



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









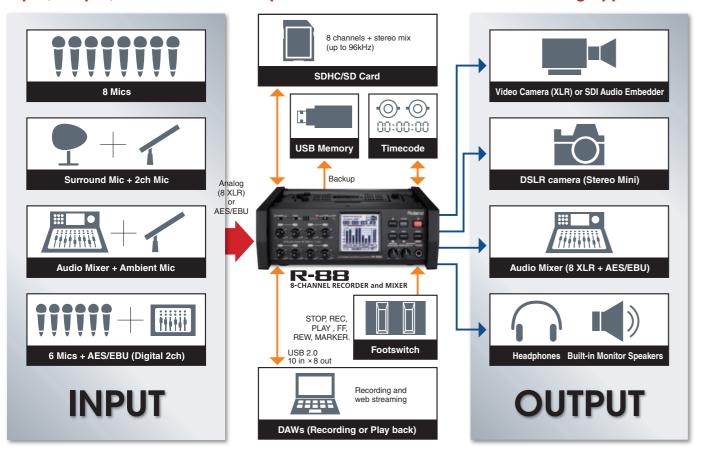


Seamless integration of recording, mixing and an audio interface - a new dimension in professional portable recording.



USB 2.0 ASIO

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





8 channels + stereo mix recording simultaneously (up to 96kHz)





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) (Sampling Freque 44.1, 48, 88.2 and 96 kHz), 4 channels (Sampling Frequency 192 kHz)					
Data Type	Format: BWF (mono, stereo), Sampling Frequency: 44.1, 48, 88.2, 96, 1 kHz, Bit Depth: 16, 24 bits, Meta Data: Origination Time, Frame Rate, et					
Recording Media	SDHC Memory Card: 4 to 32 GB, SD Memory Card: 2 GB					
Pre-Recording	OFF, 1, 2, 3, 4, 5 second(s)					
Mixer Part						
Mixing Channels	Input: 8 channels, Output: 2 channels (stereo)					
Channel Strip	3-band equalizer, Fader, Pan, MS microphone decoder					
Master	Fader, Limiter					
Audio Input Part						
Signal Processing	AD Conversion: 24 bits					
AD Dynamic Range	120 dB or greater ([SENS] knob = +4 dBu)					
Channel Effects	Limiter, Low Cut, MS microphone decoder					
IN 1-8 jacks (Analog Inputs): XLR type (Phantom powered)	Nominal Input Level (chooses with [SENS] knob): -62 (SENS +6dB parameter = ON), -56, -50, -44, -38, -32, -26, -20, -14, -8, -2, +4 dBu (LEVEL KNOB MODE = INPUT: Changes with the [LEVEL] knob positions in the range of –infinity to +8 dBu Maximum Input Level: +26 dBu Input Impedance: Mic Input ([SENS] knob = -62 to -20 dBu): 3.4 k ohms, Line Input ([SENS] knob = -14 to +4 dBu): 5.6 k ohms *When sampling frequency is 192 kHz, IN 5-8 jacks are inactive.					
DIGITAL IN jack: XLR type (AES/ EBU, conforms to IEC 60958-4)	* When using Digital Input, IN 1-2 jacks are inactive.					
Phantom Power	48 +/- 4 V, 10 mA per 1 channel (8 channels of phantom power available simultaneously)					
Slate Microphone	Built-in					
Audio Output Part						
Signal Processing	DA Conversion: 24 bits					
OUT 1-2 jacks (Analog Outputs): XLR type	Output Buses: Channel 1-2, Channel 3-4, Channel 5-6, Channel 7-8, Stereo mix from built-in mixer, Output Level: +4 dBu/ -60 dBu, Maximum Output Level: +24 dBu, Output Impedance: 600 ohms					
OUT 3-8 jacks (Analog Outputs): XLR type	Output Buses: Channel 1-2, Channel 3-4, Channel 5-6, Channel 7-8, Stereo mix from built-in mixer, Output Level: +4 dBu, Maximum Output Level: +24 dBu, Output Impedance: 600 ohms * When sampling frequency is 192 kHz, OUT 5-8 jacks are inactive.					
MIX OUT jack (Analog Outputs):	Output Buses: Stereo mix from built-in mixer, Maximum Output Level: 2					
Stereo miniature phone type	Vrms/ -30 dBu, Output Impedance: 1 k ohm					
DIGITAL OUT jack: XLR type (AES/ EBU, conforms to IEC 60958-4)	Output Buses: Stereo mix from built-in mixer					
PHONES jack: Stereo 1/4-inch phone type	Output Level: 80 mW (32 ohms), Output Impedance: 10 ohms					
Duille in Oncolon	Stereo					
Built-in Speaker	Stereo					
Slate Tone	1 kHz, -20 dBFS					

Characteristics								
Residual Noise Level	OUT 18: -80 dBu or less ([LEVEL] knobs = -infinity), MIX OUT: -90 dB							
(IHF-A)	or less ([LEVEL] knobs = -infinity)							
Total Harmonic	0.02 % or less ([SENS] knob = +4 dBu, [LEVEL] knob = 0)							
Distortion + Noise								
Frequency Response	20 Hz40 kHz (0/-3 dB, Sampling frequency = 88.2 kHz, 192 kHz)							
Other Terminals								
USB (MEMORY) port:	USB Mass Storage Class (USB 2.0/1.1) * USB HDD cannot be used.							
USB Type A	USB MIDI Interface (Supports Roland UM-ONE mk2 only)							
USB (COMPUTER) port: USB Type mini B	USB Mass Storage Class (USB 2.0/1.1), USB-AUDIO (Hi-Speed USB, Input:							
	10 channels, Output: 8 channels) * When sampling frequency is 192 kHz,							
, , , , , , , , , , , , , , , , , , ,	the USB audio is inactive.							
TIME CODE (OUT, IN) jacks:	Mode: OFF, INT, RTC, REC-RUN, EXT SYNC, EXT(AUTO JAM), EXT							
BNC coaxial type (Conforms	SYNC AUTO REC, EXT AUTO REC, Frame Rate: 23.976, 24, 25, 29.97,							
SMPTE 12M-1999)	29.97D, 30, 30D							
CONTROL 1, 2 jack:	STOP, REC, PLAY, FF, REW, REC/STOP, PLAY/STOP, PLAY(MOMENT),							
1/4-inch TRS phone type	SET MARKER, PREV MARKER, NEXT MARKER							
Others								
Display	Graphic LCD 160 x 160 dots (touch screen)							
Indicators	IN 1-8 PK indicators, SLATE MIC indicator, REC indicator, PLAY indicator							
	AC adaptor (using 4-pin XLR type connector conversion cable), Alkaline							
Power Supply	battery (AA, LR6) or Rechargeable Ni-MH battery (AA, HR6) x 8, External							
	power supply (4-pin XLR type, 9-16 V)							
Current Draw	1.5 A							
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 (including batteries)	2.7 kg, 6 lbs							
Accessories	Owner's Manual, AC adaptor, AC adaptor - 4-pin XLR type connector							
Accessories	conversion cable							

* 0 dBu = 0.775 Vrms

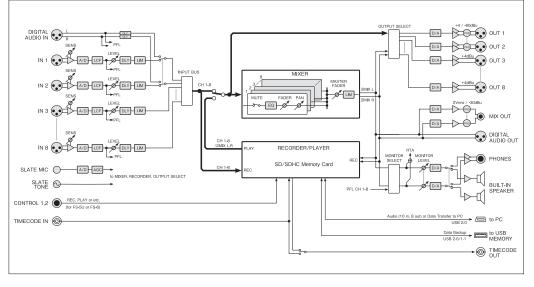
■ Recording Time using 32GB SDHC memory card

UNIT: hours

	16 bits/	24 bits/								
	44.1 kHz	44.1 kHz	48 kHz	48 kHz	88.2 kHz	88.2 kHz	96 kHz	96 kHz	192 kHz	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	_	_
10ch	10	6.7	9.2	6.1	5	3.3	4.6	3	_	_

- * 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







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