

Integra®

DTR-50.2

7.2-CHANNEL NETWORK A/V RECEIVER



Highly customizable, network-ready, and packed with the latest features—the DTR-50.2 is one powerful all-purpose entertainment hub. Now you can experience your movies, music, and games the way their creators intended.

ADVANCED FEATURES

- THX® Select 2 Plus™ Certified
- HDMI® (Version 1.4a to Support 3D and Audio Return Channel) with Deep Color™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- 7 HDMI Inputs (1 Front/6 Rear)
- Dual HDMI Outputs (Simultaneously Active Capable)
- Front-Panel USB Input for Memory Devices and iPhone®/iPod® Models (Enables Display of Album Artwork)
- Network Capability for Streaming Audio Files (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio Connectivity* (Pandora®, Rhapsody®, SIRIUS Internet Radio®, Napster, Mediafly™, Slacker, and vTuner)
- Certified with Windows® 7 and DLNA Version 1.5
- Firmware Updates via Ethernet and USB
- ISF (Imaging Science Foundation) Video Calibration Controls for Optimal Video Performance
- HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema™
- Component Video Upscaling to 1080i with Faroudja DCDi Cinema™
- Burr-Brown 192 kHz/24-Bit DACs (PCM1690) for All Channels
- Three-Stage Inverted Darlington Circuitry (Certified 4-ohms Performance)
- PLL Jitter-Cleaning Circuit Technology
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio™ Decoding
- Audyssey DSX™ and Dolby® Pro Logic® IIz for New Surround Channels
- Audyssey MultEQ® for Room Acoustic Correction
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Overlaid Graphical On-Screen Display (OSD) via All Video Outputs
- 4 DSP Modes for Gaming: Rock, Sports, Action, and Role Playing Game (RPG)
- Analog RGB Video Input (D-sub, 15 pin) and Audio Input for PC
- Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPhone®/iPod® or HD Radio™ Tuner

*Availability of services depends on region.

OTHER FEATURES

- 135 Watts per Channel at 8 Ohms, 20 Hz–20 kHz, 0.08%, 2 Channels Driven, FTC
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Two 32-Bit Processing DSP Chips (DA830 and CS49834)
- 6 Digital Inputs (3 Optical and 3 Coaxial)
- Front-Panel Auxiliary A/V Input (for Camcorders, Game Consoles, etc.)
- Linear Optimum Gain Volume Circuitry
- Bi-Amping Capability
- WRAT (Wide Range Amplifier Technology)

- Music Optimizer™ for Compressed Digital Music Files
- A-Form Listening Mode Memory
- Direct Mode
- Independent Crossover Adjustment for F/C/S/SB (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)
- Color-Coded, Banana Plug-Compatible Speaker Posts
- SIRIUS Satellite Radio® Ready* and HD Radio Ready
- 40 FM/AM/SIRIUS Random Presets
- Compatible with RI (Remote Interactive) Dock for iPod
- Bi-Directional, Preprogrammed, and Customizable RI Remote Control with On-Screen Setup, Mode-Key LEDs, and Macro Presets for Four Activities
- 5 A/V Inputs (1 Front/4 Rear) and 1 Output
- Color-Coded, 7.1 Multichannel Inputs
- 1 Audio Input
- Phono Input
- Color-Coded, 7.2 Multichannel Pre Outs
- Display Dimmer (Normal / Dim / Dimmer)
- Aluminum Front Panel and Sand-Finished Aluminum Volume Knob

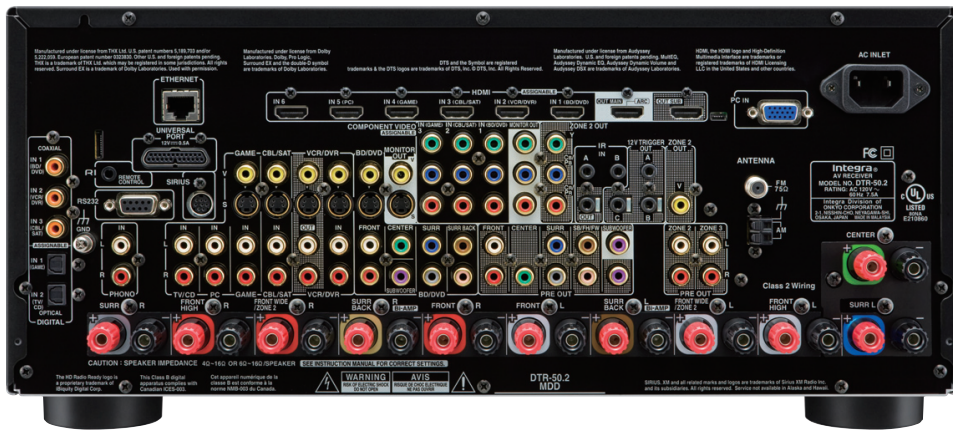
* SIRIUS requires separate purchase of subscription, compatible tuner, and antenna.

CUSTOM INTEGRATION FEATURES

- Bi-Directional Ethernet and RS232 Port for Control
- Powered Zone 2 and Zone 2/3 Pre-Outs for Distributed Audio Playback in Multiple Rooms
- Independent Zone 2 Bass / Treble / Balance Controls
- HDTV-Capable (720p/1080i) Component Video Switching (3 Inputs and 1 Output) for Zone 2
- Max & Power On Volume Settings for Main Zone & Zone 2 / Zone 3
- Dealer Settings Memory Store & Recall with Lock / Unlock
- Permanently Stored Settings
- 2 IR Inputs and 1 Output
- 3 Programmable 12V Triggers (with Adjustable Delay)
- Optional Rack Mount Kit Available (IRK-180-4)
- RIHD (Remote Interactive over HDMI) for System Control *

*Compatibility depends on respective model.

Inspired By Passion-Driven By Excellence



HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

THX
SELECT 2 PLUS

dts-HD
Master Audio

DOLBY
TRUEHD
PRO LOGIC IIz

AUDYSSEY
MULTI EQ
DYNAMIC VOLUME

DSX
AUDYSSEY

isf
ccc

FARUDJA
DCDI CINEMA

WRAT
WIDE RANGE AMP TECHNOLOGY

192 kHz/24 bit

POWERED ZONE2

ZONE3

Made for
iPod iPhone

dlna
CERTIFIED

Compatible with
Windows7

vTuner

SIRIUS
READY

SIRIUS
INTERNET RADIO

Rhapsody

PANDORA
internet radio

napster

Mediafly

SLACKER

HD Radio
READY

USB

7.1
CH INPUT

RIHD

Theater-Dimensional

RI

SPECIFICATIONS

AMPLIFIER SECTION

Power Output

All Channels: 135 W/Ch at 8 ohms, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC
145 W/Ch at 8 ohms, 1 kHz, 0.7%, 2 channels driven, FTC
160 W/Ch at 6 ohms, 1 kHz, 0.1%, 2 channels driven, FTC

Dynamic Power:

300 W (3 ohms, Front)
250 W (4 ohms, Front)
150 W (8 ohms, Front)

THD (Total Harmonic Distortion): 0.08% (Rated power)

Damping Factor: 60 (Front, 1 kHz, 8 ohms)

Input Sensitivity and Impedance

(Unbalance): 200 mV/47 k-ohms (Line)
2.5 mV/47 k-ohms (PHONO MM)

Rated RCA Output Level and Impedance:

200 mV/470 ohms (Pre out)

Maximum RCA Output Level and Impedance:

4.6 V/470 ohms (Pre out)

Phono Overload:

70mV (MM 1kHz 0.5%)

Frequency Response:

5 Hz–100 kHz/+1 dB, -3 dB (Direct mode)

Tone Control :

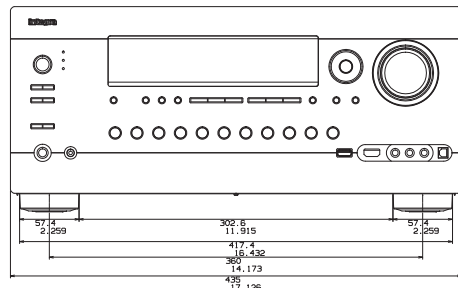
±10 dB, 50 Hz (Bass)
±10 dB, 20 kHz (Treble)

Signal-to-Noise Ratio:

110 dB (Line, IHF-A)
80 dB (PHONO, IHF-A)

Speaker Impedance:

4 ohms–16 ohms or 6 ohms–16 ohms



VIDEO SECTION

Input Sensitivity/Output

Level and Impedance

Video:

1.0 Vp-p/75 ohms (Component and S-Video Y)
0.7 Vp-p/75 ohms (Component Pb/Cb, Pr/Cr)
0.25 Vp-p/75 ohms (S-Video C)
1.0 Vp-p/75 ohms (Composite)

Component Video

Frequency Response: 5 Hz–100 MHz/0 dB, -3 dB

TUNER SECTION

Tuning Frequency Range:

FM 87.5 MHz–107.9 MHz
AM 530 kHz–1,710 kHz

FM/AM/SIRIUS Preset Memory: 40 stations

GENERAL

Power Supply:

AC 120 V~, 60 Hz

Power Consumption:

7.5 A

Dimensions (W x H x D):

17 1/8" x 7 13/16" x 16 13/16"
(435 x 198.5 x 427.5 mm)

Weight:

39.5 lbs. (17.9 kg)

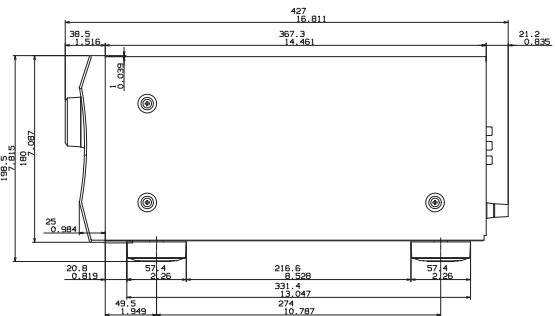
CARTON

Dimensions (W x H x D):

23 1/8" x 13 1/4" x 21 3/4"
(587 x 337 x 553 mm)

Weight:

48.5 lbs. (22.0 kg)



Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice.

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