4K PROFESSIONAL

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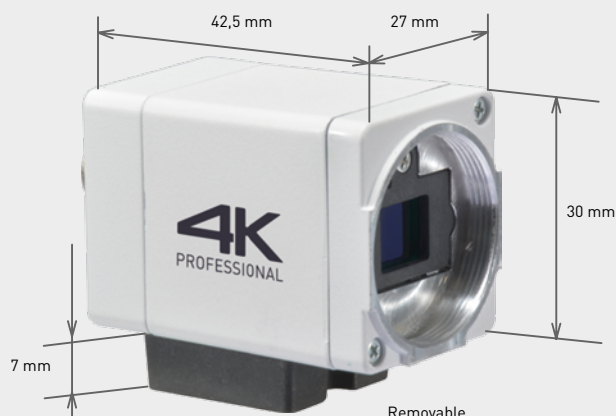## THE 4K ULTRA HD MICRO CAMERA GP-UH532

FUNCTIONALITIES

Realistic 4K ultra high resolution

The 4K Ultra HD micro camera provides a 4K resolution of 3840x2160 and a horizotal 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.

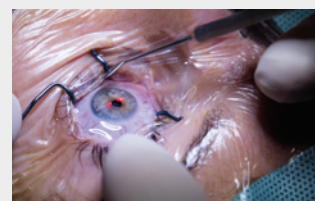42,5 mm   27 mm   30 mm   7 mm   Removable

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.
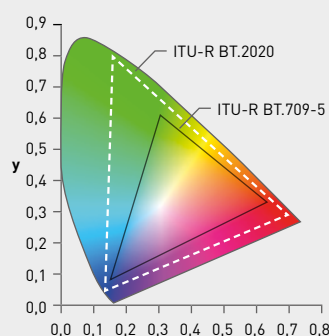

1MOS sensor

3MOS sensor

High Colour Reproduction

ITU-R BT.2020

ITU-R BT.709-5

The camera can output faithfull 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**

4K PROFESSIONAL

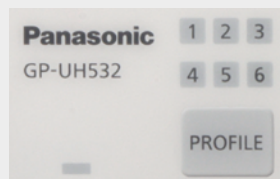Lens is not included
in GP-UH532 series

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.

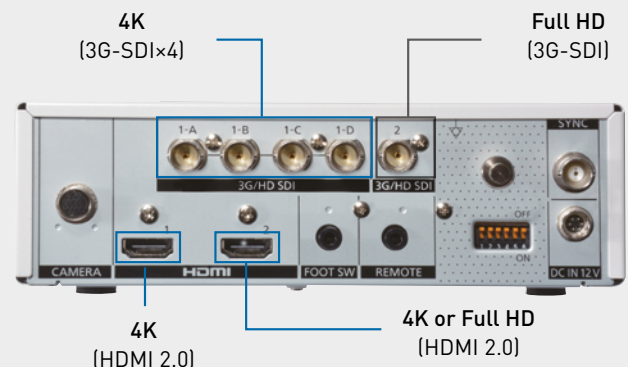Rotary volume dials

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.

4K
(3G-SDI×4)

Full HD
(3G-SDI)

4K
(HDMI 2.0)

4K or Full HD
(HDMI 2.0)

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.
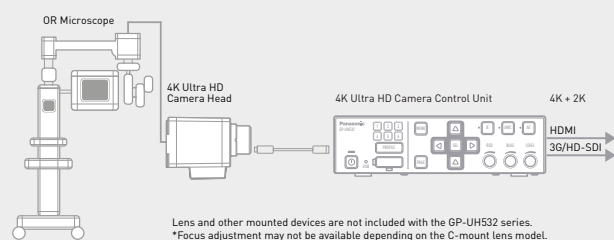
SPECIFICATION

GP-UH532

Power supply	12 V DC +/- 10%	
Power consumption	Approx. 40 W (including camera head)	
Optical system	Microprism optical system	
Image sensor	1/3˝ type 3MOS	
Video output	HDMI output	HDMI terminal x 2 (for 4K and Full HD)
	SDI output	BNC terminal x 5 (4 for 4K and 1 for Full HD)
Video format	HDMI output	3840x2160/59.94p, 3840x2160/50p, 1920x1080/59.94p, 1920x1080/59.94i, 1920x1080/50p, 1920x1080/50i
	SDI output	3840x2160/59.94p, 3840x2160/50p, 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i
Standard illumination	2000 lx (3200K, F8)	
Minimum illumination	5 lx (F2.2, GAIN: HIGH, 30% output, screen center)	
S/N	54 dB (Gain off)	
Horizontal resolution	1600 TV lines at center (when 2160p output)	
Functions	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	
External control	3.5 mm diameter stereo mini jack (3-pole serial, RS232C signal compliant)	
Operating temperature	0˚C to 40˚C (32°F to 104°F)	
Operating humidity	30% to 90% (without condensation)	
Dimensions	GP-UH532H	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)
	GP-UH532C	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)
Weight	GP-UH532H	Approx. 65 g (0.14 lbs.)
	GP-UH532C	Approx. 2 kg (4.41 lbs.)
Finish	Chemical-resistant coating (sail white)	

System

Sample Configuration

OR Microscope
4K Ultra HD Camera Head
4K Ultra HD Camera Control Unit
4K + 2K
HDMI
3G/HD-SDI

Lens and other mounted devices are not included with the GP-UH532 series.
*Focus adjustment may not be available depending on the C-mount lens model.

SYSTEMCOMPONENTS

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/MPU6OA
- » 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