



General Specifications

Amplifier (Audio) section

Rated Output Power (FTC) (North American)

With 8 ohm loads, both channels driven, from 20-20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.08% total harmonic distortion from 250 milliwatts to rated output.

Rated Output Power (IEC) (Others)

2 ch × 160 W at 6 ohms, 1 kHz, 1 ch driven of 1% THD

Maximum Effective Output Power (JEITA) (North American)

2 ch × 170 W at 6 ohms, 1 kHz, 2 ch driven of 10% THD

Dynamic Power (*)

(*) IEC60268-Short-term maximum output power

240 W (3 Ω, Front)

210 W (4 Ω, Front)

120 W (8 Ω, Front)

THD+N (Total Harmonic Distortion+Noise)

0.08% (20 Hz - 20,000 Hz, half power)

Input Sensitivity and Impedance (1 kHz, 100 W/8 Ω)

200 mV/47 kΩ (LINE (Unbalance))

3.5 mV/47 kΩ (PHONO MM)

Rated RCA Output Level and Impedance

1 V/470 Ω (SUBWOOFER PRE OUT)

200 mV/2.3 kΩ (ZONE LINE OUT)

Phono Overload

70 mV (MM 1 kHz, 0.5%)

Frequency Response

10 Hz - 100 kHz/+1 dB, -3 dB (Direct/Pure Audio)

Tone Control Characteristics

±10 dB, 90 Hz (BASS)

±10 dB, 7.5 kHz (TREBLE)

Signal to Noise Ratio

106 dB (IHF-A, LINE IN, SP OUT)

80 dB (IHF-A, PHONO IN, SP OUT)

Speaker Impedance

4 Ω - 16 Ω

Headphone Output Impedance

330 Ω

Headphone Rated Output

80 mW (32 Ω, 1 kHz, 10% THD)

Tuner Section

FM Tuning Frequency Range

87.5 MHz - 107.9 MHz (North American)

87.5 MHz - 108.0 MHz, RDS (Others)

AM Tuning Frequency Range (North American)

530 kHz - 1710 kHz

DAB Tuning Frequency Range (Others)

174.928 MHz - 239.200 MHz

Preset Channel

40

Network Section

Ethernet LAN

10BASE-T/100BASE-TX

Wireless LAN

IEEE 802.11 a/b/g/n standard

(Wi-Fi® standard)

5 GHz/2.4 GHz band

BLUETOOTH Section

Communication system

BLUETOOTH Specification version 4.1+LE

Frequency band

2.4 GHz band

Modulation method

FHSS (Frequency Hopping Spread Spectrum)

Compatible BLUETOOTH profiles

A2DP 1.2

AVRCP 1.3

HOGP-Host (Client)

HOGP-HID Device (Server)

HID Service (HIDS)

Supported Codecs

SBC

AAC

Transmission range (A2DP)

20 Hz - 20 kHz (Sampling frequency 44.1 kHz)

Maximum communication range

Line of sight approx. 48 ft. (15 m) (*)

(*) The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone, reception sensitivity, antenna's performance, operating system, software application, etc.

General

Power Supply

AC 120 V, 60 Hz (North American)

AC 230 V, 50 Hz (Others)

Power Consumption

260 W

0.1 W (Stand-by, North American)

0.15 W (Stand-by, Others)

35 W (No-sound)

4.2 W (HDMI Standby Through, North American)

4.5 W (HDMI Standby Through, Others)

2.6 W (Network Standby, North American)

2.8 W (Network Standby, Others)

Dimensions (W × H × D)

17-1/8" × 5-7/8" × 12-15/16"

435 mm × 149.5 mm × 329 mm

Weight

18.1 lbs/8.2 kg (North American)

8.7 kg/19.2 lbs (Others)

HDMI

Input

IN1 (BD/DVD), IN2 (CBL/SAT), IN3 (PC), IN4 (GAME)

Output

OUT

Supported

Deep Color, x.v.Color™, LipSync, Audio Return Channel, 3D, 4K 60Hz, CEC, Extended Colorimetry (sYCC601, Adobe RGB, Adobe YCC601), Content Type, HDR

Audio Format

DSD, PCM

Maximum Video Resolution

4k 60 Hz (YCbCr 4:4:4)



Compatible input resolutions

HDMI input

4K, 1080p/24, 1080p, 1080i, 720p, 480p/576p

Composite input

480i/576i

- The output from the HDMI OUT jack to the TV is the same resolution as the input.

- When "HDMI Standby Through" is set to other than "Off"
- When "Bluetooth Wakeup" is set to "On"
- When "USB Power Out at Standby" is set to "On"

Audio Inputs

Digital

OPTICAL IN1 (GAME), IN2 (TV/TAPE)

COAXIAL IN (CD)

Analog

IN1 (PC), IN2 (TV/TAPE), IN3 (CD), PHONO

Audio Outputs

Analog

ZONE2 LINE OUT

2 SUBWOOFER PRE OUT

Speaker Outputs

SPEAKERS A: FRONT L/R

SPEAKERS B: FRONT L/R

(North American models are banana plug ready)

Phones

PHONES (Front, Ø1/4"/6.3 mm)

Others

USB: 2 (Front: Ver.2.0, 5 V/1 A, Rear: Ver.2.0, 5 V/
500 mA)

Ethernet: 1

RI REMOTE CONTROL: 1

IR IN: 1

IR OUT: 1

Power consumption in standby mode

- In the following cases, the power consumption in standby mode may reach up to a maximum of 15 W:
 - When "Network Standby" is set to "On"
 - When "HDMI CEC" is set to "On"