

All in One Recorder, Mixer and **Audio Interface - Anytime, Anywhere**





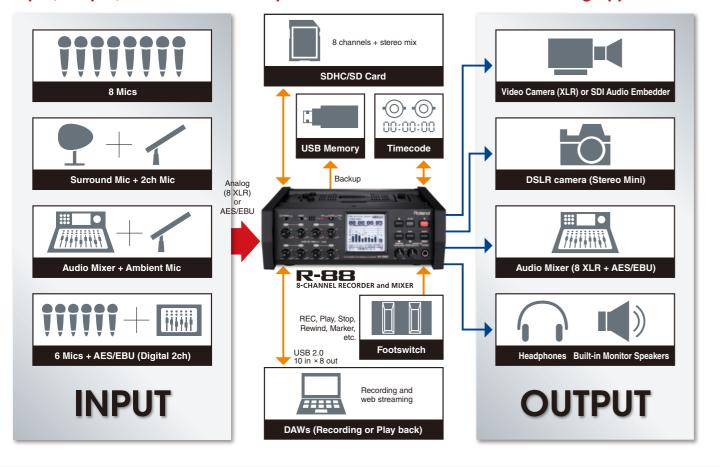








Input, Output, Mix and Interface Options to Cover a Multitude of Recording Applications





8 channels + stereo mix recording simultaneously





Built-in, powerful digital mixer allows simultaneous recording and mix-down





Specifications

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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: -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: -56 to -20 dBu): 4 k ohms Line Input (Input Sens Knob: -14 to +4 dBu): 5.6 k ohms						
OUT 1-2 (Analog	Output Bus: Channel 1/2, 3/4, 5/6, 7/8 or Stereo mix from internal mixer, Output Level:						
Outputs): XLR type	+4 dBu/-60 dBu, Maximum Output Level: +24 dBu, Output Impedance: 600 ohm						
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	Headphones: Stereo 1/4 inch phone type, Output Level: 80mW (32 ohms),						
inch phone type	Output Impedance: 10 ohms						
Built-in Speaker	Stereo						
Phantom Power	48 V + or - 4 V, 20 mA per 1 channel (100mA or less in all channels)						
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 connectors	BNC Connectors (Conforms SMPTE 12M-1999)					
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)					
Dimensions	260 (W) x 235 (D) x 93 (H) mm, 10-1/4 (W) x 9-1/4 (D) x 3-11/16 (H) inches					
Weight	2.67 kg, 5 lbs 15 oz (including batteries)					
Accessories	Owner's Manual, AC Adaptor (PSB-1U), AC Adaptor - 4pin XLR type connector conversion cable					
	* 0dBu 0.775\/rma					

* 0dBu=0.775Vrms

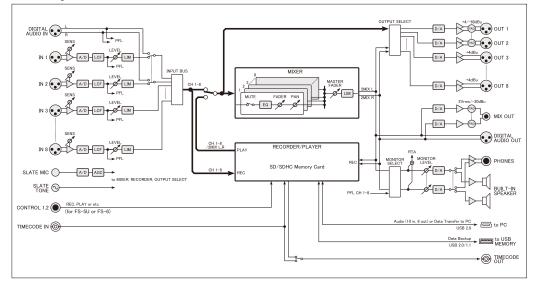
Recording Time using 32GB SDHC memory card

Recording Time using 32GB SDHC memory card								UNIT: hours			
	16 bits/ 44.1 kHz	24 bits/ 44.1 kHz	16 bits/ 48 kHz	24 bits/ 48 kHz	16 bits/ 88.2 kHz	24 bits/ 88.2 kHz	16 bits/ 96 kHz	24 bits/ 96 kHz	16 bits/ 192 kHz	24 bits/ 192 kHz	
1ch	100	67	92	61	50	33	46	30	23	15	
2ch	50	33	46	30	25	16	23	15	11	7.7	
4ch	25	16	23	15	12	8.4	11	7.7	5.7	3.8	
8ch	12	8.4	11	7.7	6.3	4.2	5.7	3.8	_	_	
10oh	10	6.7	0.2	6.1	- 5	2.2	4.6	3			

Options

- These recording times are approximate. Actual results may vary somewhat.
- * If more than one recorded file exists, the total recordable time will be less.

■Block Diagram





Systems Group

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Printed in Japan. Sep. 2012 RAM-20030 U-PD

