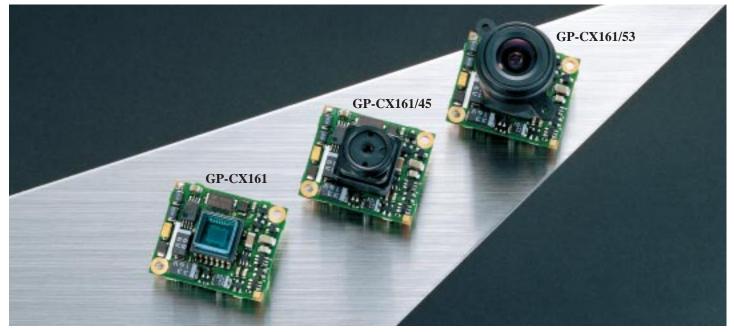
# Panasonic

### Color Board cameras GP-CX161 Series

OEM Product

### NTSC/PAL



## Ultra-compact 22mm (height) x 26mm (width) design with color reproduction. Suitable for a wide range of applications.

The core board camera series have been made even more compact. Use of 10-bit DSP enables high resolution 330-line and high sensitivity 5 lux\* minimum illumination in a compact size. They are suitable for a wide range of applications installed in all kinds of locations. \*GP-CX161/53

#### Main features

- Ultra-small 22mm x 26mm integral package design allows use in a wide range of applications.
- Built-in a new 10-bit digital signal processing chip.
- 330-line high resolution and high sensitivity 5 lux\* minimum illumination.
- MCM PCB design offers ultra-compact thin size, light weight, and high durability.
- Cameras also available with optional 45° and 53° horizontal field of view lenses.
- \*GP-CX161/53

#### **Product Applications**

- Dental uses / PC cameras / Specialist filming uses / Vehicle rear-view cameras / Security cameras in ATM installations
- Also suitable for a wide range of other uses.



Camera for dental checks

Downloaded from Elcodis.com electronic components distributor



Security cameras for ATM installations



Interphone cameras



PC cameras





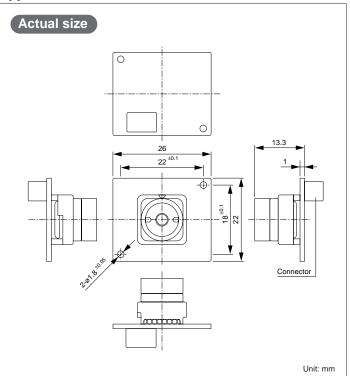
#### **Specifications**

Model No.         GP-CX161P series         GP-CX161E series           Imaging area         3.61 mm (H) x 2.72 mm (V)         3.61 mm (H) x 2.70 mm (V)	Specifications					
Imaging area3.61 mm (H) x 2.72 mm (V)3.61 mm (H) x 2.70 mm (V)Imaging systemInterline field accumulationHorizontal scanning frequency15.734 kHz15.625 kHzVertical scanning frequency59.94 kHz50.00 kHzNumber of scanned lines525 lines625 linesFrames per second30 frames25 framesSynchronizationInternal synchronizationVideo outputVBS 1 V(p-p) / 75 Ω composite signalResolutionHorizontal: Min. 330 lines (center area)Vertical: Min. 350 lines (center area)Vertical: Min. 350 lines (center area)S/N ratio46 dB (with AGC OFF)Minimum Illumination10 lx (at F2.8), 5 lx (at F2.0)AGCOn (preset)White balanceATW (preset)External terminals6-pin cable connector (1) Power input (2) GND (3) Video output(4) GND (5) I²C SCL (6) I²C SDA51.5 VPower supply rangeDC 4.8 ~ 5.5 VPower consumptionDC 5.0 V 160 mA (Typ.)Temperature range Operating: 90% max. Storage: 95% max.Dimensions (26 mm (W) x 22 mm (H) x 13.3 mm (D) (excluding connector)	TV standard	NTSC	PAL			
Imaging system         Interline field accumulation           Horizontal scanning frequency         15.734 kHz         15.625 kHz           Vertical scanning frequency         59.94 kHz         50.00 kHz           Number of scanned lines         525 lines         625 lines           Frames per second         30 frames         25 frames           Synchronization         Internal synchronization         Video output           VBS 1 V(p-p) / 75 Ω composite signal         Horizontal: Min. 330 lines (center area)           Vertical: Min. 350 lines (center area)         Vertical: Min. 350 lines (center area)           VAritaio         46 dB (with AGC OFF)           Minimum Illumination         10 lx (at F2.8), 5 lx (at F2.0)           AGC         On (preset)           ELC         On (preset)           ELC         On (preset)           White balance         ATW (preset)           External terminals         6-pin cable connector (1) Power input (2) GND (3) Video output (4) GND (5) i²C SCL (6) i²C SDA           Power supply range         DC 4.8 ~ 5.5 V           Power consumption         DC 5.0 V           160 mA (Typ.)         Temperature range           Operating (Actual use): -10°C ~ +50°C (PCB only) Guaranteed performance: +5°C ~ +35°C           Humidity range         Operating: 90% max.	Model No.	GP-CX161P series GP-CX161E series				
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Vertical scanning frequency       59.94 kHz       50.00 kHz         Number of scanned lines       525 lines       625 lines         Frames per second       30 frames       25 frames         Synchronization       Internal synchronization       Video output         VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal: Min. 330 lines (center area)         Vertical: Min. 350 lines (center area)         Vertical: Min. 350 lines (center area)         S/N ratio       46 dB (with AGC OFF)         Minimum Illumination       10 lx (at F2.8), 5 lx (at F2.0)         AGC       On (preset)         ELC       On (preset)         White balance       ATW (preset)         External terminals       6-pin cable connector         (1) Power input       (2) GND         (3) Video output       (4) GND         (5) I°C SCL       (6) I°C SDA         Power supply range       DC 4.8 ~ 5.5 V         Power consumption       DC 5.0 V         160 mA (Typ.)       Temperature range         Operating (Actual use): -10°C ~ +50°C (PCB only)         Guaranteed performance: +5°C ~ +35°C         Humidity range       Operating: 90% max.         Storage: 95% max.       Storage: 95% max.	Imaging system	Interline field accumulation				
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Frames per second       30 frames       25 frames         Synchronization       Internal synchronization         Video output       VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal: Min. 330 lines (center area)         Vertical: Min. 350 lines (center area)       Vertical: Min. 350 lines (center area)         S/N ratio       46 dB (with AGC OFF)         Minimum Illumination       10 lx (at F2.8), 5 lx (at F2.0)         AGC       On (preset)         ELC       On (preset)         White balance       ATW (preset)         External terminals       6-pin cable connector (1) Power input (2) GND (3) Video output (4) GND (5) I <sup>2</sup> C SCL (6) I <sup>2</sup> C SDA         Power supply range       DC 4.8 ~ 5.5 V         Power consumption       DC 5.0 V 160 mA (Typ.)         Temperature range       Operating (Actual use): -10°C ~ +50°C (PCB only) Guaranteed performance: +5°C ~ +35°C         Humidity range       Operating: 90% max. Storage: 95% max.         Dimensions (GP-CX161/45)       26 mm (W) x 22 mm (H) x 13.3 mm (D) (excluding connector)	Vertical scanning frequency	59.94 kHz 50.00 kHz				
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(3) Video output         (3) Video output         (4) GND         (5) I²C SCL         (6) I²C SDA         Power supply range       DC 4.8 ~ 5.5 V         Power consumption       DC 5.0 V         160 mA (Typ.)         Temperature range       Operating (Actual use): -10°C ~ +50°C (PCB only)         Guaranteed performance: +5°C ~ +35°C         Humidity range       Operating: 90% max.         Storage: 95% max.         Dimensions       26 mm (W) x 22 mm (H) x 13.3 mm (D)         (excluding connector)		(1) Power input				
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Dimensions         26 mm (W) x 22 mm (H) x 13.3 mm (D)           (GP-CX161/45)         (excluding connector)	Humidity range					
(GP-CX161/45) (excluding connector)						
	Dimensions					
Weight (GP-CX161/45) approx. 8 g	(GP-CX161/45)	(excluding connector)				
	Weight (GP-CX161/45)	approx. 8 g				

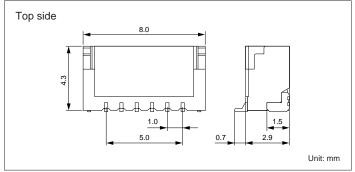
#### Configurations

Model No.	Lens type	Horizontal field angle	Vertical field angle	Max. aperture	Focal length	
GP-CX161P/E	without lens					
GP-CX161/45P/E	Pin-hole	45.0°	33.8°	F2.8	4.6 mm	
GP-CX161/53P/E	Standard	53.4°	40.0°	F2.0	3.8 mm	

#### Appearance



External terminals: JST BM06B-SRSS-TB



\* With 45° lens attached (Lens unit diameter and height differ for other lenses. Please inquire for details.)

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

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