

# Main Specifications

## High Resolution Audio Recorder: R-07

### Recorder Part

#### Tracks

- 2 (stereo)
- 4 (stereo x2) \* WAVx2 recording mode only

#### Signal Processing

AD/DA conversion: 24 bits, 44.1/48/88.2/96 kHz

### Data Type

**[For Recording]** \* Stereo only

WAVE:

Sampling Rate	44.1/48/88.2/96 kHz
Bit Depth	16/24 bits

MP3 (MPEG-1 Audio Layer 3):

Sampling Rate	44.1/48 kHz
Bit Rates	64/96/128/160/192/224/320 kbps

WAV+MP3:

Sampling Rate	44.1/48 kHz
Bit Depth	16 bits
Bit Rates	128 kbps

WAVE x 2:

Sampling Rate	44.1/48 kHz
Bit Depth	16/24 bits

**[For Playback]**

WAVE:

Sampling Rate	32/44.1/48/88.2/96 kHz
Bit Depth	16/24 bits

MP3 (MPEG-1 Audio Layer 3):

Sampling Rate	32/44.1/48 kHz
Bit Rates	32–320 kbps or VBR (Variable Bit Rate)

### Memory Card

- microSD Card
- SDHC format compatible

Recordable time (approximate)

Units: minutes

Rec Mode		microSD card capacity				
		2 GB	4 GB	8 GB	16 GB	32 GB
WAV	WAV (24 bit/96 kHz)	55	110	220	450	900
	WAV (24 bit/88.2 kHz)	60	120	240	490	980
	WAV (24 bit/48 kHz)	110	220	440	900	1800
	WAV (24 bit/44.1 kHz)	120	240	480	980	1950
	WAV (16 bit/96 kHz)	80	160	320	670	1350
	WAV (16 bit/88.2 kHz)	88	176	352	735	1470
	WAV (16 bit/48 kHz)	166	332	664	1350	2700
	WAV (16 bit/44.1 kHz)	180	360	720	1470	2950
MP3	MP3 (320 kbps)	797	1540	3080	6450	12950
	MP3 (128 kbps)	1993	3990	7980	16180	32350
WAV+MP3	WAV (16 bit/48 kHz)+MP3 (128 kbps/48 kHz)	152	305	610	1240	2490
	WAV (16 bit/44.1 kHz)+MP3 (128 kbps/44.1 kHz)	165	330	660	1345	2690
WAVE x2 (2xWAV)	WAV (24 bit/48 kHz)	55	110	220	450	900
	WAV (24 bit/44.1 kHz)	60	120	240	490	975
	WAV (16 bit/48 kHz)	83	166	332	675	1350
	WAV (16 bit/44.1 kHz)	90	180	360	735	1475

\* Each recording time is approximate. The times may change depending on the card specifications.

\* In case that there are plural files, the sum of recording time would be shorter than above.

### Input/Output

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#### Audio Inputs

Internal Stereo Microphone

MIC/AUX IN jack (Stereo miniature phone type, plug-in powered mic)

\* The Internal Mic and the MIC/AUX IN can't be used at the same time; only the MIC/AUX IN jack is effective.

#### Audio Output

PHONES jacks (Stereo miniature phone type)

Internal Speaker for playback (mono)

\* The Internal Speaker and the PHONES jack can't be used at the same time; only the PHONES jack is effective.

#### Nominal Input Level (Variable)

MIC/AUX IN jack: -31 dBu (Default input level)

\* 0 dBu=0.775 Vrms

#### Input Impedance

MIC/AUX IN: 4.5 k ohms

#### Output Level

3 mW + 3 mW (In case 16 ohms load)

#### Recommended Load Impedance

16 ohms or greater

#### Frequency Response

20 Hz–40 kHz (+-3 dB)

#### USB Interface

USB port: USB Micro-B type

Support USB 2.0/1.1 mass storage device class

#### Bluetooth

R-07 Remote: Bluetooth technology: Bluetooth Ver 4.0

Audio transmission: Bluetooth technology: Bluetooth Ver 3.0

Transmitting Power: Specification Power Class 2 (Line of sight range 10 m (30 ft))

Profile Support: A2DP, AVRCP

CODEC Support: SBC, Qualcomm aptX Qualcomm aptX low latency

### Effects

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\* Playback only. Excludes playback in 88.2 kHz or 96 kHz.

\* Reverb and Speed Change can't be used at the same time.

#### Reverb

4 types (HALL1, HALL2, ROOM, PLATE)

#### Speed Change

50–150% of playback speed

### Other

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#### Display

Graphic LCD 128 x 64 dots (white backlit)

#### Power Supply

Alkaline battery (AA, LR6) x 2,

or Rechargeable Ni-MH battery (AA, HR6) x 2,

or Supplied from the computer via USB

#### Current Draw

350 mA (MAX)

#### Duration of continuous use with Alkaline battery operation

Playback: Approximately 15 hours

Recording: Approximately 15 hours

\* This can vary depending on the specifications of the batteries, capacity of the batteries, and the conditions of use.

#### Dimensions

61 (W) x 103 (D) x 26 (H) mm

2-7/16 (W) x 4-1/16 (D) x 1-1/16 (H) inches

#### Weight

150 g/6 oz (including batteries)

#### Accessories

Leaflet "Read Me First"

Owner's manual

microSD card (inserted in the R-07)

Batteries (two AA)

#### Options

Microphone Stand Adaptor: OP-MSA1

Binaural Microphones / Earphones: CS-10EM

Stereo Microphone: CS-15S

\* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.