

VIDEO

Video Processing

4:2:2 (Y/Pb/Pr), 10-bit

Number of Video Channels

4 channels

Video Input Formats

HDMI 4K IN:

2160p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz

1080p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz

1080i/59.94 Hz, 50 Hz

720p/60 Hz, 59.94 Hz, 50 Hz

* HDCP 1.4, 2.2 supported.

* Conforms to CEA-861-F

* Color Gamut: Rec.709, Rec.2020

* Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG

Video Output Formats

HDMI 4K OUT:

2160p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz

1080p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz

* HDCP 1.4, 2.2 supported.

* Conforms to CEA-861-F

* Color Gamut: Rec.709, Rec.2020

* Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG

HDMI HD OUT:

1280 x 720/60 Hz

* HDCP 1.4 supported.

* Conforms to CEA-861-F

* Color Gamut: Rec.709

* Dynamic Range: SDR

4K STREAMING:

960 x 540, 1280 x 720, 1920 x 1080, 2560 x 1440, 3840 x 2160

* Frame Rate (--2560 x 1440): 25 Hz, 29.97 Hz, 30 Hz, 50 Hz, 59.94 Hz, 60 Hz.

* Frame Rate (3840 x 2160): 25 Hz, 29.97 Hz, 30 Hz.

* Color Gamut: Rec.709

* Dynamic Range: SDR

* Conforms to USB Video Class

Still Image:

Bitmap File (.bmp) Maximum 3840 x 2160 pixels, 24-bit color, uncompressed.

JPEG File (.jpg, .jpeg) Maximum 3840 x 2160 pixels, 24-bit color

PNG File (.png) Maximum 3840 x 2160 pixels, 24-bit color

* It can be stored up to 8 files in the internal memory.

* PNG alpha channel supported

Video Effects

Transition: Cut, Mix, Wipe (11 patterns)

Composition: Background, Layer 1 (PinP + Key)(*1), Layer 2 (PinP + Key) (*1), DSK (*2), Logo (*3)

Other: Multi-View, Output Fade, Output Freeze, Output Capture, Still Image playback, Test pattern output

*1 Chrominance Key, Luminance Key

*2 Chrominance Key, Luminance Key, Still image alpha channel

*3 Chrominance Key, Luminance Key, Still image alpha channel,

For 4K STREAMING only. Maximum size is 1920 x 1080.

AUDIO

Audio Processing

Sample rate: 24 bits, 48 kHz

Number of Audio Channels

14 Channels

* MIC x6, LINE x2, HDMI, USB

Audio Formats

HDMI 4K IN : Linear PCM, 24 bits, 48 kHz, 2 ch

HDMI 4K OUT : Linear PCM, 24 bits, 48 kHz, 2 ch

4K STREAMING (Input and Output) : Linear PCM, 16 bits, 48 kHz, 2 ch

Audio Effects

Channel Effects: Auto Gain, High pass filter, Anti-feedback, Noise Gate, De-esser, Compressor, 4-Band PEQ, Delay, Auto Mixing

Master Effects: Reverb, Compressor/Limiter, Loudness Auto Gain Control, 15-band GEQ, Delay

Others: Output fade, Test tone output

COMMON SECTION

External Media

USB flash drive (commercially available)

Other Functions

Scene Memory (64 types)

Panel Lock Function

EDID Emulator

Menu language (English, Japanese)

CONNECTORS

Video Input Connectors

HDMI 4K IN 1--3, 4-1--4-4: HDMI type A (HDMI 2.0) x 7

* HDCP 1.4, 2.2 Supported

* Multi-format Supported

Video Output Connectors

HDMI 4K OUT 1--2: HDMI type A (HDMI 2.0) x 2

* HDCP 1.4, 2.2 Supported

* Multi-format Supported

HDMI HD OUT: HDMI type A (HDMI 1.4) x 1

* HDCP 1.4 Supported

4K STREAMING: USB Type-C (R) (USB 3.2 GEN 2 10 Gbps)

4K STREAMING: USB Type-C (R) (USB 3.1 GEN 2 10 Gbps)

Audio Input Connectors

Analog:

AUDIO MIC IN 1--4: Combo type (XLR, 1/4-inch TRS phone)
balanced, phantom power (DC 48 V, 10 mA Max)

AUDIO MIC IN 5--6: 1/4-inch TRS phone, balanced

AUDIO LINE IN 1--2: RCA phono type

Digital:

4K STREAMING: USB Type-C (R)

HDMI 4K IN 1--3, 4-1--4-4: HDMI type A (HDMI 2.0) x 7

Audio Output Connectors

Analog:

AUDIO OUT MAIN (L, R): XLR type

AUDIO OUT AUX (L, R): RCA phono type

PHONES: Stereo 1/4-inch phone type

Digital:

4K STREAMING: USB Type-C (R)

HDMI 4K OUT 1--2: HDMI type A (HDMI 2.0) x 2

HDMI HD OUT: HDMI type A (HDMI 1.4) x 1

Other Connectors

USB HOST1--2: USB A type
RS-232: 9 pin D-sub type (Male)
LAN: RJ45 type, 100BASE-TX
TALLY: 9 pin D-sub type (Female)

AUDIO INPUT/OUTPUT CHARACTERISTICS

Nominal Input Level

AUDIO MIC IN 1--6: -64--+4 dBu (Maximum input level: +24 dBu)
AUDIO LINE IN 1--2: -10 dBu (Maximum input level: +10 dBu)

Input Impedance

AUDIO MIC IN 1--6: 16 k ohms (phantom power OFF), 8 k ohms (phantom power ON)
AUDIO LINE IN 1--2: 2.7 k ohms

Nominal Output Level

AUDIO OUT MAIN (L, R): +4 dBu (Maximum output level: +24 dBu)
AUDIO OUT AUX (L, R): -10 dBu (Maximum output level: +10 dBu)
PHONES: 90 mW + 90 mW (32 ohms load)

Output Impedance

AUDIO OUT MAIN (L, R): 600 ohms
AUDIO OUT AUX (L, R): 1 k ohms
PHONES: 10 ohms

Residual Noise Level (IHF-A, typ.)

-87 dBu (All faders: Min)
-85 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Min)
-57 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Max)

- * Input 150 ohms terminate
- * Output Connector: AUDIO OUT MAIN (L, R) jacks

-100 dBu (All faders: Min)

-99 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Min)

-80 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Max)

- * Input 150 ohms terminate

- * Output Connector: AUDIO OUT AUX (L, R) jacks
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OTHERS

Display

7 inch Graphic color LCD 800 x 480 dots (touch screen) x2

Internal Speaker

Monaural 1 W

Power Supply

AC 115 V, AC 117 V, AC 220 V, AC 230 V, AC 240 V (50/60 Hz)

Power Consumption

115 W

Operation Temperature

+5 to +40 degrees Celsius

+41 to +104 degrees Fahrenheit

Dimensions

436 (W) x 279 (D) x 137 (H) mm

17-3/16 (W) x 11 (D) x 5-7/16 (H) inches

Weight (excluding Accessories)

6.8 kg

15 lbs

Accessories

Startup Guide
Power cord

* 0 dBu = 0.775 Vrms

* This product is a Class A digital device under FCC part 15.

All specifications and appearances are subject to change.

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