

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 direct connection with mobile device
 - Available security method
 - WEP, WPA2-PSK(AES), Mixed Mode
 - Radio frequency band 2.4 GHz
 - Radio frequency (operational frequency)
 - 2412 MHz to 2472 MHz
 - Maximum output power (E.I.R.P) 17.5 dBm (56.2 mW)
 - Wireless network standard IEEE 802.11 b/g/n
 - Wi-Fi settings
 - WPS (Wi-Fi Protected Setup) Capable of WPS
 - Capable of sharing with iOS devices by wireless connection.

Bluetooth related function

- Version Bluetooth 2.1 + EDR
- Frequency 2.4 GHz
- Radio frequency (operational frequency)
 - 2402 MHz to 2480 MHz
- Maximum output power (E.I.R.P) 4.0 dBm (2.5 mW)
- Wireless output Bluetooth Class 2
- Profiles
 - Source function
 - The unit → sink device (ex. Bluetooth headphones)
 - Profile: A2DP version 1.3, AVRCP version 1.6
 - CODEC: SBC
 - Sink function
 - The unit ← source device (ex. iPhone/Android)
 - Profile: A2DP version 1.3, AVRCP version 1.6
 - CODEC: SBC, AAC

USB

- Input jack: USB x 1 (USB 2.0)
- Capable of mass storage class USB memory
- Current supply capacity: 1.0 A

Audio

- Minimum RMS output power
 - (20 Hz to 20 kHz, 0.019% THD, 8Ω) 100 W+100 W
- Dynamic power per channel (IHF) (8/6/4/2Ω)
 - 140/170/220/290 W
- Maximum power per channel (1 kHz, 0.7% THD, 4Ω)
 - [U.K. and Europe models] 160 W
- IEC power (1 kHz, 0.04% THD, 8Ω)
 - [U.K. and Europe models] 115 W
- Power band width (main L/R)
 - (0.06%THD 40.0 W, 8Ω) 10 Hz to 50 kHz
- Damping factor (SPEAKERS A)
 - 1 kHz, 8Ω 240 or more
- Maximum effective output power (JEITA)
 - (1 kHz, 10% THD, 8Ω)
 - [Asia and General models] 145 W
- Input sensitivity/input impedance
 - PHONO (MM) 2.5 mV/47 kΩ
 - CD, etc. 200 mV/47 kΩ
- Maximum input signal
 - PHONO (MM) (1 kHz, 0.03% THD) 45 mV
 - CD, etc. (1 kHz, 0.5% THD) 2.2 V
- Output level/output impedance
 - CD, etc. (input 1 kHz, 200 mV)
 - OUT 200 mV/1.0 kΩ
 - SUBWOOFER OUT 4.0 V/1.2 kΩ

- (Cut off frequency) 90 Hz
- PHONES (8Ω load) 470 mV/470Ω
- Frequency response
 - CD, etc. (20 Hz to 20 kHz) 0 ± 0.5 dB
 - CD, etc. (10 Hz to 100 kHz, PURE DIRECT on) 0 ± 1.0 dB
- RIAA equalization deviation
 - PHONO (MM) ± 0.5 dB
- Total harmonic distortion
 - PHONO (MM) to OUT
 - (20 Hz to 20 kHz, 2.5 V) 0.03% or less
 - CD, etc. to SPEAKERS
 - (20 Hz to 20 kHz, 50.0 W, 8Ω) 0.019% or less
- Signal to noise ratio (IHF-A Network)
 - PHONO (MM) (input shorted, 5 mV)
 - [U.S.A., Canada, Asia, General models] 82 dB or more
 - [U.K., Europe, Korea, Australia models] 75 dB or more
 - CD, etc. (input shorted, 200 mV) 100 dB or more
- Residual noise (IHF-A network) 70 μV
- Channel separation
 - CD, etc. (5.1 kΩ input shorted, 1 kHz/10 kHz)
 - 65/50 dB or more
- Tone control characteristics
 - BASS
 - Boost/cut (20 Hz) ± 10 dB
 - Turnover frequency 300 Hz
 - TREBLE
 - Boost/cut (20 kHz) ± 10 dB
 - Turnover frequency 3.0 kHz
- Continuous loudness control
 - Attenuation 1 kHz -30 dB
- Gain tracking error (+16.5 to -80 dB) 0.5 dB or less
- Digital input (OPTICAL/COAXIAL)
 - Support audio sample rate 32/44.1/48/88.2/96/176.4/192 kHz

FM

- Tuning range
 - [U.S.A. and Canada models] 87.5 to 107.9 MHz
 - [Asia and General models] 87.5/87.50 to 108.0/108.00 MHz
 - [U.K., Europe, Korea, Australia models] 87.50 to 108.00 MHz
- 50 dB quieting sensitivity (IHF, 1 kHz, 100% MOD.)
 - Mono 3.0 μV (20.8 dBf)
- Signal to noise ratio (IHF)
 - Mono/stereo 69 dB/67 dB
- Harmonic distortion (1 kHz)
 - Mono/stereo 0.5%/0.6%
- Antenna input 75Ω unbalanced

AM (R-N803)

- Tuning range
 - [U.S.A. and Canada models] 530 to 1710 kHz
 - [Asia and General models] 530/531 to 1710/1611 kHz
 - [Korea model] 531 to 1611 kHz

DAB (R-N803D)

- Tuning range 174 to 240 MHz (Band III)
- Support audio format
 - MPEG 1 Layer II/MPEG 4 HE AAC v2 (AAC+)
- Antenna input 75Ω unbalanced

General

- Power supply
 - [U.S.A. and Canada models] AC 120 V, 60 Hz
 - [General model] AC 110-120/220-240 V, 50/60 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 250 W
- Off mode 0.1 W

- Standby power consumption (reference data) 0.1 W
- Network Standby on
 - Wired 1.7 W
 - Wireless (Wi-Fi/Wireless Direct/*Bluetooth*) 1.8 W
- Maximum power consumption (1 kHz, 8Ω, 10% THD)
 - [Asia and General models] 450 W
- Dimensions (W × H × D) 435 × 151 × 392 mm
(17-1/8" × 6" × 15-7/16")
 - * Including legs and protrusions
- Reference Dimensions (W × H × D) (with wireless antenna upright)
 - 435 × 215 × 392 mm
(17-1/8" × 8-1/2" × 15-7/16")
 - * Including legs and protrusions
- Weight 11.0 kg (24.25 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.