



# Roland

# Professional Audio and Video Field Recording Catalog



VIDEO FIELD RECORDER



4-CHANNEL PORTABLE RECORDER





Better Sound-Accelerated Workflow

# Video Field Recorder HDV DV 2+2ch AUDIO USB 2.0 i.LINK Windows\*Vista\*/XP/2000 Mac 0S X



# With a design centered on portability and durability, this recorder will streamline your video production workflow.

Equipped with a shock-resistant floating HDD, the EDIROL F-1 also includes two channels of additional audio, multiple power supply options, remote control via LAN, thumbnail clip review, unlimited file size, and numerous innovative functions that will streamline your recording and accelerate your post-production workflow.



#### Removable HDD provides hours of recording in the field

Additional 2 Channels of Audio recording in hi-quality linear PCM WA\

#### Seamless 9 hours recording with external battery

Remote Control of Multiple Units via LAN for managing multi-camera shoots or remote locations

### Removable HDD provides hours of recording in the field

The F-1 records to removable shock-resistant floating hard drive. Simply remove the full drive, plug into your computer via

bus-powered USB and immediately begin editing your drives (F1-HD120) can be purchased



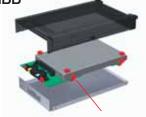




age.

## Worry-Free Recording with Shock Resistant Floating HDD

To protect the disk from inevitable rigors and shocks, the F-1's removable HDD uses full floating architecture. The floating technology allows for worry-free recording in locations with loud & heavy PA sound or shocks from rough terrain and handling.



Shock Absorbent Rubber



## Additional 2 Channels of Audio Recording in Linear PCM

The two independent analog audio inputs on the F-1 enables simultaneous recording of stereo audio from an audio mixer or two microphones. The recording format is Linear PCM broadcast WAV (BWF) at 16-bit/48kHz, providing professional recording quality.





## Three Types of Power Supply Options

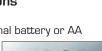
The F-1 can be operated with AC adaptor, external battery or AA

batteries. The AA battery power pack supplies seamless failover power in case you loose external battery or AC power.





Side Panel (R)



## Thumbnail Display on External Monitor

Recorded clips can be shown as thumbnails on an external monitor. This enables last minute previewing to prevent "missedshots" without connecting to computers. Mouse connection to front panel USB port provides quick and intuitive control.



# Quick Backup of Recorded Data to USB Devices

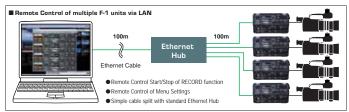
The F-1's USB port provides on-site connection to USB devices for quick backups. Copy time is shorter than real-time, offering speedy transfer of recorded data to your editing suites.



### Control via LAN enables Multi-Camera Shoots Remotely.

From a PC using the control software, you can remotely control Start/Stop functions on up to four F-1 units. Operators can now control multi-camera shoots with minimal staff and in remote locations. You can copy the recorded clips to your computer immediately after recording via LAN.

\* Control Software is a free download available at www.rolandsystemsgroup.net



# Free and Convenient F-1 Utility Software

The F-1 Utility Software provides quick previewing and cut editing with two modes. Browser Mode and Editor Mode.

\* F-1 Utility is a free download available at www.rolandsystemsgroup.net Editor Mode will be available 2008 4Q.



Side Panel (L)

LAN Port

Front Panel





■ AUDIO CONTROL Switches

# 4-CHANNEL PORTABLE RECORDER USB 2.0 Windows\* Visia\*/XP/2000 MacOSX



# A compact, solid state, four channel field recorder

The EDIROL R-44 is designed for professional use within a very conveniently sized package. Capture up to 4 channels of uncompressed audio with selectable bit depth and sampling frequencies. R-44 employs SD card or Large capacity SDHC cards as recording media. No moving parts enables the most silent and reliable operation possible.



Light-weight 1.3kg compact body

> 4 hours of recording

SDHC large capacity media

# Built-in Stereo Microphones and Monitor Speakers

Although the R-44 is compact, all the necessary functions are included. Built-in high quality microphones and speakers make the recording and monitoring without external devices possible.



## Built-in Limiter, Low-Cut Filter and Studio Class Effects

On-board limiter helps suppress sudden peaks in sound from an input source. Low-cut filter is included to help prevent wind noise etc. Studio class effects (as below) can be used to improve audio quality. Effects can be applied while recording or simply for monitoring/play-

3-Band EQ	3-band parametric EQ; allows precise equalization with high/low shelving and peaking				
6-Band Graphic EQ	6 point frequency band equalization; ideal for recording				
Noise Gate	Minimizes noise during low audio levels, cuts low frequency noise				
Enhancer	Cleary defines and enhances sound; good for dialogue				
Comp & DeEsser	mp & DeEsser Cuts hissing, smoothens the sound, makes audio level uniform				
MS Mic Mixing	Generates stereo mix with specified spread from inputs of Mid-Side Microphones				

Effects can be applied on both input and output
Effects are not available while sample rate is set to 192kHz

# Pre-Record Function

The pre-record function buffers input signal for a certain amount of time. When the REC button is pressed, the material from the previous few seconds (selectable) is included. This helps prevent missed recording opportunities or sound bites at the beginning of recording.

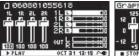
## Connect with Variety of Source Devices

The combo input jack x 4 supports the connection of both XLR (with phantom power supply) and 1/4 inch plugs. Variety of source devices from microphones to musical instruments can be connected. High quality preamp ensures superior recording results.



## High Contrast Organic LED Display

The high contrast, high response organic LED, viewable from wide angles ensures fluid operation in field. The high response of level meters makes precise level adjustment possible.



▲ Mixer Display





▲6-Band Graphic EQ Display ▲Recording Setup Display

## Capture 8 Channels by Linking 2 Units

The control sync terminal enables synchronized operation of 2 units.

The Master unit can remotely control REC standby, REC start and REC stop of the Slave unit. This function enables 8-channel recording in a compact space.



# Link to Computer via Hi-Speed USB

The R-44 can simply be connected to a Mac or PC using a USB 2.0 connection. You can copy data back and forth with a simple drag & drop operation.

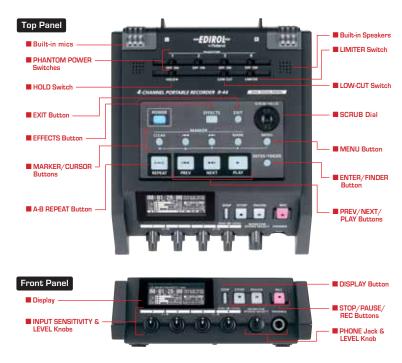


# 3 Types of Power Supply Options

The R-44 can be operated with 3 types of power supply, AC adaptor, external battery and AA batteries. 4 hours\* of operation is possible with NiMH or alkaline Batteries.



\* At 16-bit/44.1kHz stereo. No phantom power and pre-record is disabled





USB 2.0 Windows\* Vista\*/XP/2000 Mac OS X

SMPTE Timecode In/Out for Video Sync 24-bit/192kHz 80GB Hard Disk Drive

AES/EBU



# Portable 4 Channel Recorder with Superior Sound Quality and SMPTE Timecode Sync Function.

The R-4 Pro delivers professional sound and features in a package that everyone can afford. It supports SMPTE timecode and AES/EBU input/output. Record up to 4 channels and monitor each channel discretely.

The 80GB hard disk drive will store up to 116

hours of high quality audio.



## Master or Slave Sync with SMPTE Timecode

The R-4 Pro sends or accepts SMPTE timecode which enables it to act as master or slave with video cameras or VCRs. Four channels of high quality audio can be fully synchronized with video.



# High Quality Pre-amps

The high quality R-4 Pro pre-amps specially designed for field recording ensures superior sound quality.



# AES/EBU Input/Output

The R-4 Pro is equipped with XLR style AES/EBU digital input and output for connection with pro Audio and Video recorders or sources.



# Instant Backup via USB 2.0

The USB host terminal of R-4 Pro enables high speed and instant backup of recorded data to USB devices. Easy and high speed duplication improves production workflow across multiple locations.



# file for many hours. Recording Time (Stereo)

	44.1 kHz	48 kHz	88.2 kHz	96 kHz	192 kHz
16 bit	116 hours	106 hours	58 hours	53 hours	26 hours
24 bit	77 hours	70 hours	38 hours	35 hours	17 hours

Extended Recording with 80GB Hard Disk Drive

Equipped with 80GB HDD, the R-4 Pro can record a stereo audio

\* Recording times are approximate. Actual results may vary.

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







24-bit/96kHz

Stereo Condenser Microphone



# Professional-grade, **High-Resolution Recording**

The R-09HR is a professional, high-definition recorder that travels light and performs like a heavyweight.

- 24-bit/96kHz linear PCM high-resolution, low-noise recording
- Up to 320kbps MP3 playback and recording
- Newly-developed Isolated Adaptive Recording Circuit (I.A.R.C.)
- Professional-grade, high-sensitivity stereo condenser microphone built-in
- Records to SD or SDHC memory card (up to 32GB)
- Wide view-ability on large OLED (Organic Light-Emitting Diode)
- Built-in preview speaker
- Wireless remote controller included
- Hi-speed file transfer via USB 2.0 to computer











**4CHANNEL PORTABLE RECORDER** and WAVE EDITOR

R-09 24 bit WAVE/MP3 RECORDER
USB 2.0 Windows\* Vista\*/XP/2000 Mac OS X





Superior Sound and Extended Recording Time with 40GB Hard Disk Drive. 4-Channel Portable Recorder for Professional Use.

- Simultaneous 4-channel recording
- Extended recording with 40GB hard disk drive
- Superior 24-bit/96kHz linear recording
- On-board limiter
- Built-In nondirectional stereo microphones
- Pre-recording function
- Long battery life
- High-quality effects
- L terminal for linking a digital video camera







## Pristine 24-bit Recording to Go

- 24-bit/48kHz (or 44.1kHz) uncompressed recording
- Up to 320kbps MP3 playback and recording
- Records to SD or SDHC memory card (Up to 16 GB)
- High-grade stereo condenser microphone built in
- Mic and Line audio inputs; USB 2.0 I/O
- Easy operation, user-friendly graphic display
- Long battery life



### Specifications

Video Recording Format: HDV (.m2t), DV (.dv) ◆Audio Recording Format: WAV (Supports BWF), Sampling: 16-bit/48kHz ◆Audio Control: Switch = Gain (MIC/-20dB/LINE), Phantom Power +48V (ON/OFF) Volume = Ch3 Input, Ch4 Input, Headphones ◆Audio Input Impedance: 4 k ohms ◆Headphones Output Impedance: 16 ohms ◆Headphones Output Level: 45 mW ◆Recording Media: Hard Disk Drive (120 GB) \*removable unit o Max Recording time: Approx 5 hours (Fi-HD120 as recording media, without audio phoput/Uptput Jacks: [Front Panel] i.LINK = 6-pin type conforms to IEEE1394 USB A Type (For USB Storage device, USB Mouse) \*Supports 2.0 Hi-Speed, USB min B Type (For Computer) \*Supports 2.0 Hi-Speed, Flight Side Panel] Display Output = 15-pin timil D-sub Type (Analog RGB, 800x600 fixed resolution), Audio Input (Ch3/4) = 3-pin XLR Type x 2, Di Chput = 4-pin XLR Type [Left Side Panel] LAN = AL45 Type (Ethernet 10/1008ase-Tx) ◆Display: 128 x 64 dots (Organic LED) ◆Power Supply: DC 9 V (AC Adaptor) \*9-16V 2.04 or HR15/51 x 8 or LR6 (AA) x 8 ◆Max Operation time: Nickel Hydride Battery x 8 - Approx 2 hours, External Battery (IDX Enduratol Li-In Dattery) Approx 10 hours \*These operation times are approximate. Actual time may vary somewhat. ◆Current Draw: 1,500 mA ◆Dimensions: 111 (W) x 179 (D) x 61 (H) mm, 4-3/8 (W) x 7-1/6 (D) x 2-3/8 (H) linches ◆Weight: 870 g (1 lb 15 oz) including HDD, excluding AC Adaptor and batteries

●Channels: 4 ●Data Type: Format = WAV/BWF ●Sampling Bit Rate: 16/24 bits ●Sampling Frequency: 44.1/48/88.2/96/192 kHz (Limited Obannels: 4 ⊕Data Type: Format = WAV/BWF ⊕Sampling Bit Rate: 18/24 bits ⊕Sampling Frequency: 44.1/48/88.2/96/192 kHz (Limited to Stereo x 1 at 192kHz) ¹16 or 24 bit sampling rate can be selected with any frequency ●Recording Media: SDHC memory card (compatible with 64 MB - 32 GB) ⊕Analog Input: Ch 1 - 4 = XLR/TRS Combo type, XLR type (phantom powered). TRS type (dalanced/unbalanced), Stereo Built-in Microphones ●Analog Output: Ch 1 - 4 = XLR/TRS Combo type, XLR type (phantom powered). TRS type (balanced/unbalanced). Built-in Microphones ●Analog Output: Ch 1 - 4 = RCA Pin type (life G0958-3) ⊕Input Impedance: XLR = 4 kohms or greater (balanced). TRS = 6k hother or greater (balanced). TRS = 6k hother or greater (balanced). TRS = 6k hother of greater (balanced). TRS = 6k hother of the selection o to either recording or playing "Not available to recording in 192 kHz sampling frequency. Display: 128 x 64 dots OLED (Organic Light Emitting Diode) Graphic Display Dever Supply: AC Adaptor (PSB-10), A by to battery x4 (Alkaline or Nickel Hydride) Ournet Draw: 1.2 A Dimensions: 157(W) x 183(D) x 61(H) mm, 6-3/16(W) x 7-1/4(D) x 2-7/16(H) inches Overlight: 1.3 kg (2 lbs 14 oz) including batteries

©Channels: 4 ●Signal Processing: AD/DA Conversion = 24 bits, Sampling Frequency = 44.1/48/88.2/96/192 kHz \*Limited to Stereo x 1
when 192 kHz •Data Type: Format = BWF/WAV, Sampling Frequency = 44.1/48/88.2/96/192 kHz, Bit Depth = 16/24 bits •Recording Media:
Internal Hard Disk Drive (80 GB) •Analog Input: Channel 1/2/3/4 = XLR type (Phantom powered), Internal Microphones (Stereo) •Analog 

Channels: 4 Signal Processing: AD/DA Conversion = 24 bits, Sampling Frequency = 44.1/48/96 kHz ◆Data Type: Format = WAV/BWF, Sampling Frequency = 44.1/48/96 kHz ◆Data Type: Format = WAV/BWF, Sampling Frequency = 44.1/48/96 kHz ◆Data Type: Format = WAV/BWF, Sampling Frequency = 44.1/48/96 kHz ◆Data Type: Format = WAV/BWF, Sampling Frequency = 44.1/48/96 kHz ◆Data Type: Channel 1/22/34 = XLR type (Phantom powered), 1/4 inch TRS phone type (balanced/unbalanced), Internal Microphone (Stereo) ◆Analog Output: Channel 1/22/34 = XLR type (Phantom powered), 1/4 inch TRS phone type (balanced/unbalanced), Internal Microphone (Stereo) ◆Analog Output: Channel 1/22/34 = XLR type (Phantom powered), 1/4 inch TRS phone type (balanced/unbalanced), Internal Microphone Solition (Phantom powered), 1/4 inch Type (conforms to IEC60958) ◆Input Impedance: 4 k ohms ◆Nominal Input Level (Variable): Line Level = -33 --4 dBu, MIC Level = -60 --23 dBu •Output Impedance: 1.10 e. 0.00 the 1/2 b. 1/4 b. 1/

including batteries and memory card.

#### R-09

•Memory Card = SD Memory Card (supports 64 MB+2 GB), SDHC Memory Card (4-86B) format compatible. •Audio Input: Internal Stereo Microphone, Mic input(Stereo miniature phone type, plugi-in powered milo; Line input (Stereo miniature phone type). Digital Out Connector\* (Optical miniature phone type) \*Phones and Digital Out use a common jack. •Nominal Input Level (Variable): Mic Input = 36 dBu (Default input level). Line Input = 0 dBu (Default input level) •Input level

(\*0 dBu = 0.775 V rms)

### Optional Items

#### For F-1



V-Mount Kit F1-VMK1

her battery mounting devices are being investigated at this time



An F1-HD120 is included with each F-1 purchase



#### For R-44





For R-09HR/R-09





OP-RO9HR-P/OP-RO9-P

### Microphone





CS-15/CS-15R



Condenser Microph **DR-80C** 



Roland Dynamic Mic **DR-30** 

Headphone Roland Stereo Headph

RH-300 RH-200





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Fugue

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