

# Specifications

## Network

- Input jack: NETWORK x 1 (100Base-TX/10Base-T)
- PC client function
- Compatible with DLNA ver. 1.5
- AirPlay supported
- Internet radio
- Streaming service
- Wi-Fi function
  - Capable of WPS
  - Capable of sharing with iOS devices by wireless connection
  - Capable of direct connection with mobile device
  - Available security method: WEP, WPA2-PSK (AES), Mixed Mode
  - Radio frequency band: 2.4 GHz
  - Wireless network standard: IEEE 802.11 b/g/n

## Bluetooth

- Source function
  - This unit to sink device (ex. *Bluetooth* headphone)
- Supported codec .....SBC
- Sink function
  - Source device to this unit (ex. smartphone/tablet)
- Supported codec ..... SBC, AAC
- Capable of play/stop operation from sink device
- *Bluetooth* version .....Ver. 2.1+EDR
- Supported profile.....A2DP, AVRCP
- Wireless output.....*Bluetooth* Class 2
- Maximum communication distance .....10 m (33 ft) without interference

## USB

- Input jack: USB x 1 (USB2.0)
- Current supply capacity: 1.0 A

## Audio

- Minimum RMS output power (40 Hz to 20 kHz, 0.2% THD, 8 Ω)
  - [North America, General, China, Korea, Australia, U.K., Europe and Brazil models] ..... 100 W + 100 W
  - [Asia model] ..... 85 W + 85 W
- Dynamic power per channel (IHF) (8/6/4/2 Ω) ..... 125/150/165/180 W
- Maximum power per channel (1 kHz, 0.7% THD, 4 Ω) [U.K. and Europe models] ..... 115 W
- IEC power (1 kHz, 0.2% THD, 8 Ω) [U.K. and Europe models] ..... 110 W
- Damping factor (SPEAKERS A) 1 kHz, 8 Ω ..... 120 or more
- Maximum effective output power (1 kHz, 10% THD, 8 Ω)
  - [General model] ..... 140 W
  - [Asia model] ..... 125 W
- Input sensitivity/input impedance
  - CD, etc. .... 500 mV/47 kΩ
- Maximum input signal
  - CD, etc. (1 kHz, 0.5% THD).....2.2 V or more
- Output level/output impedance
  - CD, etc. (input 1 kHz, 500 mV)
    - LINE OUT ..... 500 mV/2.2 kΩ
    - PHONES (8 Ω load)..... 470 mV/470 Ω
- Frequency response
  - CD, etc. (20 Hz to 20 kHz) ..... 0 ± 0.5 dB
  - CD, etc. (10 Hz to 100 kHz) ..... 0 ± 3.0 dB
- Total harmonic distortion
  - CD, etc. to SPEAKERS OUT (20 Hz to 20 kHz, 50 W, 8 Ω) .....0.2% or less
- Signal to noise ratio (IHF-A)
  - CD, etc. (input shorted, 500 mV)..... 100 dB or more
- Residual noise (IHF-A) ..... 70 μV

- Channel separation
  - CD, etc. (5.1 kΩ input shorted, 1/10 kHz) ..... 65/50 dB or more
- Tone control characteristics
  - BASS
    - Boost/cut (50 Hz) ..... ± 10 dB
  - TREBLE
    - Boost/cut (20 kHz) ..... ± 10 dB
- Digital input (OPTICAL/COAXIAL)
  - Support audio sample rate ..... 32/44.1/48/88.2/96/176.4/192 kHz

## FM

- Tuning range
  - [North America model] ..... 87.5 to 107.9 MHz
  - [General, Asia and Brazil models] ..... 87.5 to 107.9 MHz/87.50 to 108.00 MHz
  - [China, Korea, Australia, U.K. and Europe models] ..... 87.50 to 108.00 MHz
- 50 dB quieting sensitivity (IHF-A, 1 kHz, 100% MOD.)
  - Mono ..... 3 μV (20.8 dBf)
- Signal to noise ratio (IHF-A)
  - Mono/stereo ..... 71 dB/70 dB
- Harmonic distortion (1 kHz)
  - Mono/stereo ..... 0.4%/0.4%
- Antenna input ..... 75 Ω unbalanced

## AM

- Tuning range
  - [North America model] ..... 530 to 1710 kHz
  - [General, Asia and Brazil models] ..... 530 to 1710 kHz/531 to 1611 kHz
  - [China, Korea, Australia, U.K. and Europe models] ..... 531 to 1611 kHz

## General

- Power supply
  - [North America model] ..... AC 120 V, 60 Hz
  - [General and Brazil models] .... AC 110-120/220-240 V, 50/60 Hz
  - [China model] ..... AC 220 V, 50 Hz
  - [Korea model] ..... AC 220 V, 60 Hz
  - [Australia model] ..... AC 240 V, 50 Hz
  - [U.K. and Europe models] ..... AC 230 V, 50 Hz
  - [Asia model] ..... AC 220-240 V, 50/60 Hz
- Power consumption
  - [North America, General, China, Korea, Australia, U.K., Europe and Brazil models] ..... 200 W
  - [Asia model] ..... 165 W
- Standby power consumption ..... 0.1 W
- Network Standby on
  - Wired ..... 1.7 W
  - Wireless (Wi-Fi/Wireless Direct/*Bluetooth*)... 1.8 W/1.8 W/1.8 W
- Dimensions (W × H × D) ..... 435 × 141 × 340 mm (17-1/8" × 5-1/2" × 13-3/8")
- Reference Dimensions (W × H × D) (with wireless antenna upright) ..... 435 × 200 × 340 mm (17-1/8" × 7-7/8" × 13-3/8")
  - \* Including legs and protrusions
- Weight ..... 7.3 kg (16.1 lbs)

\* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.