Roland



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





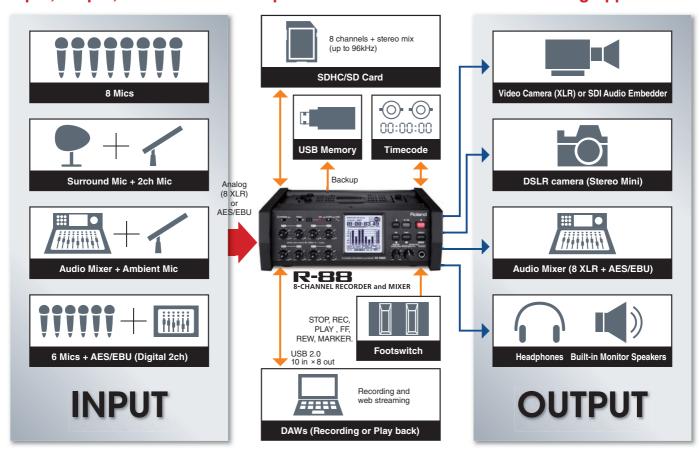
Seamless integration of recording, mixing and an audio interface - a new dimension in professional portable recording.

Simultaneous recording of 8 channels + stereo mix (up to 96kHz)
Up to 24bit/192kHz uncompressed linear PCM recording (up to 4 channels)
3 hours of recording time using 32GB SDHC card (24bit/96kHz, 10ch)
Up to 5 seconds pre-recording
8 XLR inputs, 8 XLR outputs, AES/EBU input/output
Built-in 8 channel mixer with 3-band EQ and MS microphone decoder
Built-in 10in/8out USB audio interface to use with any common DAW (up to 96kHz)
Touch Panel Display for intuitive navigation
SMPTE time code In/out for video sync
BWF and iXML embedded metadata (SCENE, TAKE, TIMECODE RATE)
Supported power types – AA batteries, rechargeable Ni-MH battery, AC power, and 4-pin XLR external battery types.

8-CHANNEL RECORDER and MIXER

USB 2.0 ASIO







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





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



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Hold Switch

Prevents unintentional operations by disabling control from the front panel buttons and touch panel display.

Power Switch

Input Sensitivity & Level Knobs

Dual type knobs adjust both input sensitivity(-56dBu to +4dBu) and level for Ch 1 to 8 independently.

Peak Indicators

Touch Panel Display

The front touch panel displays a variety of contextual information making control and adjustments intuitive.



Memory Card Slot –

Audio is recorded on SD or SDHC cards (up to 32G).

Digital Audio Input/ Output

AES/EBU Input/Output. Provides digital input capability and stereo mix output from internal mixer.

DC Input

Power via the included AC adaptor or professional external battery systems. (4-pin XLR 9 to 16 V)

Outputs 1-2

XLR balance outputs. Assignable from Channel 1/2, 3/4, 5/6, 7/8 or mixed audio via internal mixer. Selectable output level (+4/-60dBu).

Mix Out Terminal —

Stereo miniature phone type. This output offers mixed audio from the internal mixer. Selectable output level (2 Vrms/-30 dBu).

Top Panel

Battery Pack

The R-88 works with eight (8) AA batteries.



Internal speakers

Slate Mic For recording voice

memos

Slate Switch
 On/Off switch to turn on
 Slate Mic or Slate Tone
 (1kHz/-20dBFS)

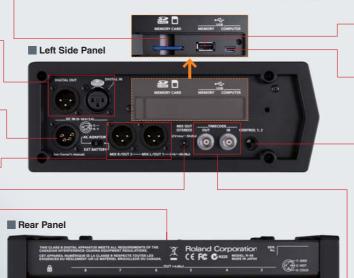
REC Button

REC button lights during recording and blinks in standby mode. During recording, markers are set by pushing the button.



Right Side Panel





Outputs 3-8

XLR balance output. Together with Ch.1 and 2, a total of 8 independent outputs are available. Also, mixed audio via internal mixer can be output (+4dBu).

PREV/NEXT Buttons

PREV and NEXT allow selection of the previous or next file. Hold down these buttons for rewind or fast forward.

MENU Button

This button accesses the menu settings, such as recording/ playback settings and specifying the date and time, recording mode, etc

Monitor Level knob

Volume control for built-in speakers and headphones. When pushing the knob, the monitor/PFL/RTA setting menu screen appears.

Master Level knob

Volume control for stereo mix from internal mixer. When pushing the knob, the mixer menu screen appears.

Inputs/Phantom Power Switches

XLR type jacks support line level to mic level. Individual on/off switches control the phantom powered supply to each XLR input.

USB Memory Port Backup files to USB memory

USB Port

flash drives

Enables copying flies to or from computers or using as a 10 in/8 out USB audio interface (up to 96kHz).



• External Control Jack Enables STOP, REC, PLAY, FF, REW, REC/STOP, PLAY/ STOP, PLAY(MOMENT), SET MARKER, PREV MARKER, NEXT MARKER using optional FS-6 or FS-5U footswitches.

Time Code Input/Output

The R-88 accepts SMPTE time code offering slave mode to video cameras or VTRs. In addition, the R-88 can be the master, sending out time code to slave devices (Time code mode : OFF, INT, RTC, REC-RUN, EXT SYNC, EXT AUTO JAM, EXT SYNC REC, EXT REC).

Specifications

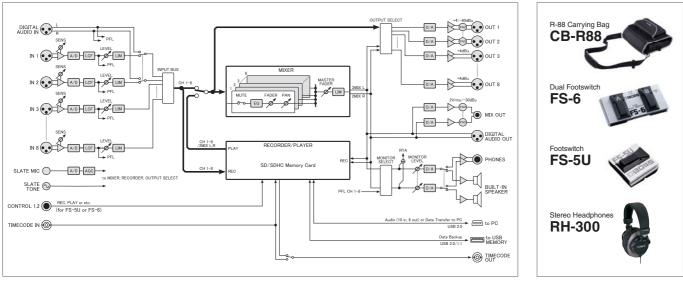
Specifications												
ecorder Part		Built-in Speaker		Stereo								
Channels	8 channels + 2 channels (stereo mix from built-in mixer) (Sampling Frequency 44.1, 48, 88.2 and 96 kHz), 4 channels (Sampling Frequency 192 kHz)		ne		1 kHz, -20 dBFS							
					Pre Fader Listening (PFL), Real Time Analyzer (RTA), Alarm Tone							
Data Type	Format: BWF (mono, stereo), Sampling Frequency: 44.1, 48, 88.2, 96, 192 kHz, Bit Depth: 16, 24 bits, Meta Data: Origination Time, Frame Rate, etc.	Characteristics										
Recording Media	SDHC Memory Card: 4 to 32 GB, SD Memory Card: 2 GB	Residual Noise Level (IHF-A)			OUT 18: -80 dBu or less ([LEVEL] knobs = -infinity), MIX OUT: -90 dBu or less ([LEVEL] knobs = -infinity)							
Pre-Recording	OFF, 1, 2, 3, 4, 5 second(s)			Fotal Harmonia								
Mixer Part		Distortion + Noise			0.02 % or less ([SENS] knob = +4 dBu, [LEVEL] knob = 0)							
Mixing Channels	Input: 8 channels, Output: 2 channels (stereo)	Frequency Response			20 Hz40 kHz (0/-3 dB, Sampling frequency = 88.2 kHz, 192 kHz)							
Channel Strip	3-band equalizer, Fader, Pan, MS microphone decoder	Other Terminals										
Master	Fader, Limiter	USB (MEMORY) port:		USB Mass Storage Class (USB 2.0/1.1) * USB HDD cannot be used.								
Audio Input Part		USB Type A										
Signal Processing	AD Conversion: 24 bits	USB (COMPUTER) port:			USB Mass Storage Class (USB 2.0/1.1), USB-AUDIO (Hi-Speed USB, Input: 10 channels,							
AD Dynamic Range	120 dB or greater ([SENS] knob = +4 dBu)	USB Type mini B			Output: 8 channels) * When sampling frequency is 192 kHz, the USB audio is inactive.							
Channel Effects	Limiter, Low Cut, MS microphone decoder	TIME CODE (OUT, IN) jacks: BNC coaxial type (Conforms										
IN 1-8 jacks (Analog Inputs): XLR type (Phantom powered)	Nominal Input Level (chooses with [SENS] knob): -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 dB.) Maximum Input Level: +26 dBu Input Impedance: Mic Input ([SENS] knob = -56 to -20 dBu): 3.4 k ohms, Line Input ([SENS]	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	1/4-inch TRS phone type SET MARKER, PREV MARKER, NEXT MARKER						-			
		Others										
		Display			Graphic LCD 160 x 160 dots (touch screen)							
	knob = -14 to +4 dBu): 5.6 k ohms	Indicators			IN 1-8 PK indicators, SLATE MIC indicator, REC indicator, PLAY indicator							
	* When sampling frequency is 192 kHz, IN 5-8 jacks are inactive.				AC adaptor (using 4-pin XLR type connector conversion cable), Alkaline							
DIGITAL IN jack: XLR type (AES/ EBU, conforms to IEC 60958-4)	* When using Digital Input, IN 1-2 jacks are inactive.	Power Supply			battery (AA, LR6) or Rechargeable Ni-MH battery (AA, HR6) x 8, External power supply (4-pin XLR type, 9-16 V)							
Phantom Power	48 +/- 4 V, 10 mA per 1 channel (8 channels of phantom power available simultaneously)	Current Draw			1.5 A							
Slate Microphone	Built-in	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							
Audio Output Part		Weight (including batteries)		2.7 kg, 6 lbs								
Signal Processing	DA Conversion: 24 bits	Accessories		Owner's Manual, AC adaptor, AC adaptor - 4-pin XLR type connector conversion cable								
OUT 1-2 jacks (Analog Outputs): XLR type	Output Buses: Channel 1-2, Channel 3-4, Channel 5-6, Channel 7-8,									* 0	dBu = 0.	775 Vrms
	Stereo mix from built-in mixer, Output Level: +4 dBu/ -60 dBu, Maximum											
	Output Level: +24 dBu, Output Impedance: 600 ohms Output Buses: Channel 1-2, Channel 3-4, Channel 5-6, Channel 7-8,	Recording Time using 32GB SDHC memory card UNIT: hours										
OUT 3-8 jacks (Analog Outputs): XLR type	Stereo mix from built-in mixer, Output Level: +4 dBu, Maximum Output		16 bits/	24 bits/	16 bits/	24 bits/	16 bits/	24 bits/	16 bits/	24 bits/	16 bits/	24 bits/
	Level: +24 dBu, Output Impedance: 600 ohms			44.1 kHz		48 kHz	88.2 kHz		96 kHz	96 kHz	192 kHz	192 kHz
	* When sampling frequency is 192 kHz, OUT 5-8 jacks are inactive.	1ch	100	67	92	61	50	33	46	30	23	15
MIX OUT jack (Analog Outputs):	Output Buses: Stereo mix from built-in mixer, Maximum Output Level: 2	2ch	50	33	46	30	25	16	23	15	11	7.7
Stereo miniature phone type	Vrms/ -30 dBu, Output Impedance: 1 k ohm	4ch	25	16	23	15	12	8.4	11	7.7	5.7	3.8
DIGITAL OUT jack: XLR type (AES/	Output Buses: Stereo mix from built-in mixer	8ch	12	8.4	11	7.7	6.3	4.2	5.7	3.8	—	—
EBU, conforms to IEC 60958-4)		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.

Options

Block Diagram

PHONES jack: Stereo 1/4-inch phone type



Roland Systems Group, a member of the worldwide group of Roland companies, is dedicated to the support of audio and video professionals demanding excellence in both performance and system design. Through the development and support of video and audio products, we endeavor to improve workflow and maximize creative possibilities.

Ensuring high quality while protecting the environment: Roland is ISO9001 and ISO14001 certified

Output Level: 80 mW (32 ohms), Output Impedance: 10 ohms

At Roland, several group companies have obtained ISO9001 certification. In addition, in January 1999, Roland also received ISO14001 international environmental management system certification. We're actively seeking ways to maintain harmony with the environment.

(ISO=International Standardization Organization: an organization for the promotion of standardization of international units and terms. They provide different categories of certification: ISO9001 Series certification is a product quality certification for products that undergo a certain level of quality control from the design stage to the after service stage; ISO14001 Series certification is for environment-related standards. Each member of the Roland Group is striving to obtain certification.)





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