

VIDEO

Video Processing

4:2:2 (Y/Pb/Pr), 8-bit

Input Formats

HDMI IN 1--2 connectors:

720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p,
1080/50p

SVGA (800 x 600/60Hz), XGA (1024 x 768/60Hz),
WXGA (1280 x 800/60Hz), FWXGA (1366 x 768/60Hz),
SXGA (1280 x 1024/60Hz), SXGA+ (1400 x 1050/60Hz),
UXGA (1600 x 1200/60Hz), Full HD (1920 x 1080/60Hz),
WUXGA (1920 x 1200/60Hz)

- * The refresh rate is the maximum value of each resolution.
 - * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11.
 - * 1920 x 1200/60 Hz: Reduced blanking
 - * HDCP is not supported.
-

Output Formats

HDMI OUT MAIN, PVW connectors:

1080/59.94p, 1080/50p

- * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz).
 - * HDCP is not supported.
-

Stream, Video Recorder, and Audio Recorder formats

File Format: MP4

Video Codec:

H.264, profile High/Main/Baseline

720/59.94p, 720/50p, 1080/59.94p, 1080/50p

target bitrate up to 20,000 kbps,

Audio Codec:

AAC LC 48kHz 16bit Stereo, target bitrate up to 384 kbps

File Format: WAV

Audio Codec:

Linear PCM, 16 bit/48 kHz, stereo

Video Player

File Format: MP4

Video Codec:

H.264

Maximum 1080p29.97

Average bit rate of 10,000 kbps or less

Audio Codec:

AAC LC 48kHz 16bit Stereo

USB Video or Audio

USB Video: Maximum 720p29.97, Uncompressed (YUY2)

USB Audio: Linear PCM, 16 bit/48 kHz, stereo

* You can use either USB video or USB audio.

* The USB VIDEO IN Mode can be selected at the SYSTEM menu (Video Only or Audio Only).

* The USB STREAM output of the following Roland products can be used with the SR-20HD:

VR-4HD, UVC-01

Import Still Image

PNG File (.png), Maximum 1920 x 1080 pixels, 24-bit color (alpha channel not supported)

JPEG File (.jpg .jpeg), Maximum 1920 x 1080 pixels, 24-bit color

Save Still Image

JPEG File (.jpg), 1920 x 1080 pixels, 24-bit color

Video Effects

Scene: Picture in Picture, Split, Picture by Picture

Transition: Black fade, Mix fade

Key Composition: Luminance key, Chroma key

Other: Output fade, Test pattern output, Stream Delay

AUDIO

Audio Processing

24 bits/48 kHz

Audio Formats

HDMI IN/OUT connectors: Linear PCM, 24 bit/48 kHz, stereo

Audio Effects

Delay, High Pass Filter, Gate, Compressor, Equalizer, Limiter,
Test tone output

Audio Player

File format: WAV (Linear PCM, 16 bits, 48 kHz/44.1 kHz,
stereo)

COMMON SECTION

Recording Media

SDXC/SDHC card (sold separately)

* SDXC card is required for video recording. When using the
SR-20HD, you must always install an SD card.

Other Functions

Panel lock function
EDID emulator

CONNECTORS

Input Connectors

HDMI IN 1--2 connectors: HDMI type A (Multi-format
supported)

AUDIO IN 1--4 jacks: Combo type

XLR type: balanced, phantom power (DC 48 V, 10 mA), (1
GND, 2 HOT, 3 COLD)

1/4-inch TRS phone: balanced

Output Connectors

HDMI OUT MAIN, PVW connectors: HDMI type A

LINE OUT jack: RCA phono type

PHONES jack: Stereo miniature phone type

Input/Output Connector

HEADSET jack: Stereo miniature phone type (3.5 mm, 1/8-inch, TRRS 4-pole, CTIA)

Other Connectors

USB VIDEO IN port: USB A (USB 3.0)
USB CONTROL port: USB A (USB 2.0)
LAN (DIRECT STREAM) port: RJ-45, 1000BASE-T
DC IN jack

AUDIO INPUT/OUTPUT CHARACTERISTICS

Nominal Input Level

AUDIO IN 1--4 jacks: -52 to +4 dBu (Maximum Input level: +24 dBu)
LINE IN jack: -10 dBu (Maximum Input level: +10 dBu)

Input Impedance

AUDIO IN 1--4 jacks (XLR type, with phantom power): 5 k ohms
AUDIO IN 1--4 jacks (XLR type, without phantom power): 7 k ohms
AUDIO IN 1--4 jacks (TRS 1/4-inch phono type): 7 k ohms
LINE IN jack: 18 k ohms

Nominal Output Level

AUDIO OUT jack: -10 dBu (Maximum Output level: +10 dBu)
PHONES jack: 72 mW + 72 mW (32 ohms)

Output Impedance

AUDIO OUT jack: 1 k ohm

OTHERS

Display

4.3 inches TFT color LCD: 480 x 272 dots

Power Supply

AC adaptor

Current Draw

3.5 A

Power Consumption

42 W

Operation Temperature

+0 to +40 degrees Celsius
+32 to +104 degrees Fahrenheit

Dimensions

300 (W) x 215 (D) x 86 (H) mm
11-13/16 (W) x 8-1/2 (D) x 3-7/16 (H) inches

Weight (excluding AC adaptor)

2.4 kg
5 lbs 5 oz

Accessories

Startup Guide
Leaflet "USING THE UNIT SAFELY"
AC adaptor
Power cord

* 0 dBu = 0.775 Vrms

All specifications and appearances are subject to change.