Highly Versatile, Compact High Definition Camera for Broadcasting and Professional Video Uses. Compatible with All HD Video Formats.
The AK-HC1500 delivers clear, high-contrast images thanks to a 14-bit A/D converter and a new adaptive function that varies the gamma correction to match the contrast within the image by Dynamic Range Stretch (DRS) function. In addition to the conventional matrix circuit, there is the 12-vector variable matrix masking circuit that separately optimizes saturation and hue. A hue preservation circuit is also provided to prevent color loss in highlight areas.

Blue channel sensitivity has been improved approximately 3 dB achieving a better response ratio. Even deep-blue colors can be reproduced with vivid chrominance and significantly reduced noise.

Developed by Panasonic, this advanced CCD offers improved on-chip lens performance to achieve a standard sensitivity of F10.0 at 2 000 lx and a smear level of less than -130 dB.

Panasonic’s single-channel transfer system and spatial-offset processing technologies improve signal modulation depth, thus reducing moire.

With spatial-offset processing, green samples are offset, allowing motion in the object to be more faithfully reproduced.

With spatial-offset processing, the depth of modulation of high-frequency signals is greatly improved.

The AK-HC1500 delivers clear, high-contrast images thanks to a 14-bit A/D converter and a new adaptive function that varies the gamma correction to match the contrast within the image by Dynamic Range Stretch (DRS) function. In addition to the conventional matrix circuit, there is the 12-vector variable matrix masking circuit that separately optimizes saturation and hue. A hue preservation circuit is also provided to prevent color loss in highlight areas.

Before correction

When the gamma curve is adjusted based on bright areas of the image, black blocking occurs.

After correction

When adjustment is based on dark areas, some image parts are washed out.

Photos show an approximate image.

Clear, sharp reproduction of both bright and dark areas.
The AK-HC1500 debuts as the first multi-purpose camera to feature a variable frame rate function and a cine gamma curve. The variable frame rate allows the overcranking and undercranking speed effects that film cameras provide, and the cine gamma curve reproduces images with a tone similar to film recordings. With the AK-HC1500, you can create productions that closely replicate the cine-like feeling and expressivity of film productions.

**Features variable frame rate and a cine gamma curve**

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- You can vary the number of frames per second (4 fps to 60 fps), just as you can with a film camera. This lets you use the distinctive undercranking and overcranking speed effects of film cameras.
- Thanks to a special cine gamma curve, the CCD can produce pictures with the same kind of tonal beauty, natural gradation and rich colors you get with film recordings.

**CCD accumulative drive allows high sensitivity**

- In addition to the conventional gain-up circuit, the AK-HC1500 uses CCD accumulation and horizontal/vertical addition to make possible a gain increase of up to +72 dB (for recording in illumination of at least 0.015 lx).
- CCD progressive drive minimizes afterimages from the accumulative drive process.

**Minimizing environmental impact through low power consumption and a compact footprint**

Fewer parts, low power consumption and a compact design make the AK-HC1500 an environment-friendly choice.

- The AK-HC1500 uses a newly designed CCD drive circuit that requires low power consumption and a DSP that consumes little power.
- Fewer parts are used, and the weights of structural parts have been reduced.
- Small size is a big advantage in cameras used for information gathering, set in a housing, or mounted on a pan-tilt head.

**Yet more features**

- Option slot for expansion. The rear option slot lets you add a variety of optional terminal boards making the AK-HC1500 suitable for use in a wider range of studio applications and with different kinds of network connections. You can also mount a down converter, analog output unit or other equipment.
- The Electronic Extender function, used in addition to the conventional lens extender, magnifies the image by 2x.
Remote Controller

The right size and functions to satisfy all your remote studio and live coverage needs.

Remote Operation Panel
AK-HRP900

The half rack size panel offers high mobility and fully controllable camera parameters and lens zoom/focus/iris.

- Full control of camera settings
- Gen-lock signal can be sent to the camera.
- Zoom/Focus/Iris control with five preset buttons
- SD memory card for camera setting data (ND/CC filter position, Master gain, Shutter, Iris Auto/Manual, CAM/BAR/TEST selection)
- Camera power can be supplied through an AK-HRP900 from an AW-PS505A.
- Standard multi-core control cable: 5 m (16.4 ft.)
- Half rack mount size

*Tally signal (HIROSE; HR10A-7R-4P)

System tally input: Tally signal (2-pin connector block)

| Switch functions | Power, Preset memory, Preset position selection, Speed polarity change, Menu ON/OFF, Menu operation, Operation panel active, Scene file selection, Mode selection, Auto white start, Auto black start, ND filter selection, CC filter selection, Gain selection, Shutter selection, Lens iris auto/manual selection, Indication change, Zoom operation lever direction change, Focus adjust direction change |
| Adjustment functions | Iris, Focus, Zoom, R/B gain, Master pedestal, R/B pedestal |

- Cable length: Standard multi-core control cable: 5 m (16.4 ft.)
- Power supply: DC12 V
- Power consumption: Approx. 5 W
- Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
- Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)
- Dimensions (WxHxD): 210 mm x 57 mm x 176 mm (8-1/4" x 2-1/4" x 6-15/16")
- Weight: Approx. 1.5 kg (3.3 lbs)

Remote Operation Panel
AK-HRP150

The 1/4 rack size panel can be used for easily adjusting full camera parameters.

- Full control of camera settings
- Gen-lock signal can be sent to the camera.
- Camera power can be supplied through an AK-HRP150 from an AW-PS505A.
- Standard multi-core control cable: 5 m (16.4 ft.)
- 1/4 rack mount size

| System tally input | Tally signal (HIROSE, HR10A-7R-4P) |
| Adjustment functions | Iris, R/B gain, Master pedestal, R/B pedestal |

- Cable length: Standard multi-core control cable: 5 m (16.4 ft.)
- Power supply: DC12 V
- Power consumption: Approx. 3 W
- Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
- Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)
- Dimensions (WxHxD): 92 mm x 65 mm x 255 mm (3-5/8" x 2-9/16" x 10-1/8")
- Weight: Approx. 1.2 kg (2.65 lbs)

Remote Operation Panel
AW-CB400

The unit can operate up to five cameras with fully camera controllability.

- Controls five cameras
- Full camera control
- DC12 V operation
- Tally/Intercom function

*Power is supplied from AW-RP400.

Power supply AW-PS505A is required for controlling cameras directly (Maximum control distance: 1 000 m (3 280 ft.))

| Power supply | DC12 V |
| Power consumption | Approx. 3.8 W |
| Dimensions (WxHxD) | 100 mm x 85 mm x 266 mm (4" x 3-3/8" x 10-1/16") |
| Weight | Approx. 1.4 kg (3.06 lbs) |
| Accessories | Plastic tilt to finger connection cable (10 m (32.8 ft.)) |
Multiple types of pan-tilt heads are available for professional camera applications both indoors and outdoors.

### Indoor

#### High Performance Pan-tilt Head

**AW-PH400**

- **Pan range**: 400°
- **Tilt range**: 300°
- **Maximum pan/tilt speed**: 90°/sec
- **Stop accuracy**:
  - Maximum: 30 seconds
  - Approx. 0.008 degrees
- **Noise**: Under NC35 (at 30°/sec)
- **Maximum load**: Approx. 8 kg (17.6 lbs)
- **10 tracing memories** (Maximum time: 300 seconds)
- **RS-232C controllable** (Through AW-RP400)
- **Tally lights** are available.

#### A high performance, high speed, quiet pan-tilt head

<table>
<thead>
<tr>
<th>Power supply</th>
<th>AC120 V to AC220 V to 240 V</th>
<th>Maximum speed</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Approx. 145 W</td>
<td>90°/sec (30°/sec with a teleprompter)</td>
<td>371 mm x 534 mm x 188 mm (12-3/8” x 21” x 7-3/8”)</td>
<td>Approx. 10.2 kg (22.5 lbs)</td>
</tr>
</tbody>
</table>

#### Example of use

With AK-HC1500

#### Outdoor Pan-tilt Head

**AW-PH405**

- **Pan range**: 300°
- **Tilt range**: 300°
- **Maximum load**: 15 kg (33.1 lbs)
- **Accuracy**: ±3 minutes (0.05 degrees)
- **Stop accuracy**: Maximum 30 seconds
- **Maximum control distance**: 500 m (1,640 ft.)

#### A compact pan-tilt head for heavy load

<table>
<thead>
<tr>
<th>Power supply</th>
<th>AC120 V to AC220 V to 240 V</th>
<th>Maximum speed</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Approx. 120 W</td>
<td>1 500 m (4,920 ft.)...AW-RP400 + AW-IF400 **</td>
<td>519 mm x 416 mm x 168 mm (20-1/4” x 16-3/8” x 6-5/8”)</td>
<td>Approx. 10.0 kg (22.0 lbs)</td>
</tr>
</tbody>
</table>

#### Example of use

With AK-LZ20M85

#### Indoor Pan-tilt Head

**AW-PH360**

- **Pan angle**: 300°
- **Tilt angle**: 190°
- **High performance**: Quiet (Under NC30)
- **Pan speed**: (30°/sec) Tilt speed (25°/sec)
- **Accuracy**: ±3 minutes (0.05 degrees)
- **Smooth starts and stops** with soft landing function
- **50 preset memories**

#### A compact pan-tilt head with a wide pan-tilt range

<table>
<thead>
<tr>
<th>Power supply</th>
<th>DC12 V</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Approx. 1.3 A (pan-tilt head only)</td>
<td>310 mm x 244 mm x 192 mm (12-1/8” x 9-7/8” x 7-9/16”)</td>
<td>Approx. 3.5 kg (7.7 lbs)</td>
</tr>
</tbody>
</table>

#### Example of use

With AK-HC1500 and AK-LZ22M85

#### Outdoor Pan-tilt Head

**AW-PH650**

- **Pan angle**: 320°
- **Tilt angle**: 50° - 90°
- **High performance**: Quiet (Under NC40)
- **Pan speed**: (20°/sec) Tilt speed (20°/sec)
- **In addition to zooming, panning and tilting functions, heater, wiper and defroster functions** for the housing can also be controlled by the controller.

#### Waterproof design for stable shooting despite the rain

- **50 preset memories**
- **Maximum load**: Approx. 10 kg (22 lbs)
- **Maximum control distance**: 1,000 m (3,280 ft.)

#### Power Supply

**AW-PS300A**

<table>
<thead>
<tr>
<th>Power supply</th>
<th>AC120 V to AC220 V to 240 V</th>
<th>Dimensions (W x H x D)</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Approx. 3.5 A</td>
<td>210 mm x 51 mm x 275 mm (8-1/4” x 2” x 10-13/16”)</td>
<td>Approx. 2.2 kg (4.8 lbs)</td>
</tr>
</tbody>
</table>

#### Example of use


**AW-PS300A** requires Power Supply AW-PS300A.

The AW-PH650 is available only with the use of the AK-LZ22M85.

#### Accessories

- **Pan-tilt cable**: Approx. 0.4 m (1.312 ft.)
- **Camera cable**: Approx. 0.4 m (1.312 ft.)
- **Control cable**: Approx. 10 m (32.8 ft.)
- **Power cable**: Approx. 30 m (98 ft)

#### Additional Information

- **Tally lights**: Available.
- **RS-232C controllable (through Panasonic controllers)**
- **Professional motor drive lenses and broadcast ENG lenses** can be connected.
- **Teleprompter output**
- **Diagonal motion possible**
- **Memory of last position**
- **Memory retention**
- **Power Supply** can be installed in pan-tilt head.
- **Memory retention** is available only when using the pan-tilt head controller AW-RP655*.
- **Diagonal motion possible**
- **Memory retention**
- **Power Supply** can be installed in pan-tilt head.
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- **Power Supply** can be installed in pan-tilt head.
Pan-tilt Control Panel

Versatile pan-tilt systems for controlling multiple cameras, designed to satisfy a wide range of applications.

**Multi-function Controller**
**AW-RP655**

- Controls maximum five cameras and five pan-tilt heads without hub unit.
- Full camera control by LCD menu.
- Control speed can be adjusted by the angle of the operation lever, high speed and low speed mode can be switched.
- 50 pre-set memories per camera.
- Ergonomically designed joystick controller.
- Maximum 300 seconds tracing memory.
- Maximum control distance from controller to pan-tilt head: 1 000 m (3 280 ft.)

This controller can control an AW-PH400 by using a protocol converter (AW-IF400).

- The motion direction of the operation lever can be reversed.
- Two additional controllers can be connected.
- This controller can be placed on a desk or mounted in a rack.
- Power Supply AW-PS505A is required.

<table>
<thead>
<tr>
<th>Power supply</th>
<th>DC12 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Approx.9.0 W</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>420 mm x 52 mm x 220 mm (16-1/2” x 2-1/16” x 8-11/16”)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 3.5 kg (7.7 lbs)</td>
</tr>
<tr>
<td>Accessory</td>
<td>Rack mounting adapters (5U) x 2, Mounting screws (M4 x 8 mm) x 4</td>
</tr>
</tbody>
</table>

**Compact size controller**
**AW-RP555**

- Controls up to five cameras and five pan-tilt heads.
- Full camera control by camera menu.
- Speed of controls can be adjusted by the angle of the operation lever.
- 10 pre-set memories per camera.
- Maximum control distance from pan-tilt head to controller: 1 000 m. (3 280 ft.)

This controller can control the AW-PH400.

- With a protocol converter (AW-IF400), this controller can control the AW-PH400.
- The motion direction of the operation lever can be reversed or changed.
- This controller can be placed on a desk or mounted in a rack.
- (The position of input and output connectors can be changed by 90 degrees)
- Power Supply AW-PS505A is required.

<table>
<thead>
<tr>
<th>Power supply</th>
<th>DC12 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Approx.9.0 W</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>210 mm x 58 mm x 177 mm (8-1/4” x 2-5/16” x 7”)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 1.4 kg (3.08 lbs)</td>
</tr>
<tr>
<td>Accessory</td>
<td>Rack mounting adapters (5U) x 2, Mounting screws (M4 x 8 mm) x 4</td>
</tr>
</tbody>
</table>
Pan-tilt Controller

**AW-RP400**

- Changeable zoom/focus controller (joystick/seesaw)
- Joystick with camera roll control
- 50 preset positions
- 5 pan-tilt heads control
- Zoom/Focus/Pan/Tilt speed control
- Tally/Intercom function
- 10 minutes tracing memory (50 seconds x 10 positions)*
- RS232C interface
- Maximum control distance: 500 m (1 640 ft.)**
- Cross control by two controllers
- Camera control inputs (AW-CB400)
- +DC12 V operation (Power Supply AW-PS505A is required.)

* This function does not work for AW-PH405/PH650.
** Maximum 1 000 m. (3 280 ft) using the Protocol Converter AW-IF400.

Seesaw controller
Joystick controller can be changed for
seesaw controller. (Standard accessory)

High performance controller for professional and broadcast use

- Changeable zoom/focus controller (joystick/seesaw)
- Joystick with camera roll control
- 50 preset positions
- 5 pan-tilt heads control
- Zoom/Focus/Pan/Tilt speed control
- Tally/Intercom function
- 10 minutes tracing memory (60 seconds x 10 positions)*
- RS232C interface
- Maximum control distance: 500 m (1 640 ft.)**
- Cross control by two controllers
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- RS232C interface
- Maximum control distance: 500 m (1 640 ft.)**
- Cross control by two controllers
- Camera control inputs (AW-CB400)
- +DC12 V operation (Power Supply AW-PS505A is required.)

Protocol Converter

**AW-IF400**

- High performance pan-tilt head (AW-PH400) can be controlled by controllers (AW-RP555, AW-RP655) by using this protocol converter (AW-IF400).*
- Outdoor pan-tilt head (AW-PH650) can be controlled by high performance controller (AW-RP400) by using this protocol converter (AW-IF400).*
- By using protocol converter AW-IF400, control distance between AW-PH400 & AW-RP400 can be extended up to 1 000 m (3 280 ft.)

* Maximum control distance: 500 m (1 640 ft.)

Availability of the tracing memory function

<table>
<thead>
<tr>
<th>AW-PH400</th>
<th>AW-PH405</th>
<th>AW-PH360</th>
<th>AW-PH650</th>
</tr>
</thead>
<tbody>
<tr>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>AW-RP555</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>AW-RP655</td>
<td>-</td>
<td>-</td>
<td>•</td>
</tr>
<tr>
<td>AW-RP400</td>
<td>-</td>
<td>•</td>
<td>-</td>
</tr>
</tbody>
</table>

- When you use it with AW-IF400, activating the extended distance transmission function is required.

Cables

<table>
<thead>
<tr>
<th>Name</th>
<th>Number</th>
<th>Connection equipments</th>
<th>Length</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pan-tilt cable kit</td>
<td>AW-CA-K4H1</td>
<td>AK-HC1500</td>
<td>AW-PH400</td>
<td>0.7 m</td>
</tr>
<tr>
<td>Pan-tilt cable</td>
<td>AW-CA15H29</td>
<td>AK-HC1500</td>
<td>AW-PH400</td>
<td>0.7 m</td>
</tr>
<tr>
<td>Lens cable for Fujinon ENG lens</td>
<td>AW-CA4FLZ</td>
<td>Fujinon ENG (HD) lens</td>
<td>AW-PH400</td>
<td>0.8 m</td>
</tr>
<tr>
<td>Lens cable for Canon digital lens</td>
<td>AW-CA4DLZ</td>
<td>Canon ENG digital lens</td>
<td>AW-PH400</td>
<td>0.8 m</td>
</tr>
<tr>
<td>Lens cable for Canon analog lens</td>
<td>AW-CA4ALZ</td>
<td>Canon ENG analog lens</td>
<td>AW-PH400</td>
<td>0.8 m</td>
</tr>
<tr>
<td>Pan-tilt extension cable</td>
<td>AW-CA24T24</td>
<td>AW-PH650</td>
<td>AK-HRP150 etc.</td>
<td>20 m</td>
</tr>
</tbody>
</table>

**AW-PH400**

**AW-PH405**

**AW-PH650**

**AW-RP555**

**AW-RP655**

**AW-RP400**

**AW-RP655**

**AW-RP555**

**AW-RP400**

**AW-PH650**

**AW-PH360**

**AW-PH400**

**AW-PH405**

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**AW-PH405**

**AW-PH650**

**AW-PH360**

**AW-PH400**

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**AW-PH360**

**AW-PH400**

**AW-PH405**

**AW-PH650**

**AW-PH360**
Remote studio system

**Content production at small, cost effective studios**

**Key points**
- A total of five cameras/pan-tilt heads can be controlled by one controller.
- A teleprompter can be installed on the pan-tilt head (AW-PH405).
- Quiet pan-tilt motion for shooting in a quiet studio.

**Key products**
- Camera Head AK-HC1500
- HD Zoom Lens
- Indoor Pan-tilt Head AW-PH405
- Pan-tilt Controller AW-RP400
- Remote Operation Panel AW-CB400
- Power Supply AW-PS505A
- Pan-tilt Control Cable AW-CA15H29
- Protocol Converter AW-IF400
- Color Production Monitor
- Teleprompter

HD video conferencing system

**Quiet, accurate pan-tilt motion and high quality HD video images for video conferencing**

**Key points**
- A total of five cameras/pan-tilt heads with 50 preset positions can be controlled by one controller.
- High quality HD video images can be provided.
- Maximum control distance is 1000 m. (3280 ft).

**Key products**
- Camera Head AK-HC1500
- 20x Zoom Lens AK-LZ20M85
- Indoor Pan-tilt Head AW-PH360
- Pan-tilt Controller AW-RP655
- Power Supply AW-PS505A
- Pan-tilt Control Cable AW-CA15H29
Sports event relays

High speed and accurate camera operation for sports shooting

Key points
• High speed (90°/s) and accurate pan-tilt operation for sports event relays
• AW-RP400’s zoom/focus control lever can be changed to a seesaw type controller.
• Maximum control distance is 1,000 m (3,280 ft.) using a protocol converter AW-IF400.

Key products
AK-HC1500  AW-PH400
AW-RP400  AK-HRP150

Special surveillance system

High sensitivity HD camera AK-HC1500 allows shooting in dim light conditions.

Key points
• Maximum sensitivity of AK-HC1500 is 0.015 lx (F1.4/68 dB gain).
• 720p progressive scan high quality images for analyzing animal behavior with a PC
• Quiet, high speed pan-tilt head for following animal behavior

Key products
AK-HC1500  AW-PH400
AW-RP400  AW-CB400

*AK-HRP900 is not available in PAL (50 Hz) area. (Please ask to local Panasonic sales company for detail information.)
System example

Weather information camera

High quality images can be provided in any weather conditions.

Key points
- All weather camera/pan-tilt system with waterproof, outdoor pan-tilt head
- Maximum control distance between AW-RP655 and AW-PH650 is 1 000 m (3 280 ft.)
- Maximum 42 times zoom lens can be put in the outdoor housing.

Key products
- AK-HC1500
- AW-PH650
- AW-RP655
- AK-HRP150
- Camera Head AK-HC1500 ................. 1
- HD Zoom Lens ........................................ 1
- Outdoor Pan-tilt Head AW-PH650 .......... 1
- Pan-tilt Controller AW-RP655 ............. 1
- Remote Operation Panel AK-HRP150 ......... 1
- Power Supply AW-PS505A ..................... 2

Image analysis camera

High quality progress video can be provided for analyzing images using a PC.

Key points
- The AK-HC1500 can output 720p high quality progressive video.
- Maximum control distance between an AW-RP655 and AW-PH400 is 1 500 m (4 920 ft.)*
- Maximum 42 times zoom lens can be housed in all weather proof outdoor housing.

Key products
- AK-HC1500
- AW-PH400
- AW-RP400
- AK-HRP150
- Camera Head AK-HC1500 ................. 1
- HD Zoom Lens ........................................ 1
- Outdoor Pan-tilt Head AW-PH400 .......... 1
- Pan-tilt Controller AW-RP400 ............. 1
- Remote Operation Panel AK-HRP150 ......... 1
- Power Supply AW-PS505A ..................... 3
- Protocol Converter AW-IF400 ............... 1

* An AW-RP655 can control an AK-HC1500 without an AK-HRP150 or AK-HRP900.
** AK-HRP900 is not available in PAL (50 Hz) area.
*** An accessory cable may be used for the AK-HRP900.
**** An accessory cable may be used for the AK-HRP900.
***** An accessory cable may be used for the AK-HRP900.
****** An AW-PH650 includes a power supply.
******* An AW-PH400 includes a power supply.
******** AK-HRP900 is not available in PAL (50 Hz) area. (Please ask to local Panasonic sales company for detail information.)
********* An accessory cable may be used for the AK-HRP900.
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Compact, High-Performance, Multi-Format Live Switcher with Multi-view display

- Multi-format HD/SD compatibility for worldwide use
- Built-in frame synchronizers for versatile operation
- Built-in HD-SDI interfaces with DVI, component, and SDI options for up to eight inputs and eight outputs
- The main unit and control pan are integrated in a compact body
- Multi-view display preview on a single monitor
- Multiple effects for stunning results

**Multi-format Live Switcher**

**AV-HS400**

For more details please consult a separate brochure.
Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCD</td>
<td>1/2&quot; 1-megapixel IT-3CCD</td>
</tr>
<tr>
<td>Image sensing method</td>
<td>GBR Image sensing method</td>
</tr>
<tr>
<td>Total number of pixels</td>
<td>1,370 (H) x 744 (V)</td>
</tr>
<tr>
<td>Effective number of pixels</td>
<td>1,280 (H) x 720 (V)</td>
</tr>
<tr>
<td>Optical prism</td>
<td>F1.4 Prism</td>
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<tr>
<td>Optical filter</td>
<td>(ND) 100%, 25%, 6.3%, 1.6%</td>
</tr>
<tr>
<td>Lens mount</td>
<td>2/3&quot; Bayonet type</td>
</tr>
<tr>
<td>Output format</td>
<td>1080: 60i/50i/30i/25i/24i/23.98i/24p, 720: 60i/50i/25i/24i/23.98i/24p</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>F10.0 at 2.00 ft, 3.200 ft, white reflection rate 89.9%</td>
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<tr>
<td>Minimum illumination</td>
<td>0.016 lx (F1.4 / 68 dB)</td>
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<tr>
<td>Gain</td>
<td>72 dB</td>
</tr>
<tr>
<td>S/N</td>
<td>54 dB</td>
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<tr>
<td>Smear</td>
<td>Less than -150 dB</td>
</tr>
<tr>
<td>M.T.F.</td>
<td>45% (27.5 MHz, 720 p / 60i)</td>
</tr>
<tr>
<td>Synchronize system</td>
<td>Internal and external synchronization (Tri-level SYNC/Black Burst)</td>
</tr>
<tr>
<td>Input</td>
<td>GAIN/LOG, BLC, F1.4, Interface: Mini D-sub 15pin terminal</td>
</tr>
<tr>
<td>Output</td>
<td>HD-SDI: BNC x 1</td>
</tr>
<tr>
<td>Input/output</td>
<td>Lens aperture connector, lens focus connector</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C to 60°C (1°C to 140°F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-5°C to 40°C (2°C to 104°F)</td>
</tr>
<tr>
<td>Power supply</td>
<td>DC12 V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Approx. 17 W</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>Approx. 90 mm x 117 mm x 160 mm (3-9/16&quot; x 4-5/8&quot; x 6-5/16&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 1.5 kg (3.3 lbs)</td>
</tr>
</tbody>
</table>

Rear view

- Menu Control
- HD-SDI
- Gen lock
- Zoom/focus control
- Interface Mini D-sub15pin
- Option Slot
- DC=12 V

Zoom/focus connector

Remote connector

[Countries and Regions]

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- Bahamas: +1 242 322 2930
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