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HD Color Camera Module

GP-MH330

GP-MH326

GP-MH322



Full HD 1080/60p, 50p High Sensitivity Color Camera Module

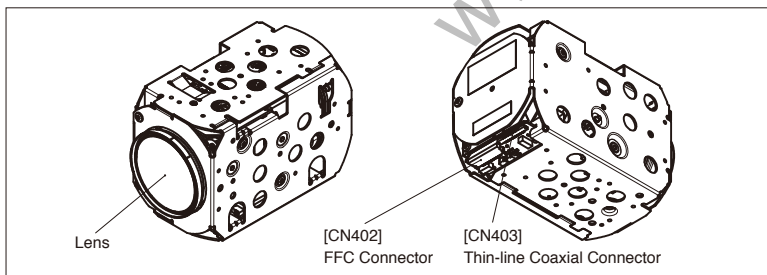
Key Features

- **1/2.8 type Progressive Scan MOS sensor**
- **High sensitivity**
Minimum illumination :
0.4 lx (Color), 0.03 lx (B/W) at F1.6 (50 IRE, 1/30 sec)
- **Autofocus Powerful Zoom with Optical zoom lens Lineup**
GP-MH330 : Optical zoom **30x**, Digital zoom **20x**
GP-MH326 : Optical zoom **26x**, Digital zoom **20x**
GP-MH322 : Optical zoom **22x**, Digital zoom **20x**
- **Various Video Outputs and Formats**
Digital (LVDS) :
1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p
1080/50p, 1080/50i, 1080/25p, 720/50p
Component (Y/Pb/Pr) :
1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p, 480/59.94p
1080/50p, 1080/50i, 1080/25p, 720/50p, 576/50p
Composite (NTSC, PAL)
- **Dimensions** : 50.0 mm x 60.0 mm x 94.0 mm
(1-15/16 inches x 2-3/8 inches x 3-11/16 inches)
- **Operating Temperature** : -10 °C to 60 °C (14 °F to 140 °F)
- **Dehazing** technology allows the foggy or hazy images to be clear and sharp.
- **Super Dynamic** technology provides 128x wide dynamic range to cover both dark areas and bright areas.
- **Various Camera Function**
 - Day/Night function
 - Motion Detection (adjustable sensitivity, motion zoom)
 - Privacy Mask (Up to 32 zone, 1 screen max 8 masks)
 - Image Stabilizer
 - Auto Pursuit
 - Chroma/Pedestal Level adjustment
 - AE response (Up to 10 minutes)
 - Mirror/Flip Image Effect
 - Image Freeze
 - Customizable OSD etc.

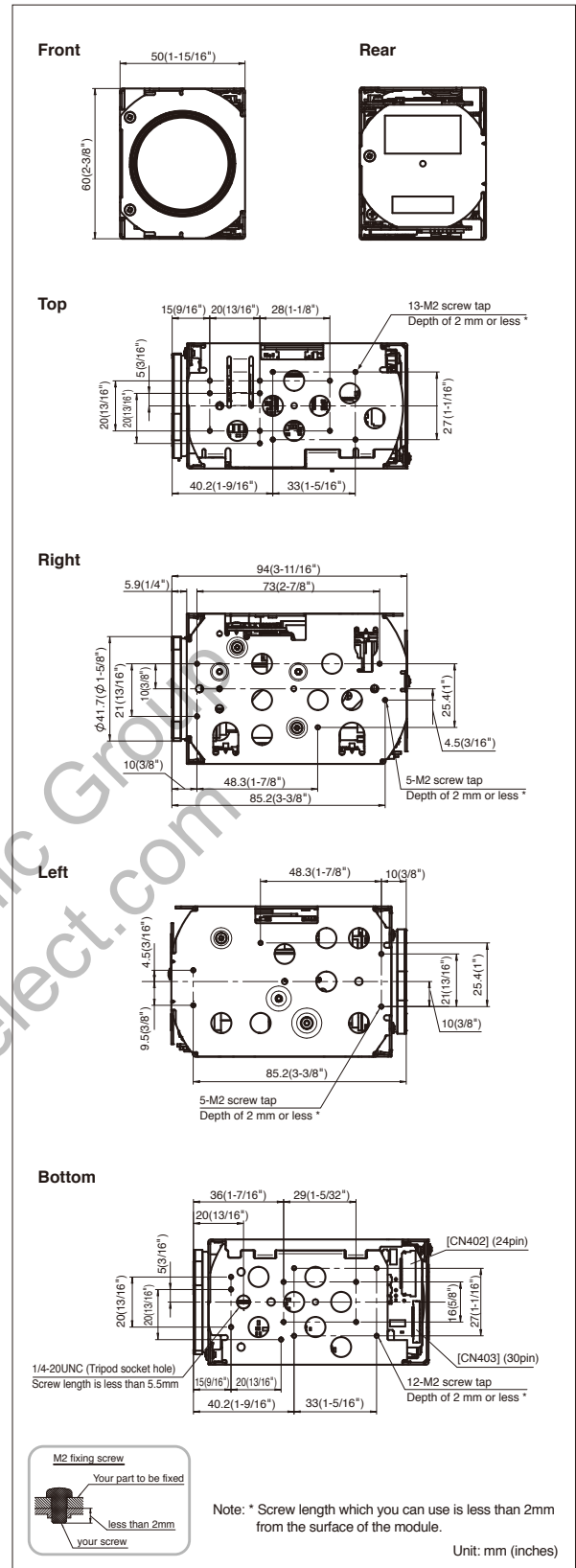
Specifications

Model	GP-MH330	GP-MH326	GP-MH322
Camera			
Image Sensor	1/2.8 type MOS		
Effective Pixels (approx.)	2 Megapixels		
Scanning Mode	Progressive Scan		
Minimum Illumination (approx.)	Color : 0.4 lx (F1.6, 1/30 sec, 50IRE, Gain:High) B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain:High)		
Video S/N Ratio	More than 50 dB (AGC: OFF)		
Lens Focal Length	f=4.3 mm to 129.0 mm F1.6 to F4.7	f=4.3 mm to 111.8 mm F1.6 to F4.6	f=4.3 mm to 94.6 mm F1.6 to F4.5
Zoom Ratio	30x Optical zoom	26x Optical zoom	22x Optical zoom
Digital Zoom	up to 20x Digital zoom		
Angle of View Horizontal	(16:9) 65.1° to 2.3°	(16:9) 65.1° to 2.7°	(16:9) 65.1° to 3.2°
(Wide - Tele) Vertical	(16:9) 38.4° to 1.4°	(16:9) 38.4° to 1.5°	(16:9) 38.4° to 1.8°
Minimum working distance	100 mm (Wide end) to 1200 mm (Tele end)		
White Balance	ATW / AWC / Manual (Adjustable R and B signals) / Outdoor / Indoor / Fluorescent		
Backlight compensation	Multi / Center / Mask / OFF		
AGC	Low1 / Low2 / Low / Mid1 / Mid / High1 / High / OFF (Gain adjustable)		
Super Dynamic*	ON / OFF *Available only when 1080/29.97p and 1080/25p.		
Electronic Shutter	1/50 (1/60), 1/120 (1/100), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/16000sec Long shutter: x1, x2, x4, x8, x16, x32, x64, x128		
Electronic Sensitivity UP	Auto / OFF (Max.128x)		
Electronic Iris	ON / OFF		
Iris control	Auto / OFF (Iris level setting adjustable)		
Day & Night (IR)	Auto (Level: Low/Middle/High/ADJ) / Color / BW		
Digital Noise Reduction	ON / OFF (Level setting adjustable)		
Gamma	0.45 / 1 / Other settings available		
Video Motion Detection	ON / OFF (Adjustable sensitivities, Motion zoom function available)		
Privacy Mask	ON / OFF (up to 32 zones/Wide view screen, 1 screen max 8 masks)		
Mirror/Flip Image Effect	H / V / HV / OFF		
Image Freeze	ON / OFF		
Image Stabilizer	ON / OFF		
Chroma Level	Adjustable		
Pedestal Level	Adjustable		
Auto Pursuit	ON / OFF (Auto tracking works at PTZ, sensitivities adjustable)		
Dehazing	ON / OFF		
OSD	ON / OFF (40 alphanumeric characters (CameraID:20 + Title:20))		
Customer preset	Yes		
Temperature information	Yes		
AE response	up to 10 minutes (Response time setting adjustable)		
Auto Focus	Auto / Manual / One-Push / STOP-AF (AF Sensitivity, Speed, Near Limit, Detection area settings adjustable)		
Aperture Compensation	ON / OFF (Compensation amount adjustable, H/V settings independently possible)		
Synchronize system	Internal Sync		
Interface			
Video	Digital (LVDS) : 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p 1080/50p, 1080/50i, 1080/25p, 720/50p Component (Y/Pb/Pr) : 1080/59.94p, 1080/59.94i, 1080/29.97p, 720/59.94p, 480/59.94p 1080/50p, 1080/50i, 1080/25p, 720/50p, 576/50p Composite (NTSC, PAL)		
Communication	UART (CMOS 5 V)		
General			
Power supply	6-12 V DC (Recommendation : DC9 V)		
Power consumption	DC6 V : 3.8 W (5.8 W, motor active) DC9 V : 3.9 W (5.4 W, motor active) DC12 V : 4.0 W (5.4 W, motor active)		
Ambient operating temperature	-10 °C to 60 °C (14 °F to 140 °F)		
Ambient Operating Humidity	20% to 90%		
Ambient Storage temperature	-40 °C to 70 °C (-40 °F to 158 °F)		
Dimensions	50.0 mm (W) x 60.0 mm (H) x 94.0 mm (L) {1-15/16 inches (W) x 2-3/8 inches (H) x 3-11/16 inches (L)}		
Weight	Approx. 290 g (0.64 lbs.)		

Part Names and Functions



Appearance



- Masses and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.

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