AV-UHS500
Live Switcher

Panasonic
BUSINESS

4K/12G-SDI Compatible Compact Live Switcher
This feature-rich, multi-format switcher for 4K and HD productions extends Panasonic’s legacy of producing high-quality, reliable switchers. With its compact, integrated body, this live switcher is equipped with many functions found in high end models and delivers 4K video production with the same operability as HD. In addition to fixed installations such as university lecture halls and corporate conference rooms, the AV-UHS500 is well suited for remote production. Designed for easy portability and simple set up it should become a favorite tool for staging and other event production.

- Versatile 12G-SDI/3G-SDI/HDMI interface support
- UHD/HD multi-format support
- Expanded functions with two optional unit slots
- Standard number of inputs/outputs: 8 inputs / 7 outputs, Maximum number of inputs/outputs (with optional boards): Maximum 16 inputs / Maximum 15 outputs
- Five keyers for excellent image effects
- Up/down conversion function, HDR/SDR conversion function and ITU-R BT.2020/BT.709 conversion function; Scaler function; Color correction function support
- Four AUX buses AUX 1 and 2 have MIX transition functions, DSK 1 and 2 can also be assigned
- Camera control for Panasonic Integrated PTZ Cameras

Achieving 4K Video Production with a Compact, Versatile Switcher
Exceptional Support for Mixed 4K and HD Operation

12G-SDI/3G-SDI/HDMI Support

12G-SDI that can transmit 4K video with a single coaxial cable is supported as standard, and it provides easy setup and operation with high-quality 4K video production. In addition, HDMI support allows direct input of data from a PC for live production such as during seminars and lectures without the need for a separate HDMI converter.

UHD/HD Multi-Format Support

Multiple 4K/3G/HD formats are supported, including 2160p/59.94p and 1080p/59.94p.

UHD/HD function comparison

<table>
<thead>
<tr>
<th>Function</th>
<th>AV-UHS5500</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4K(UHD) mode</td>
</tr>
<tr>
<td>DVE</td>
<td>Option</td>
</tr>
<tr>
<td>Clip</td>
<td>1ch</td>
</tr>
<tr>
<td>Still</td>
<td>1ch</td>
</tr>
</tbody>
</table>

Frame Synchronizer for All Inputs

All input channels feature a built-in frame synchronizer. The Genlock function also supports synchronizing systems based on external sync signals (Black burst or Tri-level).

Video Input/Output Support

Standard input

<table>
<thead>
<tr>
<th>Function</th>
<th>SDI input</th>
<th>HDMI input</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 2 3 4 5 6 7 8 1 2</td>
<td></td>
</tr>
<tr>
<td>4K Up-converter</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
<tr>
<td>HD Down-converter</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
<tr>
<td>Frame synchronizer</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
<tr>
<td>Scaler</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
<tr>
<td>BT.709 ↔ BT.2020 conversion</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
<tr>
<td>HDR ↔ SDR conversion</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
<tr>
<td>Color correction</td>
<td>✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
<td></td>
</tr>
</tbody>
</table>

Optional input

<table>
<thead>
<tr>
<th>Function</th>
<th>when SDI Input Unit AV-UHS515G is used</th>
<th>when HDMI Input Unit AV-UHS515G is used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 2 3 4 1 2 3 4</td>
<td></td>
</tr>
<tr>
<td>4K Up-converter</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>HD Down-converter</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Frame synchronizer</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Scaler</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>BT.709 ↔ BT.2020 conversion</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>HDR ↔ SDR conversion</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Color correction</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
</tbody>
</table>

 optional input

<table>
<thead>
<tr>
<th>Function</th>
<th>when SDI Output Unit AV-UHS515G is used</th>
<th>when HDMI Output Unit AV-UHS515G is used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 2 3 4 1 2 3 4</td>
<td></td>
</tr>
<tr>
<td>4K Down-converter</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Scaler</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>BT.709 ↔ BT.2020 conversion</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>HDR ↔ SDR conversion</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓ ✓ ✓ ✓</td>
</tr>
</tbody>
</table>

*1: SDI input 1 and 2 and HDMI inputs 1 and 2 cannot be used simultaneously because of their exclusive functions. Select from the menu.
*2: Standard SDI inputs 1-4 only support simple conversion.
*3: The standard HDMI output only supports system format output.

Eight Standard SDI Inputs, Two Standard HDMI Inputs*

Five Standard SDI Outputs, Two Standard HDMI Outputs

The number of inputs and outputs during HD operation can be maintained in 4K. The number can also be increased if required through the use of two optional unit slots.

Number of inputs

<table>
<thead>
<tr>
<th>Number of inputs</th>
<th>12G/3G-SDI</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 inputs</td>
<td>2 inputs, standard</td>
<td>/ 8 inputs, maximum</td>
</tr>
</tbody>
</table>

Number of outputs

<table>
<thead>
<tr>
<th>Number of outputs</th>
<th>12G/3G-SDI</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 outputs</td>
<td>2 inputs, standard</td>
<td>/ 8 outputs, maximum</td>
</tr>
</tbody>
</table>

*1: SDI input is reduced by the number of HDMI input channels used. HDMI input is not compatible with CPRM (input not possible).
*2: When the optional unit is installed. For details, see page 8.
*3: The HDMI output format is the same as the system format only for video.

Various Built-in Conversion Functions, Including Up/Down Conversion

Various conversion functions are provided as standard. No external conversion box is required.

- Up/down conversion function
- HDR/SDR conversion function
- ITU-R BT.2020/BT.709 conversion function
- Scaler function
- Color correction function
Various Image Effects Achieved with Enhanced Keyer and Memory Functions

**Versatile Transitions and Effects**

In addition to standard wipe, mix, and cut transitions, a variety of DVE transitions patterns using two channels, such as reduce, slide, squeeze and 3D wipe are available in HD mode. DVE transitions can also be used in 4K by adding a 4K DVE Unit AV-UHS5M5G.

**Five Keyers**

A luminance key, linear key, chroma key, full key and PinP are provided for three channels, plus two channels of downstream key (DSK). Chroma keying employs the Primatte® algorithm, which is widely used as a plug-in for nonlinear editors. The same excellent Primatte® quality that is used worldwide for movies, TV programs, music videos and commercials is achieved by the live switcher’s real time processing.

4K mode (standard)

<table>
<thead>
<tr>
<th>Keyer</th>
<th>Luminance key</th>
<th>Linear key</th>
<th>Full key</th>
<th>Mask</th>
<th>Edge</th>
<th>Chroma key</th>
<th>PinP</th>
<th>DVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key1</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Key2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Key3</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DSK1</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DSK2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

HD mode/4K mode (when 4K DVE Unit AV-UHS5M5G is used)

<table>
<thead>
<tr>
<th>Keyer</th>
<th>Luminance key</th>
<th>Linear key</th>
<th>Full key</th>
<th>Mask</th>
<th>Edge</th>
<th>Chroma key</th>
<th>PinP</th>
<th>DVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Key1</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Key2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Key3</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DSK1</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DSK2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Video Memory**

Two inputs in HD and one input in 4K for still (STILL) or video (CLIP) images can be saved and selected as bus footage. Moving images can be recorded and played back with key signals (with the 1080/59.94i format, approximately 120 seconds/3600 frames).

**Four AUX Buses, DSK 1 and 2 Can Also Be Assigned**

Two PinP buses and four AUX buses are provided. Borders and software effects can be applied to the PinP buses. In addition to cut transitions, the bus transition function (PinP and AUX buses transition effect) also enables mix transitions (AUX bus 1 and 2 only). Flexible support is achieved by combining AUX buses and M/E sections. DSK 1 and 2 can also be assigned to AUX 1 and 2.

**Various Memory Functions for Smooth Live Production**

- **Shot memory**
  
  Up to 100 background transition patterns, PinP sizes, border widths and other video effects can be registered and recalled. Effect dissolve can be set to ensure smooth switching from the current image to the image or operation registered in the shot memory.

- **Event memory**
  
  Up to 64 image effects in sequence can be registered and played back on a timeline using the event memory function. This allows highly expressive consecutive effects to be easily and smoothly executed. Up to 100 event memories can be registered.

- **Macro memory**
  
  This function allows recording and playback of a series of operations on the Control Panel. It can also record and playback setting information, such as input/output and keyers, allowing video effects involving complicated operations to be executed easily. Macro memory playback is executed by assigning to the crosspoint buttons.

**SDHC/SDXC Memory Card Slot**

Video memory, shot memory data, event memory data, and setup data can be saved using an SDHC/SDXC memory card.

* SDXC memory card support is planned with a firmware update in spring 2020.
PTZ Camera Control Function

The PTZ camera control function enables 4K/HD Integrated Cameras to be controlled from the AV-UHS500.

* See page 8 for supported 4K/HD Integrated Cameras.

PTZ camera control

- Number of cameras controlled: 8 cameras, standard / 16 cameras, maximum (with input from optional unit)
- Camera control: Pan, tilt, zoom, focus, iris, preset store, recall, scope, preset speed, AWB mode, AWB execution, paint, OSD menu

Two MultiViewer Functions

Two independent MultiViewer output functions are provided as standard, enabling the display of up to 16 split screens (a total of 10 patterns) on a single screen.

- MultiViewer layout can be selected from a total of 10 patterns, including four split, five split (two patterns), six split (two patterns), nine split, 10 split (two patterns), 12 split*, and 16 split.
- Source names, tallies, audio level meters, clock and safety markers can be displayed.
- Select between fit mode, in which the video image is the same size as the split frame, and squeeze mode, which places the source name and level meter outside the image.

* Does not operate at 720p.
178 mm (7 inches) LCD Monitor with Excellent Visibility and Easy-to-Use Control Panel

Block Diagram

## Input Signal Support

<table>
<thead>
<tr>
<th>Resolution</th>
<th>4K</th>
<th>2K</th>
</tr>
</thead>
<tbody>
<tr>
<td>2160p</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1080p</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1080PsF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>720p</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### System Format

**4K**
- 2160p: 59.94Hz, 50.00Hz, 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz
- 1080p: 59.94Hz, 50.00Hz, 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz
- 1080PsF: 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz
- 720p: 59.94Hz, 50.00Hz, 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz

**2K**
- 2160p: 59.94Hz, 50.00Hz, 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz
- 1080p: 59.94Hz, 50.00Hz, 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz
- 1080PsF: 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz
- 720p: 59.94Hz, 50.00Hz, 29.97Hz, 25.00Hz, 24.00Hz, 23.98Hz

### Input Signal Support

#### Input Signal 2160/59.94p
- 2160/50.00p
- 2160/29.97p
- 2160/25.00p
- 2160/24.00p
- 2160/23.98p

#### Input Signal 2160/50p
- 2160/50.00p
- 2160/25.00p
- 2160/24.00p
- 2160/23.98p

#### Input Signal 2160/29.97p
- 2160/25.00p
- 2160/24.00p
- 2160/23.98p

#### Input Signal 2160/25p
- 2160/24.00p
- 2160/23.98p

#### Input Signal 2160/24p
- 2160/23.98p

#### Input Signal 2160/23.98p

### System Configuration

- **4K Studio Camera**
  - AK-UC4000GJ/UC4000GSJ
  - Camera Control Unit (CCU)
  - AK-UCU600PJ/UCU600EJ/UCU600PSJ/UCU600ESJ

- **4K Multi Purpose Camera**
  - AK-UB300GJ

- **4K Integrated Camera**
  - AW-UE150W/K

- **4K/12G Monitor**
  - Professional Display (MV1)

- **Professional Display (MV2)**

- **PC**

- **LAN (control signals) Tally (GPI)**

- **3G /12G-SDI**

- **3G /12G-SDI Tally (GPI)**

- **3G /12G-SDI Tally (IP)**

- **12G-SDI**

- **HDMI**

- **LAN (control signals) Tally (GPI)**

- **Network Switch**

- **AV-UHS500**

- **LAWO LBP SNAP Series Remote Operation Panel**

---

* : Without format conversion  ○ : With format conversion

* Support is planned with a firmware update in spring 2020.
Expandable with a Variety of Functions as Required Using Five Optional Units

Optional Units

SDI Input Unit
AV-UHS5M1G
12G/3G-SDI x 4 inputs
Frame synchronizer, up-conversion, color correction, SDR/HDR conversion and ITU-R BT.709/BT.2020 conversion compatible

SDI Output Unit
AV-UHS5M2G
12G/3G-SDI x 4 outputs
Down-conversion, HDR/SDR conversion and ITU-R BT.2020/BT.709 conversion compatible

HDMI Input Unit
AV-UHS5M3G
HDMI 2.0 x 3 inputs
Scaler for each channel

HDMI Output Unit
AV-UHS5M4G
HDMI 2.0 x 3 outputs
Scaler for each channel

4K DVE Unit
AV-UHS5M5G
DVE function in 4K mode
(Background transition x 1, key transition x 1)

Related Equipment

SDI Input Unit
AV-UHS5M1G
12G/3G-SDI x 4 inputs
Frame synchronizer, up-conversion, color correction, SDR/HDR conversion and ITU-R BT.709/BT.2020 conversion compatible

SDI Output Unit
AV-UHS5M2G
12G/3G-SDI x 4 outputs
Down-conversion, HDR/SDR conversion and ITU-R BT.2020/BT.709 conversion compatible

HDMI Input Unit
AV-UHS5M3G
HDMI 2.0 x 3 inputs
Scaler for each channel

HDMI Output Unit
AV-UHS5M4G
HDMI 2.0 x 3 outputs
Scaler for each channel

4K DVE Unit
AV-UHS5M5G
DVE function in 4K mode
(Background transition x 1, key transition x 1)

Related Equipment

Supported cameras
4K Model
AW-UE150W/K, AW-UE70W/K, AW-UN70W/K
HD Model
Outdoor compatible model
AW-HR140

For details, see the Panasonic website (https://pro-av.panasonic.net/en/).

Operation-verified 3rd party devices

Lawo LBP SNAP Series
Remote Operation Panel

Contact
LAWO AG
TEL: +49 7222 1002 0
WEB: www.lawo.com
E-Mail: sales@lawo.com

* SDI input is reduced by the number of HDMI input channels used.
Specifications

**Live Switcher AV-UHS500**

### General
- **Power Supply:** AC 100 V to 240 V, 50/60 Hz
- **Current Consumption:** 1 A
- ** Ambient/Operating Temperature:** 0°C to 40°C (32°F to 104°F)
- **Storage Temperature:** 0°C to 60°C (32°F to 140°F)
- **Ambient/Operating Humidity:** 10% to 90% (no condensation)
- **Dimensions:** (W x H x D) 440 mm x 170 mm x 360 mm (17-5/16 inches x 6-11/16 inches x 14-3/16 inches) (excluding protrusions)
- **Weight:** Approx. 7 kg (Approx. 15.4 lb)

### Video Terminal
- **SDI IN 1 to SDI IN 8 Terminal:** 8 lines plus another maximum of 8 lines when using the OPTION unit
  - Connectors: BNC x 8
  - Frame synchronizer function
  - Selectors (SDI IN 1 to SDI IN 8) equipped with up-converters.
  - Connectors (SDI IN 5 to SDI IN 8) equipped with color correctors.
- **HDMI IN 1 to HDMI IN 2 Terminals:** 2 lines (plus another maximum of 6 lines when using the OPTION unit)
- **HDMI Input Unit AV-UHS5M3G**
  - Connectors: BNC x 4
  - Down-converter
  - Frame synchronizer function
  - Connectors: BNC x 2
- **Output Terminals**
  - **SDI OUT 1 to SDI OUT 5 Terminals:** 6 lines plus another maximum of 6 lines when using the OPTION unit
  - Connectors: BNC x 5
  - Down-converter to 1080p60 Color space conversion function
  - PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned.
- **HDMI OUT 1 to HDMI OUT 2 Terminals:** 2 lines (plus another maximum of 6 lines when using the OPTION unit)
  - Connectors: BNC x 2
  - Not support Scaler (Only system format is available)
- **SDI Output Unit AV-UHS5M2G**
  - Connectors: BNC x 4
  - Down-converter
  - Color space conversion function
  - PGM, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned.
- **HDMI Output Unit AV-UHS5M5G**
  - Connectors: BNC x 4

### Control Terminal
- **LAN Terminal**
  - Compatible with 1000BASE-TX and AUTO-MDIx (For IP control)
  - Connecting cable: LAN cable (CAT5E), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended
  - Connectors: RJ-45
- **TALLY API Terminal**
  - INPUT: 8 inputs general-purpose, photosensor sensing
  - OUTPUT: 19 outputs; selected from RGB signals
  - Alarm 1 output, open collector output (negative logic)

### OPTION Unit

#### General
- **Power Supply:** DC 12 V
- **Power Consumption:** 15 W 1.2 A
- **Ambient/Operating Temperature:** 0°C to 40°C (32°F to 104°F)
- **Ambient/Operating Humidity:** 10% to 90% (no condensation)
- **Dimensions:** (W x H x D) 112 mm x 42 mm x 166 mm (4-13/32 inches x 1-21/32 inches x 6-17/32 inches) (excluding protrusions)
- **Weight:** Approx. 371 g (Approx. 0.82 lbs.)

#### SDI Input Unit AV-UHS5M1G
- **SDI IN 1 to SDI IN 4 Terminals:** 4 lines
- **Connectors:** BNC x 4
- **Frame synchronizer function**
- **Up-converter fitted**
- **Color space conversion function**
- **Color corrector fitted.

#### SDI Output Unit AV-UHS5M2G
- **SDI OUT 1 to SDI OUT 4 Terminals:** 4 lines
- **Connectors:** BNC x 4
- **Down-converter**
- **Color space conversion function**
- **Pgm, PVW, CLN, ME PGM, MV1 to MV2, AUX1 to AUX4, Key Out can be assigned.

#### HDMI Input Unit AV-UHS5M5G
- **HDMI IN 1 to HDMI IN 3 Terminals:** 3 lines
  - Video format inputs: 720p/59.94 Hz, 720p/50 Hz, 1080i/59.94 Hz, 1080i/50 Hz, 1080p/23.97 Hz, 1080p/25 Hz, 1080p/24 Hz, 1080i/23.97 Hz, 1080i/25 Hz, 1080p/24 Hz, 1080i/25 Hz, 1080p/25 Hz
  - HD-SDI HD Serial digital, SMPTE292M standard complied with
  - 3G-SDI 3G Serial digital, SMPTE292 standard complied with (Level-A/Level-B)
  - HD-SDI HD Serial digital, SMPTE292M standard complied with
- **HDMI Output Unit AV-UHS5M3G**
  - Video format inputs: 720p/59.94 Hz, 720p/50 Hz, 1080i/59.94 Hz, 1080i/50 Hz, 1080p/23.97 Hz, 1080p/25 Hz, 1080p/24 Hz, 1080i/23.97 Hz, 1080i/25 Hz, 1080p/24 Hz, 1080i/25 Hz, 1080p/25 Hz
  - HD-SDI HD Serial digital, SMPTE292M standard complied with
  - 3G-SDI 3G Serial digital, SMPTE292 standard complied with (Level-A/Level-B)
  - HD-SDI HD Serial digital, SMPTE292M standard complied with

### As of February, 2020
* The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

* SDHC and SDXC Logos are trademarks of SD-3C,LLC.

* Primatte® is a registered trademark of IMAGICA DIGIX Inc. The copyright of Primatte® belong to IMAGICA DIGIX Inc. The patents for Primatte® belong to IMAGICA DIGIX Inc.

* Specifications are subject to change without notice.