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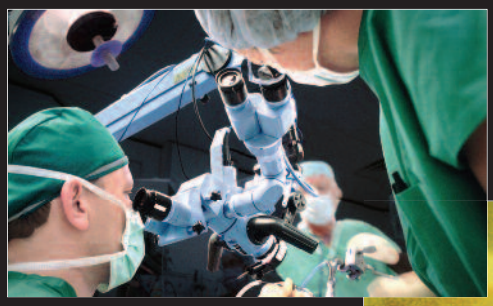
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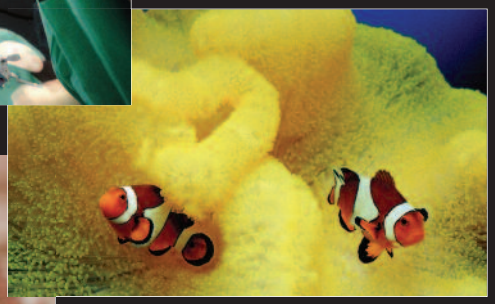
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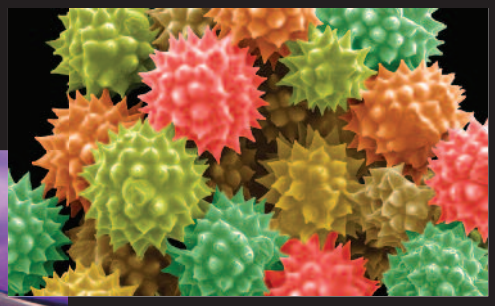
Panasonic System Solutions Company

the best in HD just got better













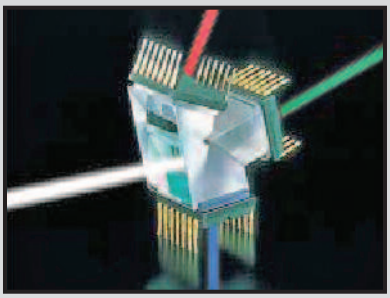
Now 1080p HD!



GP-US932A HD Series

Panasonic's True HD 3CCD Remote Head 1080p Output Camera System

Now, get the sharpest, purest color images imaginable, from Panasonic's small 3CCD remote head camera with true 16x9 Multi Format High Definition. Ideal for medical, microscopy, broadcast, inspection, industrial and professional applications, this revolutionary solution is available only from Panasonic. Take a look – you'll be amazed to see what you've been missing.



True Multi-Format HD

The unit is 1080p, 1080i or 720P selectable and uses three 1/3" type 16x9 Progressive HD sensors running at full 60 frames per second. Offering sharp, flicker-free images with better vertical resolution.

New High-Sensitivity Progressive CCD

Each pixel has a large light-receiving area, giving this newly developed 1/3" type progressive CCD exceptional high sensitivity. This advanced CCD and a newly developed digital signal processor (DSP), in combination with a very sophisticated offset spatial technology, achieves a balance of high resolution and high S/N ratio required for critical HD applications.

New DSP with 14-bit A/D Conversion and 19-bit Processing

Starting from progressive capture, the GP-US932A's newly developed DSP uses 14-bit A/D conversion and 19-bit inner processing to attain unprecedented accuracy and results in true 1920x1080i, 1920x1080p or 1280x720p HD outputs. From this progressive capture, the DSP converts the signal to multiple, simultaneous HD and SD outputs.



GP-US932A HD image

Conventional image

Special Expanded Dynamic Range Function

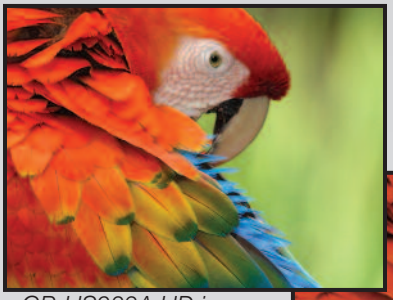
Our unique new dynamic range feature expands the contrast of the dark areas while maintaining detail in the bright areas of the picture.

High-Resolution Native Progressive Scan

Progressive to interlace conversion, cross conversion and down conversion all start with the progressive scan. That initial Native Progressive Scan offers a higher level of vertical resolution. The result is outstanding HD and SD video output image quality that electronically processed scans cannot match.

The best in HD just got better!

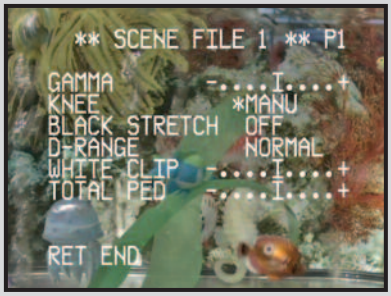
1080p Output • Smaller Head
Improved Sensitivity by 6dB
Longer Cables Available • HDMI Outputs



GP-US932A HD image



Conventional image



Major Operating Controls & Switches

- HD Outputs: HDMI, HD-SDI; Analog Component (RGB/YPbPr)
- Standard outputs: S-Video, composite
- RS-232 for control

Powerful, Flexible Menu Set-up

Three Scene Files

There are three separate scene files each with eleven programmable parameter settings that can be customized to the user's preference, i.e. surgical modalities.

Full, Flexible Parameter Settings

- Gamma • Red Detail • Precise ELC Control • Gain
- KNEE, Black Stretch • Detail Enhancement (frequency selectable / multiple levels)

Other Features

Includes Electronic Zoom up to 2.5x, freeze, mirror, rotate and flip functions.



Underwater



Microscopy



Reality TV



Specialty Broadcast



Aerial



Sports



Medical

GP-US932A HD Series Remote Camera System Specifications

Specifications

Scan Frequency	**59.94 Hz (NTSC for SD)**
Power Source	12 V DC
Power Consumption (including camera head)	GP-US932CA - approx.15.6W GP-US932CSA - approx.16.8W
Pick-up System	Micro prism system
Image Sensor	Three 1/3" interline transfer (IT) progressive CCDs
Synchronization	Internal or external synchronization
Video Output	
Video Output	BNC Connector x 1, 1.0 V [P-P] / 75 Ω
S-Video Output	S-Video connector x 1 Y: 0.714 V [P-P] / 75 Ω C: 0.286 V [P-P] / 75 Ω
RGB/YPbPr Output	D-sub 9-pin connector x 1 R, G, B: 0.7 V [P-P] / 75 Ω Y: 0.7 V [P-P] / 75 Ω Pb, Pr: 0.525 V [P-P] / 75 Ω SYNC: 0.6 V [P-P] / 75 Ω (at output using 1080i or 720p) 0.3 V [P-P] / 75 Ω (at output using 480p or 480i) VIDEO: 1.0 V [P-P] / 75 Ω
HDMI Output	HDMI connector x 1
SDI Output	BNC connector x 2 (GP-US932CSA only)
Video Format	
Video Output	480/59.94i
S-Video Output	480/59.94i
RGB/YPbPr Output	1080/59.94i, 1080/29.97p(sF), 720/59.94p, 480/59.94p, 480/59.94i
HDMI Output	1080/59.94p,1080/59.94i, 1080/29.97p(sF), 720/59.94p, 480/59.94p
SDI Output	1080/59.94i, 1080/29.97p(sF), 720/59.94p, 480/59.94i (GP-US932CSA only)
Required Illumination	2000 lux (3200 K, F8.0)
Minimum Illumination	12 lux (1.1 fc) (F2.2, GAIN: HIGH, 30 % output at center)
Signal-to-Noise Ratio	54 dB (at output using 1 080i)
Horizontal Resolution	700 TV lines at center (when 1 080i output)
Color Bar	SMPTE color bar with 0 % set-up
Functions	Camera title, ELC, electronic shutter, gain adjustment, electronic sensitivity enhancement, selection of multiple output signal, scene files, white balance, black balance, synchronization, electronic zoom, image freezing, flip, mirror, status display
External Control	RS-232C D-sub 9-pin connector x 1
Ambient Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Ambient Operating Humidity	30 % to 90 %
Dimensions GP-US932CA	170 (W) x 44 (H) x 229 (D) mm
GP-US932CSA	(6-11/16" (W) x 1-3/4" (H) x 9-1/16" (D)) (excluding rubber feet and projections)
GP-US932HA	37 (W) x 47 (H) x 60 (D) mm (1-7/16" (W) x 1-7/8" (H) x 2-1/8" (D)) (excluding tripod socket and projections)
Weight GP-US932CA	1.40 kg (3.1 lbs.)
GP-US932CSA	1.45 kg (3.2 lbs.)
GP-US932HA	140 g (0.3 lbs.)
Finish	Ivory color coating

Recommended Lenses

Fujinon* HD lens

HAF4.8DA-1



XA4x7.5DA-1



Fujinon* SD lens

TF2.8DA-8



TF4DA-8



TF8DA-8



TF15DA-8

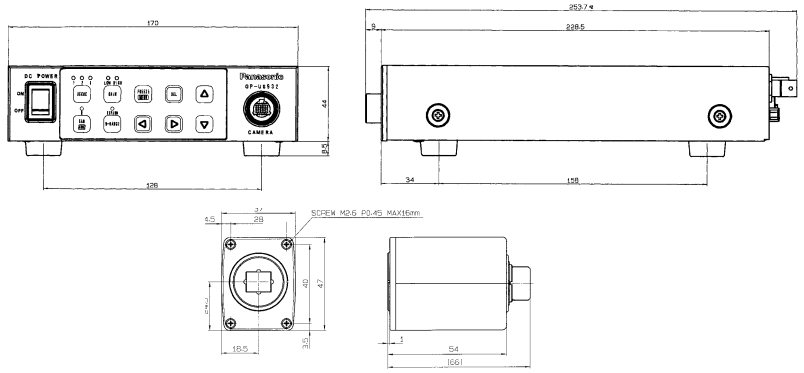


Specifications of Recommended Lenses

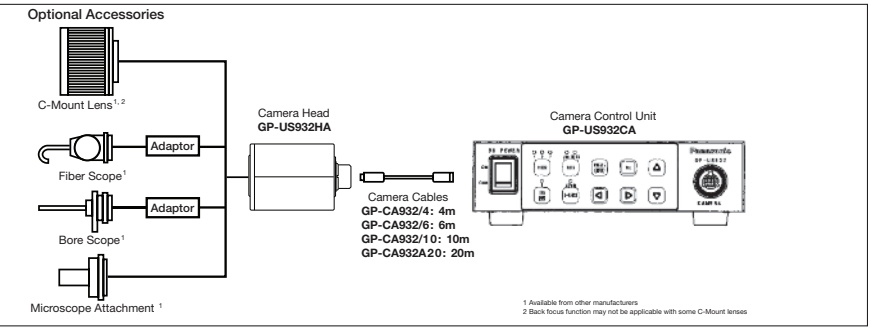
	HD Lenses		SD Lenses			
Model No.	HAF4.8DA-1	XA4x7.5DA-1	TF2.8DA-8	TF4DA-8	TF8DA-8	TF15DA-8
Manufacturer	Fujinon*	Fujinon*	Fujinon*	Fujinon*	Fujinon*	Fujinon*
Focal Length (mm)	4.8	7.5 – 30	2.8	4	8	15
Zoom Ratio		4				
Maximum Aperture Ratio	2.2	2.8	2.2	2.2	2.2	2.2
Angle of View (°) Horizontal	57.07°	38.38° – 9.94°	85.98°	66.25°	36.14°	19.74°
Vertical	34.05°	22.18° – 5.61°	55.40°	40.36°	20.82°	11.19°
Minimum Object Distance (m / ft)	0.1 / 0.33	0.45 / 1.48	0.1 / 0.33	0.1 / 0.33	0.1 / 0.33	0.1 / 0.33
Filter Thread	M55	M52	N/A	M27 x 0.5	M25.5 x 0.5	M25.5 x 0.5
Mount	C	C	C	C	C	C
Focus	Manual	Manual	Manual	Manual	Manual	Manual
Iris	Manual	Manual	Manual	Manual	Manual	Manual
Length (from focal plane) (mm / inch)	53.126 / 2.092 (in air)	178.926 / 7.044 (in air)	64.025 / 2.521 (in air)	63.025 / 2.481 (in air)	56.526 / 2.225 (in air)	56.526 / 2.225 (in air)
Full Aperture (mm / inch)	ø42 / ø1.654	ø54 / ø2.126	ø34 / ø1.339	ø29 / ø1.142	ø29 / ø1.142	ø29 / ø1.142
Weight (g / lbs)	95 / 0.21	500 / 1.1	75 / 0.17	70 / 0.15	60 / 0.13	60 / 0.13

* Fujinon Lenses: Please contact to your distributor

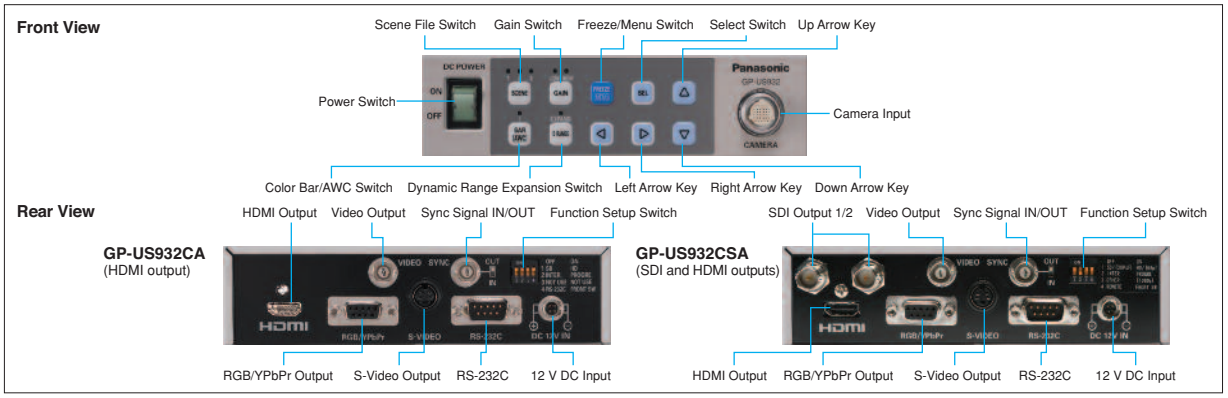
Dimensions



System Block Diagram



Part Names and Functions



Camera Cables

GP-CA932/4: 4m
GP-CA932/6: 6m
GP-CA932/10: 10m
GP-CA932A20: 20m



- Lens, power supply and cable are optional equipment
- All TV pictures and menus are simulated and shown for the purpose of explanation
- Weights and dimensions are approximate
- Specifications are subject to change without notice
- These products may be subject to export control regulations

IMPORTANT– Safety Precaution: carefully read the operating instructions and installation manual before using this product.

Panasonic is registered with "ISO 14001," the international standard for the environment. To ensure a bright future for the earth, Panasonic has begun numerous activities to promote clean global manufacturing.

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