

DTR-70.1

9.2-CHANNEL HOME NETWORK RECEIVER



ADVANCED FEATURES

- THX® Ultra2 Plus™ Certified
- DTS-HD Master Audio™, DTS-HD High Resolution Audio™, Dolby® TrueHD, Dolby® Digital Plus Decoding
- HDMI™ Version 1.3a to Support Deep Color™, x.v.Color™, Lip Sync, Dolby TrueHD, DTS-HD Master Audio, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- DSD Direct for Super Audio CD
- Audio and 1080p Video Processing via HDMI (1 Front/6 Rear Inputs and 2 Outputs [Main/Sub])
- HDMI Video Upscaling to 1080p with HQV Reon-VX
- New Custom-Designed, Large-Size Transistors to Drive High Currents
- Push-Pull Amplification Design with Three-Stage Inverted Darlington Circuitry
- Independent Block Construction (Amp /Preamp)
- Burr-Brown 192 kHz/24-Bit DACs (PCM1796 x 6) for All Channels
- Ultra-Low-Jitter PLL (Phase Locked Loop) Circuitry to Improve Audio Quality
- Three TI (Aureus™) 32-Bit DSP Chips (DA830 x 1, DA788 x 2) for Advanced Processing
- VLSC™ (Vector Linear Shaping Circuitry) for All Channels
- ISF (Imaging Science Foundation) Video Calibration Controls per Input and Output (30-color with Custom, Day, and Night Memory)
- Audyssey DSX™ and Dolby® Pro Logic® IIz for New Surround Channels
- Audyssey MultEQ™ XT* to Correct Room Acoustic Problems and to Calibrate Speakers
- Audyssey Dynamic Volume™ to Maintain Optimal Listening Level and Dynamic Range
- Audyssey Dynamic EQ™ for Loudness Correction
- Dolby® Volume for Reference-Quality Listening Experience at Any Volume
- Network Capability for Streaming Audio Files (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio Connectivity (vTuner)
- Compatible with Windows 7 and DLNA Version 1.5
- Bi-Amping and BTL (Bridged Transless) Capability
- Powered Zone2, Zone3 and Zone 4 for Playback of Separate Sources in Other Rooms
- Zone 2 Monitor Output (Component and Composite) and Zone 2/3 Pre Outs (Front L/R and Subwoofer)
- Universal Port for Single-Cable Connection of Optional Onkyo Dock for the iPod
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG (Role Playing Game)
- 2 Independent Subwoofer Pre Outs
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control with Backlight, Onscreen Setup, Mode-Key LEDs, and Macro Presets for Four Activities

* Including Installation with MultEQ Pro Software

OTHER FEATURES

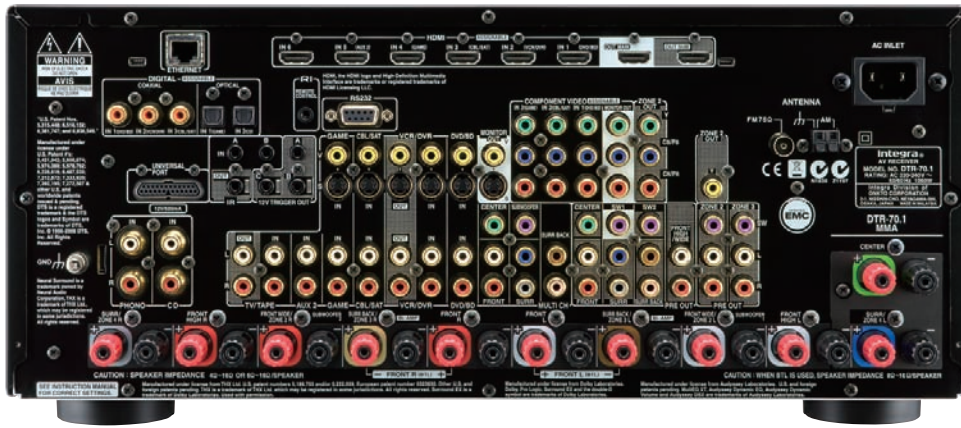
- 140 W/Ch at 8 Ω, 20 HZ- 20 kHz, 2 Channel Driven, FTC
- 250 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, JEITA
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- WRAT (Wide Range Amplifier Technology)
- Linear Optimum Gain Volume Circuitry

- Neural-THX® Surround Decoder
- Music Optimizer™ to Enhance Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- Direct Mode
- Front-Side Auxiliary A/V Input (for Camcorders, Game Consoles, etc.)
- USB Port for an MP3 Audio Device (Audio Only)
- Component Video Upscaling (Up to 1080i)
- Component Video Switching (3 Inputs and 1 Output)
- Color-Coded, 9 Multichannel Pre Outs
- 6 Digital Inputs (3 Optical and 3 Coaxial)
- Independent Crossover Adjustment for F/C/S/SB/FH/FW (40/45/50/55/60/70/80/90/100/110/120/130/150/200 Hz)
- A/V Sync Control Function (Up to 250 ms in 2 ms Steps)
- 40 FM/AM Random Presets
- High-Rigidity Flat Chassis (1.6 mm Thick)
- 4 S-Video Inputs and 1 Output
- 5 A/V Inputs and 1 Output
- Monitor Outputs (Component, Composite, and S-Video)
- 3 Audio Inputs and 1 Output
- Phono Input
- Gold-Plated, Machined Solid Brass, 19 mm-Pitch Audio Inputs (CD and Phono)
- Color-Coded 7.1-Multichannel Inputs
- Onscreen Display (OSD) via All Video Outputs
- Aluminum Front Panel and Volume Knob
- Compatible with RI (Remote Interactive) Dock for the iPod

CUSTOM INTEGRATION FEATURES

- Bi-Directional Ethernet and RS232 for Control
- Independent Zone 2 and Zone 3 Bass / Treble / Balance Controls
- Max & Power On Volume Settings for Main Zone & Zone 2 / Zone 3 / Zone 4
- Dealer Settings Memory Store & Recall with Lock / Unlock
- Permanently Stored Settings
- 2 IR Inputs and 1 Output
- 3 Programmable 12 V Triggers (with Adjustable Delay)
- Firmware Updates via Ethernet and USB
- RIHD (Remote Interactive over HDMI) for System Control* (Compatible with Panasonic Viera Link™ and Toshiba REGZA Link™, as well as Selected Sharp Displays)

* Compatibility depends on respective model



SPECIFICATIONS

AMPLIFIER SECTION

| | |
|----------------------------------|--|
| Power Output | |
| All Channels: | 250 W/Ch at 6 Ω, 1 kHz, 1 channel driven, JEITA 140 W/Ch at 8 Ω, 20 Hz- 20 kHz, 2 Channels Driven, FTC |
| Dynamic Power: | 320 W (3 Ω, Front) 270 W (4 Ω, Front) 160 W (8 Ω, Front) |
| THD (Total Harmonic Distortion): | 0.05% (Rated power) |
| Damping Factor: | 60 (Front, 1 kHz, 8 Ω) |
| Input Sensitivity and Impedance: | 200 mV/47 kΩ(Line) 2.5 mV/47 kΩ, (Phono MM) |
| Output Level and Impedance: | 200 mV/470 Ω (Rec out) |
| Phono Overload: | 70 mV (MM, 1 kHz, 0.5%) |
| Frequency Response: | 5 Hz-100 kHz/+1 dB, -3 dB |
| Tone Control: | ±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble) |
| Signal-to-Noise Ratio | 110 dB (Line, IHF-A) |
| Speaker Impedance | 4 Ω-16 Ω or 6 Ω-16 Ω |

VIDEO SECTION

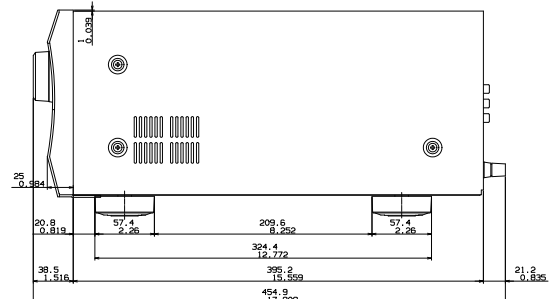
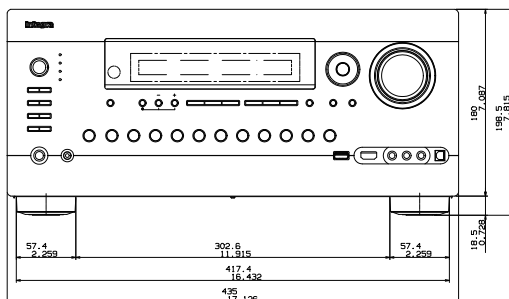
| | |
|---|--|
| Input Sensitivity/Output Level and Impedance: | 1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 0.28 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (Composite) |
| Component Video Frequency Response: | 5 Hz-100 MHz, -3 dB |

TUNER SECTION

| | |
|-------------------------|---|
| Tuning Frequency Range: | FM 87.5 MHz-108.0 MHz AM 522 kHz-1,611 kHz |
| FM/AM Preset Memory: | 40 stations |

GENERAL

| | |
|-------------------------|-------------------------|
| Power Supply: | AC 220-240 V~, 50/60 Hz |
| Power Consumption: | 1,060 W |
| Dimensions (W x H x D): | 435 x 198.5 x 455 mm |
| Weight: | 23.0 kg |



Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. THX Ultra2 Plus and THX Loudness Plus are trademarks of THX Ltd. THX may be registered in some jurisdictions. Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories. DTS is a registered trademark and the DTS logos and Symbol are trademarks of DTS, Inc. HQV is a registered trademark of Silicon Optix. iPod is a registered trademark of Apple Inc., registered in the U.S. and other countries. Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. DSX, MultEQ XT, Dynamic EQ, and Dynamic Volume are trademarks of Audyssey Laboratories. HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. The Neural Surround name and related logos are trademarks owned by Neural Audio Corporation. Windows 7 and the Windows logo are trademarks of the Microsoft group of companies. Aureus is a trademark of Texas Instruments. x.v.Color is a trademark of Sony Corporation. VLSC, WRAT, Music Optimizer, and Theater-Dimensional are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.