

ROLAND R 88 RECORDER

RECORDER PART

Channels

8 channels + 2 channels (stereo mix from built-in mixer) (44.1, 48, 88.2 and 96 kHz), 4 channels (192kHz)

Signal Processing

AD Conversion: 24 bits, DA Conversion: 24 bits

Data Type

Format: BWF (mono/stereo), Sampling Frequency: 44.1/48/88.2/96/192 kHz, Bit Depth : 16/24 bits

Recording Media

SDHC Memory Card: 4 GB to 32 GB, SD Memory Card: 2 GB

MIXER PART

Mixing Channels

Input: 8 channels, Output: 2 channels (stereo)

Channel Strip

3-band equalizer, Fader, Panpot, Stereo channel link

Master

Fader, Limiter

AUDIO INPUT AND OUTPUT PART

IN 1-8 (Analog Inputs): XLR type (Phantom powered)

Nominal Input Level: Input Sens Knob: -62 (SENS +6dB parameter = ON), -56, -50, -44, -38, -32, -26, -20, -14, -8, -2, +4 dBu (Input Level Knob: 0), Input Level Knob: Minus infinity to +8 dB Maximum Input Level: +26 dBu
Input Impedance: Mic Input (Input Sens Knob: -62 to -20 dBu): 4 k ohms Line Input (Input Sens Knob: -14 to +4 dBu): 5.6 k ohms

OUT 1-2 (Analog Outputs): XLR type

Output Bus: Channel 1/2, 3/4, 5/6, 7/8 or Stereo mix from internal mixer, Output Level: +4 dBu/-60 dBu, Maximum Output Level: +24 dBu, Output Impedance: 600 ohms

OUT 3-8 (Analog Outputs): XLR type

Output Bus: Channel 1/2, 3/4, 5/6, 7/8 or Stereo mix from internal mixer,
Output Level: +4 dBu, Maximum Output Level: +24 dBu, Output Impedance:
600 ohms *When sampling rate is 192kHz, outputs 5-8 are inactive.

MIX OUT (Analog Outputs): Stereo miniature phone type

Output Bus: Stereo mix from internal mixer, Maximum Output Level: 2Vrms/
30dBu, Output Impedance: 1 k ohms

Digital Input/Output: XLR type (AES/EBU, conforms to IEC 60958-4)

Output Bus: Stereo mix from internal mixer

Headphones: Stereo 1/4 inch phone type

Headphones: Stereo 1/4 inch phone type, Output Level: 80mW (32 ohms),
Output Impedance: 10 ohms

Built-in Speaker

Stereo

Phantom Power

48 +/- 4 V, 10 mA per 1 channel (8 channels of phantom power available
simultaneously)

Residual Noise Level

OUT 1-8: -80dBu (Input Level Knob: Min), MIX OUT: -90dBu (Input Level
Knob: Min)

Total Harmonic Distortion + Noise

0.02 % or less (SENS Knob: +4 dBu, Input Level Knob: 0)

Frequency Response

20 Hz to 40 kHz (0 to -3 dB, Sampling Frequency: 96 kHz/192 kHz)

Input Effects

Limiter, Low cut, Stereo channel link

MS microphone decoder

For REC, for play and monitor

Slate Mic/Tone

Slate Mic: Built-in, Slate Mic: 1 kHz, -20 dBFS/Alarm Tone

Monitor

Pre Fader Listening (PFL), Real Time Analyzer (RTA)

OTHER TERMINALS

USB Interface

A Type Connector (For USB Memory) supports USB 2.0 and 1.1 Mass Storage Device Class.

B Type Connector (For Computer) supports USB 2.0 and 1.1 Mass Storage Device Class or USB Audio (Hi-Speed USB, 10 channels inputs and 8 channels outputs)

*When sampling rate is 192kHz, the USB audio interface is inactive.

SMPTE Timecode

BNC Connectors (Conforms to SMPTE 12M-1999)

Frame rates: 23.976, 24, 25, 29.97, 29.97D, 30, 30D

Modes: INT, RTC, REC-RUN, EXT SYNC, EXT (AUTO JAM), EXT SYNC REC, EXT REC

Clock Accuracy - Max Error Rate : 15ppm

CONTROL 1,2 jack

1/4-inch TRS phone type

OTHERS

Display

160 x 160 dots graphic display (touch screen)

Indicators

IN 1 to 8 Peak Indicators, Slate Mic Indicator, REC Indicator, Play Indicator

Power Supply

AC Adaptor (PSB-1U), Alkaline battery (AA, LR6) x 8, or Rechargeable Ni-MH battery (AA, HR6) x 8, External Power Supply: 4-pin XLR type (9 to 16 V)

Accessories

Owner's Manual, AC Adaptor (PSB-1U), AC Adaptor - 4pin XLR type connector conversion cable

Recording Time using 32GB SDHC memory card

1ch: 100 hours (16 bits/44.1 kHz), 16 hours (24 bits/192 kHz)

4ch: 25 hours (16 bits/44.1 kHz), 3.8 hours (24 bits/192 kHz)

8ch: 12 hours (16 bits/44.1 kHz), 3.8 hours (24 bits/96 kHz)

10ch: 10 hours (16 bits/44.1 kHz), 3 hours (24 bits/96 kHz)

* These recording times are approximate. Actual results may vary somewhat.

* If more than one recorded file exists, the total recordable time will be less.

SIZE AND WEIGHT

Width

260 mm
10-1/4 inches

Depth

235 mm
9-5/16 inches

Height

93 mm
3-11/16 inches

Weight

2.67 kg
5 lbs. 15 oz.

*Weight including batteries

* 0dBu=0.775Vrms