

## Video

### Processing

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

### Formats

#### SDI:

2160p(DCI)/59.94 Hz, 50 Hz, 30Hz, 29.97Hz, 24Hz, 23.98Hz (SMPTE ST2048)

2160p(UHD)/59.94 Hz, 50 Hz, 30Hz, 29.97Hz, 24Hz, 23.98Hz (SMPTE ST2036)

1080p/59.94 Hz, 50 Hz, 30Hz, 29.97Hz (SMPTE ST274)

1080i/59.94 Hz, 50 Hz (SMPTE ST274)

#### HDMI: \*1

2160p(DCI)/59.94 Hz, 50 Hz, 30Hz, 29.97Hz, 24Hz, 23.98Hz (CEA-861-F)

2160p(UHD)/59.94 Hz, 50 Hz, 30Hz, 29.97Hz, 24Hz, 23.98Hz (CEA-861-F)

1080p/59.94 Hz, 50 Hz, 30Hz, 29.97Hz(CEA-861-F)

1080i/59.94 Hz, 50 Hz (CEA-861-F)

4096 x 2160/60 Hz (CEA-861-F)

3840 x 2160/60 Hz (CEA-861-F)

2560 x 1440/60 Hz (VESA CVT Reduced blanking)

1920 x 1200/60 Hz (VESA CVT Reduced blanking)

1920 x 1080/240 Hz (Pixel Clock 556.8 MHz, 567.0MHz) \*2

1920 x 1080/144 Hz (Pixel Clock 346.54 MHz) \*2

1920 x 1080/120 Hz (VESA CVT Reduced blanking) \*2

1920 x 1080/60 Hz (CEA-861-F)

\*1 HDCP 1.4, 2.2 supported.

\*2 Input and through output.

#### USB Streaming: \*3 \*4 \*5

1080p, 720p, 640 x 480

\*3 UVC (USB Video Class) Uncompressed Video 4:2:2 (Y/Pb/Pr), 8-bit

\*3 The video signal frame rate can be selected Full or Half of System frame rate.

\*4 Color Gamut: Rec.601, Rec.709, Dynamic Range: SDR

\*Color Gamut: Rec.601, Rec.709, Rec.2020

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

## Functions

4K Scaler

FHD Down Scaler for USB Streaming

Fade to Black

Test Pattern Generator

Rotation \*6

Flip H, V

Edge Enhancer

Motion Adaptive Deinterlacer

Color Correction

Dynamic Range Conversion

Frame Rate Conversion (up to 240Hz)

\*6 The following functions cannot be used at the same time. Sub Processing, Rotation, HDMI Through.

## Audio

### Processing

24 bits/48 kHz

### Formats

12G-SDI: Linear PCM, 24 bits/48 kHz, 16 ch (SMPTE 299M)

HDMI 4K: Linear PCM, 24 bits/48 kHz, 8 ch

STREAMING: Linear PCM, 16 bits/48 kHz, 2 ch (UAC (USB Audio Class))

### Input Level

LINE IN: -10 dBu (Maximum: +8 dBu)  
AUDIO IN: +4 dBu (Maximum: +24 dBu)

#### Input Impedance

LINE IN: 38 k ohms  
AUDIO IN: 15 k ohms

#### Output Level

LINE OUT: -10 dBu (Maximum: +8 dBu)  
AUDIO OUT: +4 dBu (Maximum: +24 dBu)

#### Output Impedance

LINE OUT: 1 k ohm  
AUDIO OUT: 600 ohms

#### Functions

Output Level  
Patchbay  
Delay  
Equalizer  
Mastering  
Test Tone Generator

#### Connectors

##### Input Connectors

12G-SDI IN: BNC type (SMPTE 2082, 2081, 424M(SMPTE 425M-AB), 292M, 259M)  
HDMI 4K IN: HDMI type A  
STREAMING: USB type B (USB3.0)  
LINE IN: RCA phono type  
AUDIO IN: DB-25 female type (Balanced audio 2 ch)  
REFERENCE IN: BNC type (Black Burst (Sync to frames), Bi-Level, Tri-Level)

##### Output Connectors

12G-SDI OUT: BNC type (SMPTE ST2082, ST2081, 424M(SMPTE 425M-AB), 292M, 259M)  
12G-SDI THRU: BNC type  
HDMI 4K OUT: HDMI type A  
STREAMING: USB type B (USB3.0)  
LINE OUT: RCA phono type  
AUDIO OUT: DB-25 female type (Balanced audio 2 ch)  
REFERENCE THRU/OUT: BNC type (Black Burst)

##### Other Connectors

USB HOST: USB A type (USB2.0) (for USB flash drive)  
REMOTE: RJ45 type, 100BASE-TX

#### Others

##### Functions

EDID Emulator  
Genlock  
Preset Memory x 8

##### Display

Graphic LCD 256 x 64 dots

##### Power Supply

AC Adaptor

##### Current Draw

2.3 A (DC 24V)

##### Power Consumption

55 W

##### Operation Temperature

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

##### Dimensions

210 (W) x 284.5 (D) x 43 (H) mm

8-5/16 (W) x 11-1/4 (D) x 1-3/4 (H) inches

Weight (excluding Accessories)

2.2 kg

4 lbs 14 oz

Accessories

Owner's Manual

Leaflet "USING THE UNIT SAFELY"

AC adaptor

Power cord

Rubber feet (4 pcs.)

Rack mount angle set

DC Plug Stopper

\* 0 dBu = 0.775 Vrms