



**Panasonic**  
BUSINESS

# DISCOVER THE NEXT LEVEL THE 4K ULTRA HD MICRO CAMERA



## Complete and OEM Product

- » Ultra High Resolution with up to 1600 TV lines
- » 1/3 inch image sensor
- » 4K / Full HD simultaneous dual channel output
- » Various outputs HDMI or 3G/HD-SDI
- » Excellent color reproduction







# DISCOVER THE NEXT LEVEL

## THE 4K ULTRA HD MICRO CAMERA GP-UH532

### FUNCTIONALITIES

#### Realistic 4K ultra high resolution

The 4K Ultra HD micro camera provides a 4K resolution of 3840x2160 and a horizontal resolution of 1600TV lines. The camera enables outstanding sharpness, impressively true colors and flicker-free images.

#### Ultra light and compact camera head

The 1/3 inch GP-UH532 micro camera head is currently the smallest on the market. It provides high sensitivity by allowing an ease of implementation in a variety of applications.



### Unique Panasonic 3MOS

The technology enables accurate color separation of the three primary colors of light (red, green and blue) by utilizing the same technology as professional cameras in broadcasting stations. A specialized sensor allows to process each color in order to gain excellent color reproduction.

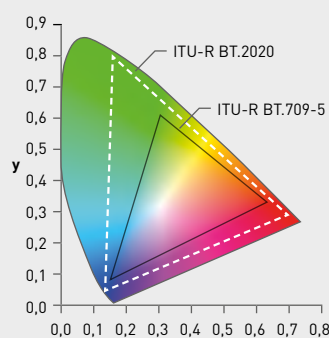


1MOS sensor



3MOS sensor

### High Colour Reproduction



The camera can output faithful colors by an 170% expanded color space (related to the comparison with other cameras). The GP-UH532 offers a selection between BT.709 for HDTV standards and BT.2020, commonly used in ultrahigh television systems for production purposes. This feature requires a BT.2020 compatible monitor.

# GP-UH532 series

## Compliance with medical safety and EMC standards

The Panasonic GP-UH532 series complies with IEC 60601-1\* (basic safety and essential performance of medical electrical equipment) and IEC 60601-1-2\* (EMC requirements for medical devices).

\* The registration status as a medical device may vary depending on the country. For further information regarding conformity please contact Panasonic.

## Main Features

- » User profile function:  
Six original profiles (on-board)
- » 3MOS sensor
- » Simultaneous 4K /2K output
- » Chemical resistant coating
- » 12-axis image adjustment function
- » ITU-R BT.2020
- » Electronic shutter
- » AE function (Auto light control)
- » Electronic sensitivity enhancement
- » Foot switch
- » Mirror function
- » Freeze function
- » 50/59.94 Hz supported



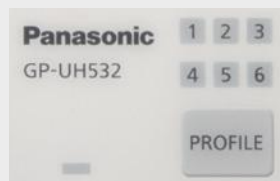
Lens is not included in GP-UH532 series

## Designed for medical environments

The design of the system as well as the button shapes allow an ease of operation in a variety of applications. Rotary volume dials are adopted and can be used to move the cursor during menu operation in addition to adjust the red and blue brightness. Furthermore, the dials can also be stored to prevent operation mistakes. Simplicity in cleaning is assured through the flat panel design.



Rotary volume dials



User Profile

## User profile function

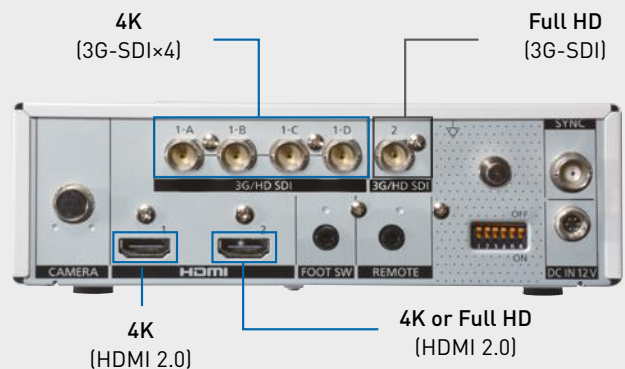
The included user profile function supports six profiles on-board. It is additionally possible to change the user configuration by inserting a USB memory drive.

## Chemical proofed coating

The chassis is treated with a chemical-proof coating to prevent the paint from peeling off while cleaning with chemicals. Therefore, deterioration of plastic parts can be avoided.

## Simultaneous output of 4K and Full HD

Simultaneous monitoring and recording with high image quality is enabled due to the ability to output 4K in HDMI and SDI. In addition to the 4K images, Full HD images can be output at the same time in order to be utilized for monitors and recorders.



## Camera cable

The camera allows a 3m, 6.6m and 15m cable. This improves installation flexibility without restricting the length. Changes to the cable length are automatically detected, which eliminates the need to change settings.



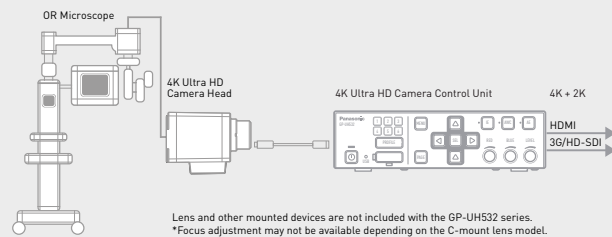
# SPECIFICATION

## GP-UH532

<b>Power supply</b>		12 V DC +/- 10%
<b>Power consumption</b>		Approx. 40 W (including camera head)
<b>Optical system</b>		Microprism optical system
<b>Image sensor</b>		1/3" type 3MOS
<b>Video output</b>	<b>HDMI output</b>	HDMI terminal x 2 (for 4K and Full HD)
	<b>SDI output</b>	BNC terminal x 5 (4 for 4K and 1 for Full HD)
<b>Video format</b>	<b>HDMI output</b>	3840x2160/59.94p, 3840x2160/50p, 1920x1080/59.94p, 1920x1080/50p, 1920x1080/50i, 1920x1080/50i
	<b>SDI output</b>	3840x2160/59.94p, 3840x2160/50p, 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i
<b>Standard illumination</b>		2000 lx (3200K, F8)
<b>Minimum illumination</b>		5 lx (F2.2, GAIN: HIGH, 30% output, screen center)
<b>S/N</b>		54 dB (Gain off)
<b>Horizontal resolution</b>		1600 TV lines at center (when 2160p output)
<b>Functions</b>		AE, electronic shutter, gain, digital sensitivity, off gain, output signal switch, user profile, white balance, detail, gamma switch, pedestal, DNR, freeze, flip, mirror, status display, white shading correction
<b>External control</b>		3.5 mm diameter stereo mini jack (3-pole serial, RS232C signal compliant)
<b>Operating temperature</b>		0 °C to 40 °C (32°F to 104°F)
<b>Operating humidity</b>		30% to 90% (without condensation)
<b>Dimensions</b>	<b>GP-UH532H</b>	27 mm (W) x 30 mm (H) x 42.5 mm (D) (1-1/16 inches (W) x 1-5/32 inches (H) x 1-43/64 inches (D)) (excluding tripod mount base and protrusions)
	<b>GP-UH532C</b>	185 mm (W) x 57 mm (H) x 270 mm (D) (7-9/32 inches (W) x 2-1/4 inches (H) x 10-5/8 inches (D)) (excluding rubber feet and protrusions)
<b>Weight</b>	<b>GP-UH532H</b>	Approx. 65 g (0.14 lbs.)
	<b>GP-UH532C</b>	Approx. 2 kg (4.41 lbs.)
<b>Finish</b>		Chemical-resistant coating (sail white)

## System

### Sample Configuration



# SYSTEM COMPONENTS

## GP-UH532 Complete Product Components



### GP-UH532C CCU Control Unit

- » Supports GP-UH532H head
- » Dimension: 185 x 57 x 270mm
- » User profile function
- » Outputs: HDMI or 3G/HD-SDI



### GP-UH532H Remote Camera Head

- » 1/3" 3MOS image sensor
- » Dimension: 27 x 30 x 42,5 mm
- » High sensitivity
- » F8 at 2000lx



### GP-UC532 Signal Cable

- » GP-UC532G03 (3m)
- » GP-UC532G06 (6m until the end of 2016, afterwards 6.6m)
- » GP-UC532G15 (15m)



### GP-NT532C/MPU60A

- » From 100 to 240V AC (50/60Hz) and 12V DC
- » Adapter cable with Hirose plug
- » Medical IEC60601-1 approval

## GP-UH532 OEM Product Components



### GP-UH532HU Remote Camera Head

- » 1/3" 3MOS image sensor
- » High sensitivity
- » F8 at 2000lx



### GP-UH532 CCU Control Board

- » Supports GP-UH532HU head
- » User profile function
- » Outputs: HDMI and 3G/HD-SDI
- » Remote control



### GP-RC100CB Recording Option

- » Supports GP-KH232CB, GP-US932CBSX & GP-UH532CB (enables 2K recording only)
- » Trigger input and footswitch connector
- » USB PIN connector
- » RJ45 (streaming & web access)



### GP-UC15006B Cable Component

- » Non-assembled raw cable in white
- » Suitable for medical applications



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