

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

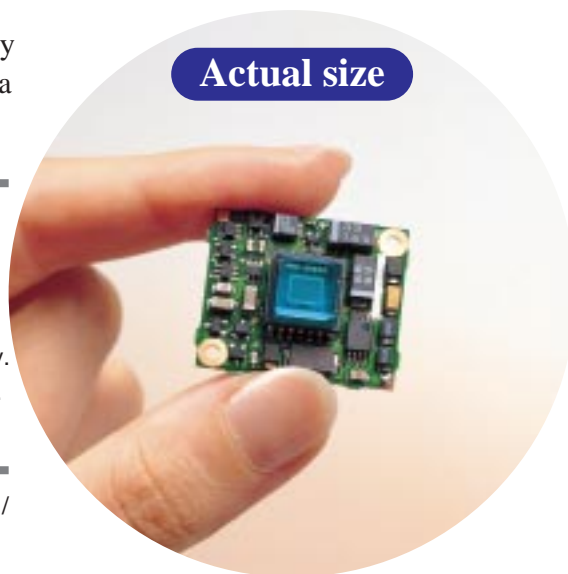
Main features

- 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



Security cameras for ATM installations



Interphone cameras



PC cameras

TV standard	NTSC	PAL
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)
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	
Resolution	Horizontal: Min. 330 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 ² C SCL (6) I ² 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)	
Weight (GP-CX161/45)	approx. 8 g	

Top side

Unit: mm

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

Actual size

Technical drawing showing the actual size of the connector. The drawing includes a top view, a front view, a side view, and a detail view of the connector. Dimensions are given in mm.

Top view dimensions: 26 mm (width), 22^{+0.1} mm (width of the central feature).

Front view dimensions: 18^{±0.1} mm (height of the central feature), 22 mm (height).

Side view dimensions: 13.3 mm (width), 1 mm (height).

Detail view dimensions: 2-φ1.8^{±0.05} mm (diameter of the connector).

Connector

Unit: mm

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

Panasonic
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