

VC-30HD RCS

Dedicated software, VC-30HD RCS* enables greater control of numerous parameters.

- Codec Bit Rate: MPEG-2 TS (HD: 50/35/25/18/12/8 Mbps, SD: 12/9/6/4/3/2 Mbps)
- Audio Input Delay: Max. 1sec by 1/10 frame
- Setup Level (NTSC): 0 IRE or 7.5 IRE
- Component Level: SMPTE or BETACAM
- Audio, i-LINK, timecode and more

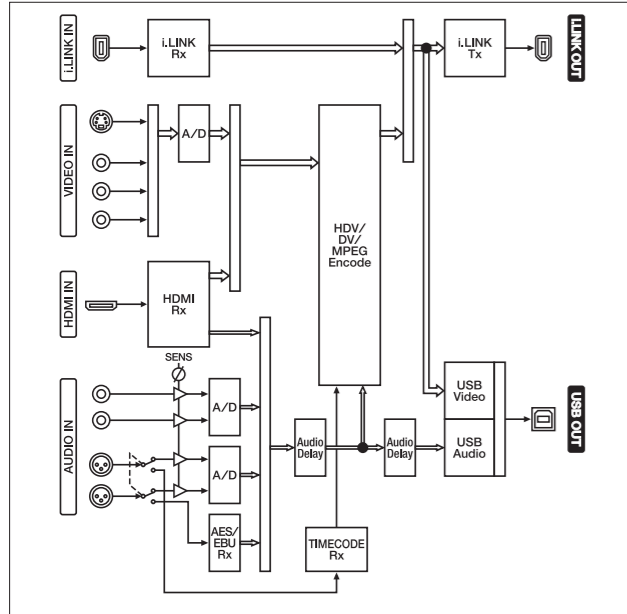


*VC-30HD RCS for PC or Mac can be downloaded from www.rolandsystemsgroup.net.

VIDEO CONVERTER VC-30HD

- HDV
- DV
- MPEG-2 TS
- HDMI
- COMPONENT
- S-VIDEO
- COMPOSITE

Block Diagram



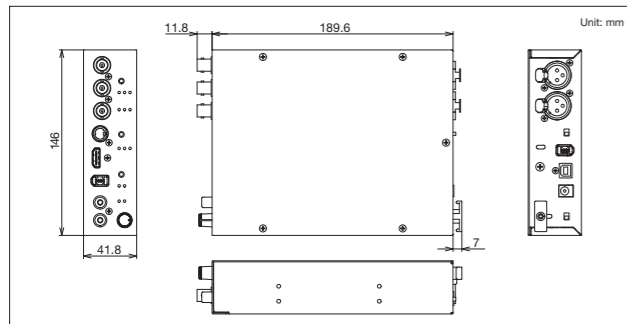
*USB output does not support embedded audio signal from IEEE1394 or control of audio volume.
*Audio and Timecode can be embedded in the IEEE1394 video output.
*Audio level from HDMI, i.LINK, AES/EBU can't be controlled.

Specifications

Codec Type	Input	Output *4
HDV	Video Format: MPEG-2 Video, 8 bits, 4:2:0 1440 x 1080 / 59.94i / 50i / 23.98p (25 Mbps) 1280 x 720 / 59.94p / 50p (18.3 Mbps) 720 x 480 / 59.94p, 720 x 576 / 50p (18 Mbps) Audio Format: MPEG-1 Audio Layer2, 16 bits, 48 kHz, 2 ch (384 kbps)	i.LINK (Rear) Connector Type: 6-pin type (S100) x 1 Signal Format: HDV, DV (IEC61883-2), MPEG-2 TS (IEC61883-4) Maximum Bit Rate: 50 Mbps
DV	Video Format: 720 x 480 / 59.94i, 720 x 576 / 50i Audio Format: Linear PCM, 16 bits, 48 kHz, 2 ch	USB Connector Type: USB Type B (Hi-Speed USB) x 1 Signal Format: USB Video (DV, MPEG-2 TS), USB Audio (Audio, MIDI) Maximum Bit Rate: 25 Mbps (35 Mbps and 50 Mbps are not supported.)
MPEG-2	Video Format: MPEG-2 Video, 8 bits, 4:2:0 1920 x 1080 / 59.94i / 50i / 23.98p (25 Mbps) *1 1280 x 720 / 59.94p / 50p (25 Mbps) *1 720 x 480 / 59.94p, 720 x 576 / 50p (25 Mbps) *1 720 x 480 / 59.94i, 720 x 576 / 50i (6 Mbps) *2 Audio Format: MPEG-1 Audio Layer2, 16 bits, 48 kHz, 2 ch (384 kbps)	
HDMI *3	Connector Type: Type A (19 pins) x 1 Video Format: 1920 x 1080 / 59.94i / 50i, 1280 x 720 / 59.94p / 50p 720 x 480 / 59.94p, 720 x 576 / 50p 720 (1440) x 480 / 59.94i, 720 (1440) x 576 / 50i Audio Format: Linear PCM, 16 to 24 bit, 32 to 48 kHz, 2 ch	
Component	Connectors Type: Y / Pb / Pr (BNC type) x 1 Video Format: 1920 x 1080 / 59.94i / 50i / 23.98p 1280 x 720 / 59.94p / 50p, 720 x 480 / 59.94p 720 x 576 / 50p, 720 x 480 / 59.94i, 720 x 576 / 50i Input Level: 1.0 Vp-p (Luminance), 0.7 Vp-p (Chrominance) Impedance: 75 ohms	
Composite	Connector Type: BNC type x 1 (Combined use with Component Y Connector) Video Format: NTSC, PAL, Input Level: 1.0 Vp-p, Impedance: 75 ohms	
S-Video	Connector Type: 4-pin mini DIN type x 1 Video Format: NTSC, PAL Input Level: 1.0 Vp-p (Luminance), 0.286 Vp-p (NTSC Chrominance) 0.3 Vp-p (PAL Chrominance) Impedance: 75 ohms	
i.LINK (Front)	Connector Type: 6-pin type (S100) x 1 Signal Format: HDV, DV (IEC61883-2), MPEG-2 TS (IEC61883-4) Maximum Bit Rate: 50 Mbps	
Audio (Front)	Connectors Type: RCA phono type x 1 pair (L/R) Input Level: -20 to -6 dBu, Impedance: 35 k ohms	
Audio (Rear)	Connectors Type: XLR type (balanced) x 1 pair (L/R) Input Level: -8 to +10 dBu, Impedance: 14 k ohms	
Digital Audio	Connector Type: XLR type x 1 (Combined use with Audio Rear R ch Connector) Signal Format: AES3, 16 to 24 bits, 32 to 48 kHz, 2 ch Impedance: 110 ohms	
Timecode	Connector Type: XLR type x 1 (Combined use with Audio Rear L ch Connector) Signal Format: SMPTE 12M LTC, Input Level: 0.5 to 18 Vp-p Impedance: 14 k ohms	
Dimensions	146 (W) x 210 (D) x 42 (H) mm, 5-3/4 (W) x 8-5/16 (D) x 1-11/16 (H) inches	
Weight	900 g (without AC Adaptor), 2 lbs	

*1: 25 Mbps is default value, MPEG-2 TS bit rate can be set using VC-30HD RCS.
*2: 6 Mbps is default value, MPEG-2 TS bit rate can be set using VC-30HD RCS.
*3: Version 1.3, with Deep Color support. HDCP (High-bandwidth Digital Content Protection) is not supported.
*4: i.LINK and USB output signals are the same bit rate. Up/Down conversion, IP conversion, NTSC/PAL conversion, Frame conversion are not supported.

Dimensions



Related Items

Fully bi-directional, Universal, multi-format converter

HDV/DV, DVI-D/A and Component I/O. VC-300HD includes SD/HD-SDI I/O. Up/Down/Cross Conversion as well as support for progressive formats and frames rates like 24p.

Multi-Format Converter VC-300HD Ver.2
 HDV DV HD-SDI SD-SDI DVI RGB COMPONENT

Multi-Format Converter VC-200HD Ver.2
 HDV DV DVI RGB COMPONENT

Bi-directional, portable video conversion

● Between HD/SD-SDI and MPEG-2 TS/HDV/DV
 ● Portable and Lightweight with High Performance
 ● HDMI Output enables convenient monitoring
 ● External/Internal Battery Support

Video Field Converter VC-50HD
 HDV DV MPEG-2 TS HD-SDI SD-SDI HDMI

Convenient Video Field Recorder

● HDV/DV/MPEG-2 TS Video Recorder
 ● Support MPEG-2 TS 2Mbps to 50Mbps
 ● Pre-Recording and Loop Recording
 ● Dedicated Utility Software can edit and convert video
 ● Network remote control function

Video Field Recorder F-1 Ver.2
 HDV DV MPEG-2 TS 2-CH AUDIO USB 2.0 i.LINK

INPUT

- Composite
- S-Video
- Component
- i.LINK (IEEE1394)
- HDMI**
- RCA Audio x2
- XLR Audio x2**
- AES/EBU
- HDMI Linear PCM
- SMPTE Timecode

OUTPUT

- USB 2.0
- i.LINK (IEEE1394)
- Audio Delay**
- Embedded Audio

Dual!!



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

Audio/Video Converter for Web Streaming and Capture/Archiving

Simultaneous USB and IEEE1394 output for Web streaming and Capture/Archiving



Supports numerous video/audio formats

Accepts HDMI, Component, composite, S-Video, IEEE1394, and analog or digital audio via RCA, XLR, and AES/EBU.

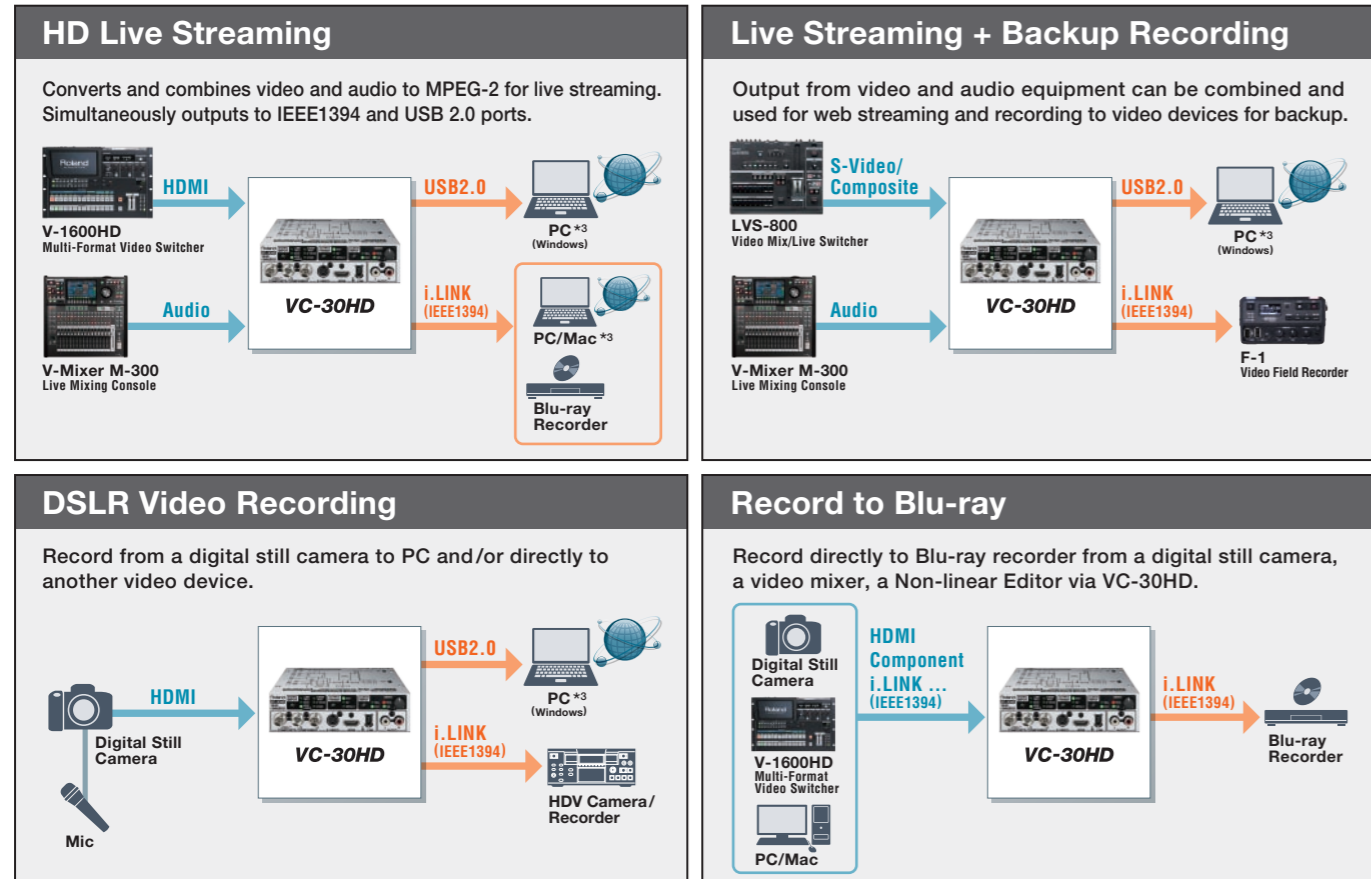
High quality real-time encoder

Converts uncompressed analog/digital video to MPEG-2/HDV/DV.

Simultaneous USB and IEEE1394 output

For concurrent live event video encoding/streaming & recording applications

Application Examples



Supports numerous video/audio format conversions

SELECT

VIDEO INPUT selector and indicators

OUTPUT FORMAT selector and indicators
*MPEG-2 TS bit rate can be set using VC-30HD RCS.

ANALOG AUDIO INPUT selector, indicators and volume



INPUT

ANALOG VIDEO INPUT connectors
*Up/Down conversion is not supported.

HDMI INPUT connector
*Version 1.3, with Deep Color support
*HDCP (High-bandwidth Digital Content Protection) is not supported.

i.LINK INPUT connector

AUDIO INPUT connectors
*Choose between balanced analog audio or digital AES/EBU and timecode.



DUAL OUTPUT

USB Video/Audio OUTPUT connector

i.LINK OUTPUT connector

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*1: USB output does not support embedded audio signal from IEEE1394 or control of audio volume.
*2: Audio and Timecode can be embedded in the IEEE1394 video output.
*3: Visit www.rolandsystemsgroup.net for the latest information about PC operating system and application software compatibility with live streaming.