Excellence

Innovation. The introduction of new ideas and methods. Excellence. Being of the highest quality. From one company these are remarkable. When you combine the best from four companies recognized around the world for the highest levels of distinction, “innovation” and “excellence” take on entirely new meanings.

The concept behind Integra Research is simple yet revolutionary. Draw upon the technology resulting from more than 50 years at the forefront of innovative excellence from Onkyo. Next, integrate that of three other companies whose names are synonymous with technological preeminence—THX, Apogee Electronics Corporation, and Balanced Audio Technology. The result is an unprecedented design and symmetry that provides unparalleled auditory and visual excellence.

Take construction. Let’s just say when you’re working with some of the most renowned names in the field, it’s not just one set of criteria to live up to. Inside this THX Certified system, you’ll find the pinnacle of engineering achievement. Professional-grade video circuitry. Balanced inputs and outputs. An emphasis on a sturdy and well-thought-out design to keep vibrations and noise to a minimum. The latest in connection technology with i.LINK (IEEE-1394) and HDMI (High-Definition Multimedia Interface). And reference level transformers and capacitors to power a system designed for the most accurate reproduction of movies and music, just as they were intended to be.

Apogee, BAT, Onkyo and THX. That’s a lot of knowledge. So, with knowledge truly being power, experience innovative excellence designed for serious music devotees and home theater aficionados.

The Companies Behind Integra Research

“Sound is 50% of the experience.”

—George Lucas, creator of *Star Wars*

Created originally as a studio reference monitoring tool, the Home THX Ultra System combines THX Ltd. expertise with world-class product design. All Integra Research components are THX™ Ultra certified. THX Ultra certification is your guarantee you’re getting the world’s highest performance home theater products.

In 1982, George Lucas challenged a group of engineers to permanently raise the quality of theatrical presentation. After more than 20 years, and more than 3000 THX certified theaters worldwide, only the size of the audience has changed.

Today, more people applaud the THX experience in more venues than ever. From multi-plex theaters to the world’s most discerning homes, the THX brand stands for the same thing—the best investment in entertainment that your money can buy. Which is why, today, THX products are more than a standard of technical excellence. They are your guarantee of the ultimate home theater experience.

“Our goal was to create a powerful and refined soundstage for an unmatched theater and concert experience.”

—Victor Khomenko, Chief Engineer, Balanced Audio Technology

Balanced Audio Technology, founded in 1995, has rapidly established an enviable and difficult-to-achieve position in the competitive high-end audio industry. They are known for producing a line of superbly engineered, meticulously crafted audio products that recreate music with unmatched fidelity and accuracy.

Balanced Audio Technology’s success is the result of its clear mission: to reproduce music faithfully and precisely, with arresting presence and without extraneous coloration. Their trademark audio designs feature uncommonly robust power supplies, coupled with elegantly straightforward signal paths.

This combination is evident in the BAT-designed Integra Research RDA-7.1 Power Amplifier. It boasts over 600 joules of energy storage in a beautifully direct, low-feedback symmetrical circuit. Which means your DVD movies and music will come alive as never before.

“Now users can have in their homes the same digital conversion system used in the mastering of many major Hollywood movie soundtracks.”

—Paul Yurt, Senior Design Engineer, Apogee Electronics Corporation

Apogee Electronics Corporation, founded in 1985 in Santa Monica California, is a world leader in professional digital-audio conversion systems. Today, Apogee-developed technology is used by nine out of ten major US mastering studios, and on over 80% of hit records mastered in the USA. Major Hollywood movies rely on Apogee equipment for their high-quality digital-audio production requirements. Blockbusters such as *Gladiator*, *Titanic*, *The X-Files*, *U-571*, and *The Prince of Egypt*, to name but a few, used Apogee converters. The reason is simple. The better the converter, the better the sound.

With a surround-sound home theater system and sources like high-resolution DVD-Audio and Super Audio CD, the accuracy of the digital converter is even more critical. The highly precise phase relationship between all of the speakers must be maintained.

If you don’t have accurate clocking at 96,000 or 192,000 samples per second, you won’t hear an accurate representation of what was mixed originally. Thanks to the renowned accuracy of the Apogee clock, you’ll experience unprecedented pinpoint imaging in your home theater, and enjoy a new clarity in all of your music.



RDV-1.1

Universal DVD Player



The Ultimate Audio and Video Experience

A component of this caliber could be created only by companies seeking perfection—Apogee, THX, and Integra Research. The result of this combined engineering power and experience is the finest audio and video performance for your home theater. How can we make this assertion? To start with, you have the choice of both standards for the highest-fidelity multi-channel music—DVD-Audio and Super Audio CD. Not only music but also your movies will benefit from world-renowned Apogee technology for a smooth performing, low-jitter digital clock circuit. Digital is not something we take lightly, as we have included i.LINK (IEEE1394) and HDMI (High-Definition Multimedia Interface) outputs for transmission that will enthrall you with the subtle nuances missed by lesser players. You'll also find your video enhanced, with scaling to 720p or 1080i for superlative video and plasma/LCD playback. And when you feel the cool, rigid, solid aluminum front panel and notice the brass stabilizers, you'll know unwanted vibrations will never taint your experience. All of this and much, much more is augmented by the highest mark of quality assurance: THX Ultra Certification.

THX Ultra Certified

Only those players capable of realizing the highest potential of DVD technology can bear the THX certification badge. It means the RDV-1.1 meets the exceedingly high THX Ltd. performance standards for not only the sound and picture, but also for user convenience, basic quality and long-term reliability.



Universal Playback

With the RDV-1.1, you'll not only find yourself enjoying the highest-quality video from your DVD collection but also pristine audio playback from reference-quality DVD-Audio and Super Audio CD, as well as any other 12 cm disc on the market. DVD-Audio and Super Audio CD are nothing less than the new world standards for super-high fidelity sound. DVD-Audio allows lossless reproduction of either 192 kHz/24-bit 2-channel stereo or 96 kHz/24-bit 6-channel surround sound. Super Audio CD provides stereo or multi-channel audio playback with a frequency response of up to 100 kHz and a sampling rate of 2.822 MHz to give pure sonic clarity. CD-R/DVD±Rs (write-once) and CD-RW/DVD±RWs (rewritable) with your favorite movies, music, MP3s or picture-coded files provide hours of uninterrupted performance for your home theater.



HDMI (High-Definition Multimedia Interface)

The RDV-1.1 incorporates the latest in interface technology, with the addition of HDMI (High-Definition Multimedia Interface) capability. This high-bandwidth interface supports not only remarkable amounts of uncompressed digital video, but audio as well. Up to 5 Gbps of data—more than twice what's needed for a high-definition movie with surround sound—can be handled, with room for future requirements. All this data is kept in the digital domain, as there are no D/A or A/D conversions needed, to ensure the highest sound and video quality available.



N.B. To output a video signal with HDCP (High-Bandwidth Digital Content Protection) via HDMI, the corresponding component must also support HDCP.

i.LINK (IEEE1394)

The allure of surround sound DVD-Audio and Super Audio CD had previously been limited by analog-only connections. i.LINK lets you broaden your multi-channel experience, while at the same time simplifying it. One wire allows you to transmit high-resolution multi-channel music in the digital—rather than the previous analog—domain, to get the DVD-Audio and Super Audio CD experience you've been waiting for.



Apogee Master Clock for the Highest Quality D/A Conversion

At the heart of a digital recording and playback system is the system clock, which controls the timing regularity of the sampling process during A/D and D/A conversion. Disruption of sampling regularity leads to jitter, a major factor in conversion degradation and the primary cause of an out-of-focus sound stage. In short, jitter wrecks havoc with your precious sound signal. Apogee's Low-Jitter Clock, however, ensures exceptionally accurate timing between each sample, for the most faithful playback of your digital recordings. For this reason, it has

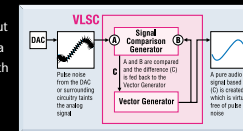


become the de facto standard in professional recording studios.



VLSC (Vector Linear Shaping Circuitry)

Conventional D/A conversion methods reduce digital pulse noise at the conversion stage but can't remove it completely. VLSC (Vector Linear Shaping Circuitry) employs a unique D/A conversion circuit to overcome this problem. Data is converted between the sampling points and these discrete sampling points are joined with analog vectors in real-time to produce a smooth output wave form. The result—a virtually noiseless, smooth analog signal based on the digital source.



VECTOR LINEAR SHAPING CIRCUITRY

Analog Devices 216 MHz/14-bit NSV Video DAC

A crucial factor in achieving clear, pristine digital video playback is the video D/A converter in your DVD player. The state-of-the-art 216 MHz/14-bit video DAC from Analog Devices featured in the RDV-1.1 gives you the finest artifact-free picture available. Features such as 4x oversampling and Noise Shaped Video (NSV) dramatically reduce noise interference to the video signal, so you can enjoy even the most subtle video detail in your favorite movies.



AES/EBU Digital Output

AES/EBU is a high-quality digital format used in professional equipment and high-end DVD/CD transports.



Progressive Scan with Sil 504 Video Processing Chip

The RDV-1.1 employs a remarkable Silicon Image video processing chip—the Sil 504—that converts interlaced signals to a progressive signal while dramatically improving image quality by eliminating visible scan lines, flicker and other motion and interlacing artifacts, as well as correcting errors during the video source-to-DVD transfer. With highly effective progressive/interlaced conversion capabilities, the RDV-1.1 is capable of producing pristine progressive images on high-definition televisions and digital displays. By incorporating only the very best in video processing technology, the RDV-1.1 brings you crisp, flicker-free images even during the most action-packed scenes.



3 Gold-Plated Component-Video Outputs (2 BNC/1 RCA)

Reveal the full potential of DVDs by providing a high-quality connection to compatible TVs, projectors and monitors. The "color-difference" outputs (Y, Pb, Pr) deliver stunning color fidelity, a more film-like, three-dimensional image and absolutely no discernible video noise.



State-of-the-Art Wolfson 192 kHz/24-bit DACs

Performing at full 192 kHz/24-bit levels of resolution, these DACs from premium chip maker Wolfson deliver industry standard-setting audio performance that is second to none. The advantages of the Wolfson chip architecture include ideal differential linearity, no distortion mechanisms due to resistor matching errors, no linearity drift over time and temperature, and a high tolerance to clock jitter for the best performance possible from DVD-Audio, Super Audio CD and whatever other high-resolution formats the future has in store.



Oplis FlexScale Video Scaling Capability

While HD-DVD with a native resolution of over NTSC 480p or PAL 576p is still on the drawing board, you can experience HD level 720p or 1080i via FlexScale video scaling capability from Oplis. Built-in to the RDV-1.1 and not requiring costly external scalars, FlexScale takes DVDs beyond normal progressive scan players and into the HD domain by enabling 720p or 1080i output through the HDMI (High-Definition Multimedia Interface) out on the rear.



FLEXSCALING
Authorized by ©PLUS

Exclusive Dual Direct Digital Path

Unlike other DVD players that use inexpensive PC-board copper traces to transfer the digital audio signal, the RDV-1.1 employs dual high-purity, heavy-gauge, shielded cables to directly output digital or PCM bitstreams straight from the disc to the back panel. This protects the audio signal against potential noise from nearby microprocessors and power supplies. So if you use the optical or coaxial digital output to send multi-channel Dolby Digital, DTS and more to your compatible receiver, you're starting off with the cleanest possible signal.



Integra®

R E S E A R C H

- THX® Ultra Certification
- DVD-Audio and Super Audio CD Playback
- Oplus® FlexScale™ High-Definition Video Scaling of DVD and External Sources
- NTSC 3:2 Pull-Down/PAL Veridic Progressive Scan with Silicon Image Chipset
- High-Quality HDMI Input and Output
- 2 i.LINK (IEEE1394) Digital Ports
- 2 BNC Component Video Outputs
- Component Video Input/Output (RCA)
- Apogee Master Clock for the Highest Quality D/A Conversion
- VLSC—Vector Linear Shaping Circuitry
- Exclusive Dual Direct Digital Path
- Wolfson® 192 kHz/24-Bit Audio DACs
- Analog Devices Dual 216 MHz/14-Bit High-Grade Video D/A Converters

- Bi-Directional RS232 Terminal
- 12V Trigger Input and IR Input/Output
- Multi-Channel Outputs
- 5 Digital Audio Outputs (1 AES/EBU, 2 Optical, 2 Coaxial)
- S-Video Input/2 Outputs
- Composite Video Input/2 Outputs
- Parallel Outputs—All Outputs Active Simultaneously
- Dolby® Digital and DTS® Decoder
- Plays DVD-Audio & Video, Super Audio CD, CD-Rs, CD-RWs, DVD±Rs, DVD±RWs, JPEG/Picture CDs, MP3 CDs, Video & Audio CDs
- On-Screen Display (English, French, Spanish, German, Italian, Chinese)
- 4-Mode Display Dimmer
- Video Circuit On/Off Control
- Rigid Aluminum Front/Side/Top Panels and Brass Stabilizers
- Preprogrammed Backlit Learning Remote Control

SPECIFICATIONS		RDV-1.1 Universal DVD Player	
Signal Readout System	Optical no-contact	Frequency Response	4 Hz-96 kHz (DVD-Audio, 192 kHz) 4 Hz-44 kHz (DVD, 96 kHz) 4 Hz-22 kHz (DVD, 48 kHz) 4 Hz-20 kHz (CD, 44.1 kHz)
Linear Velocity	3.49 m/s (Single Layer) 3.84 m/s (Dual Layer)	Harmonic Distortion	0.002%
Error Correction System	Reed-Solomon product code	Dynamic Range	106 dB
Signal System	PAL/NTSC	Signal-to-Noise Ratio	112 dB
Composite Video Output	1.0 Vp-p, 75 Ω, Negative sync., Pin jack x 2	Wow and Flutter	Below threshold of measurability
S-Video Output	(Y) 1.0 Vp-p, 75 Ω, Negative sync., Mini DIN 4-pin x 2, (C) 0.286 Vp-p, 75 Ω	Dimensions (W x H x D)	450 x 123 x 381 mm
Component Video Output	(Y) 1.0 Vp-p, 75 Ω, Negative sync., Pin jack x 3 (Pb)/(Pr) 0.7 Vp-p, 75 Ω	Weight	12.1 kg
Audio Output		Supplied Accessories	Audio-Video cable, S-Video cable, Remote control transmitter RC-561DV, HDMI cable, i.LINK cable
Digital Audio Coaxial	0.5 Vp-p, 75 Ω, Pin jack x 2		
Digital Audio Optical	-22.5 dBm x 2		
Audio Output			
Analog Audio	2.0 V (RMS), 470 Ω, Pin jack (L, R), 2.0 V (RMS), 470 Ω, Pin jack (FL, FR, SL, SR, C, SW, SBL, SBR)		

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RDV-1.1

Universal DVD Player



Integra

RESEARCH

SPECIFICATIONS	RDC-7.1	A/V Controller/Preamplifier
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AMPLIFIER SECTION

Total Harmonic Distortion	0.05% at 1 V output
Frequency Response (CD in, Direct mode)	5 Hz-100 kHz: +1 dB, -3 dB
RIAA Deviation	20 Hz-20 kHz: ±0.8 dB
S/N Ratio PHONO (MM) CD/TAPE	80 dB (IHF, A, 5 mV input) 95 dB (IHF, A, 0.5 V input)
Phono Overload (1 kHz)	120 mV (RMS), 1 kHz, 0.5% THD
IM Distortion	0.05% at 1 V output

Input Sensitivity and Impedance	
PHONO MM	2.5 mV, 50 kΩ
LINE (CD, TAPE, DVD, VIDEO 1-5)	200 mV, 50 kΩ
MULTI CH INPUT	200 mV, 50 kΩ
MULTI CH INPUT (Subwoofer)	36 mV, 50 kΩ
DIGITAL IN (COAXIAL 1-6)	0.5 Vp-p, 75 Ω
DIGITAL IN (Balanced) AES/EBU	1.3 Vp-p, 110 Ω
DVD, VIDEO 1-5	1 Vp-p, 75 Ω (Composite Video) 1 Vp-p, 75 Ω (S-Video, Y Signal) 0.28 Vp-p, 75 Ω (S-Video, C Signal) 1 Vp-p, 75 Ω (Y) 0.7 Vp-p, 75 Ω (Pa/Ca, Pr/Cr)

COMPONENT VIDEO

Output Level and Impedance	
REC OUT (TAPE 1-2, VIDEO 1-3)	200 mV, 470 Ω
PRE OUT (Front L/R, Center, Surround L/R, Surround Back or Zone 2 L/R, Subwoofer)	1 V, 470 Ω
ZONE 2/3 OUT	100 mV, 470 Ω
VIDEO 1-4 (Composite Video)	1 Vp-p, 75 Ω (Monitor out A/B, Video 1-3 Rec out)
VIDEO 1-4 (S-Video, Y Signal)	1 Vp-p, 75 Ω (Monitor out A/B, Video 1-3 Rec out)
VIDEO 1-4 (S-Video, C Signal)	0.28 Vp-p, 75 Ω (Monitor out A/B, Video 1-3 Rec out)
COMPONENT VIDEO OUT	1 Vp-p, 75 Ω (Y)/0.7 Vp-p, 75 Ω (Pa/Ca, Pr/Cr)

Tone Controls	
BASS	±12 dB at 50 Hz
MID	±12 dB at 1 kHz
TREBLE	±12 dB at 20 kHz
Muting	Variable through setup menu

TUNER SECTION

Usable Sensitivity	
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV
50 dB Quieting Sensitivity	
FM Mono	17.2 dBf, 2.0 μV (75 Ω)
FM Stereo	37.2 dBf, 20 μV (75 Ω)
FM Capture Ratio	2.0 dB
Image Rejection Ratio	
FM/AM	85 dB/40 dB
IF Rejection	
FM/AM	90 dB/40 dB
S/N Ratio	
FM Mono/FM Stereo/AM	76 dB/70 dB/40 dB
FM Mono Alternate Channel Attenuation	55 dB, IHF
FM Selectivity	50 dB, DIN
AM Suppression Ratio (FM)	50 dB
Harmonic Distortion	
FM Mono/FM Stereo/AM	0.2%/0.3%/0.7%
FM Frequency Response	30 Hz-15 kHz (±1.0 dB)
FM Stereo Separation	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz
FM Stereo Threshold	17.2 dBf, 2.0 μV (75 Ω)

GENERAL

Dimensions (W x H x D)	450 x 197.3 x 477.1 mm
Weight	21.7 kg



RDC-7.1

A/V Controller/Preamplifier

- THX™ Ultra2 Certification
- THX™ Surround EX™ 7.1 Decoding
- Dolby® Digital EX™ and Pro Logic® IIx Decoding
- DTS®-ES™, Neo:6 and DTS® 96/24 Decoding
- Dolby® Headphone and Dolby® Virtual Speaker
- Apogee Master Clock
- VLSC—Vector Linear Shaping Circuitry
- Dual 32-Bit DSP Chips for Main and Zone 2
- 192 kHz/24-Bit DACs for All Channels
- Composite and S-Video Upconversion to Component Video and HDMI Output (NTSC and PAL Compatible)
- 2 High Quality HDMI Inputs & 1 Output
- 8 Balanced XLR Outputs for Stable, Noise-Free Signal Transfer
- 2 i.LINK (IEEE1394) Digital Ports
- Zone 2 and Zone 3 Capability
- Ethernet Cable Plug-In Capability (Net-Tune)

- Color-Coded 7.1 Multi-Channel Inputs and 2 Pre Outs
- Bi-Directional RS232 Port
- 5 12V Trigger Outputs (5 Assignable) and 3 IR Inputs/Outputs
- AES/EBU Digital Input
- 4 Component Video Inputs (3 RCA/1 BNC/4 Assignable) and 2 Outputs (RCA/BNC/2 Assignable)
- 6 S-Video/Composite Video Inputs and 4 Outputs
- 12 Digital Inputs (6 Optical/6 Coaxial/12 Assignable)
- 4 Digital Outputs (2 Optical/2 Coaxial/4 Assignable)
- 9 Audio Inputs/5 Outputs
- Phono Input
- High-Current Power Supply
- Individual Crossover Adjustment (40-150 Hz at 10 Hz Steps)
- Detachable Power Cord
- Rigid Aluminum Front/Side/Top Panels and Brass Stabilizers
- Elegant Aluminum-Faced Remote Control with Scroll Wheel and LCD Display

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RDA-7.1

Power Amplifier



Integra®

R E S E A R C H

One Button is All You Need to Unleash the Power Behind the Panel

Call it what you will—prodigious, colossal, mega, and at 115.7 pounds (52.5 kg), “behemoth” is likely to come into the conversation—we’ve simply dubbed it the RDA-7.1. If you’ve found yourself at a loss for more words, let us finish the description for you. Integra Research has teamed up with Balanced Audio Technology to go beyond the definition of what a power amplifier should and can do. A low negative feedback design yields optimal signal-to-noise performance and dynamic contrasts superior to what is commonly found on the market. Balanced XLR inputs give you authoritative frequency response, dynamic range and stability for cable runs longer than the competition dare think about. 150 watts x 7 into 8 ohms, with all channels driven, can effortlessly handle virtually any speaker load or listening level, and, possibly to the neighbors’ chagrin, fill any room in your house with earth-shattering audio. The finest audiophile-grade parts are augmented by the ultimate mark of quality in the home theater environment—THX Ultra2 certification. So press the button. Provide the power to drive the most demanding of speaker loads. Understand that “awesome” doesn’t begin to describe the sensation you’re set to experience.

- THX™ Ultra2 Certification
- THX™ Surround EX™ Capable
- Over 1000 Watts of Total Power (150 W x 7 Channels at 8 Ohms, FTC, All Channels Driven)
- Low Negative Feedback Design for Optimum Signal-to-Noise Performance and Superior Dynamic Contrasts
- Balanced XLR Inputs for Better Frequency Response, Dynamic Range and Stability on Long Cable Runs
- 12V Trigger Input/Output
- Symmetrical Bipolar Technology to Eliminate Corruption of System Ground by Output Currents, and to Optimize Preamplifier Performance

- Higher-Current Driver Stage for the Finest Loudspeaker Performance
- 3 Gain Stages to Minimize Signal Correlation and Improve the Amplifier’s Sonic Neutrality
- Wide-Range Design with Thick Copper Bus Bar
- 600 Joules of Energy Storage to Provide Virtually Unlimited, Extremely Clean Power to Even the Most Demanding Loudspeaker Loads and Configurations
- Gold-Plated, High-Quality Transparent Speaker Terminals Compatible with Banana Plugs
- Rigid Aluminum Front Panel and Brass Stabilizers



(North American model)

SPECIFICATIONS

RDA-7.1 Power Amplifier

AMPLIFIER SECTION

Power Output	
Front L/R (8 Ω, 20 Hz-20 kHz, FTC) (4 Ω, 1 kHz, FTC)	150 W+150 W (0.1% THD) 300 W/ch (0.1% THD)
Center (8 Ω, 20 Hz-20 kHz, FTC) (4 Ω, 1 kHz, FTC)	150 W (0.1% THD) 300 W (0.1% THD)
Surround L/R (8 Ω, 20 Hz-20 kHz, FTC) (4 Ω, 1 kHz, FTC)	150 W+150 W (0.1% THD) 300 W/ch (0.1% THD)
Surround Back L/R (8 Ω, 20 Hz-20 kHz, FTC) (4 Ω, 1 kHz, FTC)	150 W+150 W (0.1% THD) 300 W/ch (0.1% THD)
THD (at Rated Power)	0.03% (all channels)
Damping Factor (1 kHz, 8 Ω)	40
Input Impedance	47 kΩ
Input Signal for Max Output Power	1.2 V
Input Sensitivity (Unbalanced) (Balanced)	100 mV (RMS) 200 mV
Frequency Response	3.5 Hz-250 kHz (+0 dB, -3 dB)

GENERAL

Dimensions (W x H x D)	450 x 197 x 602 mm
Weight	52.5 kg



RDA-7.1
Power Amplifier

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