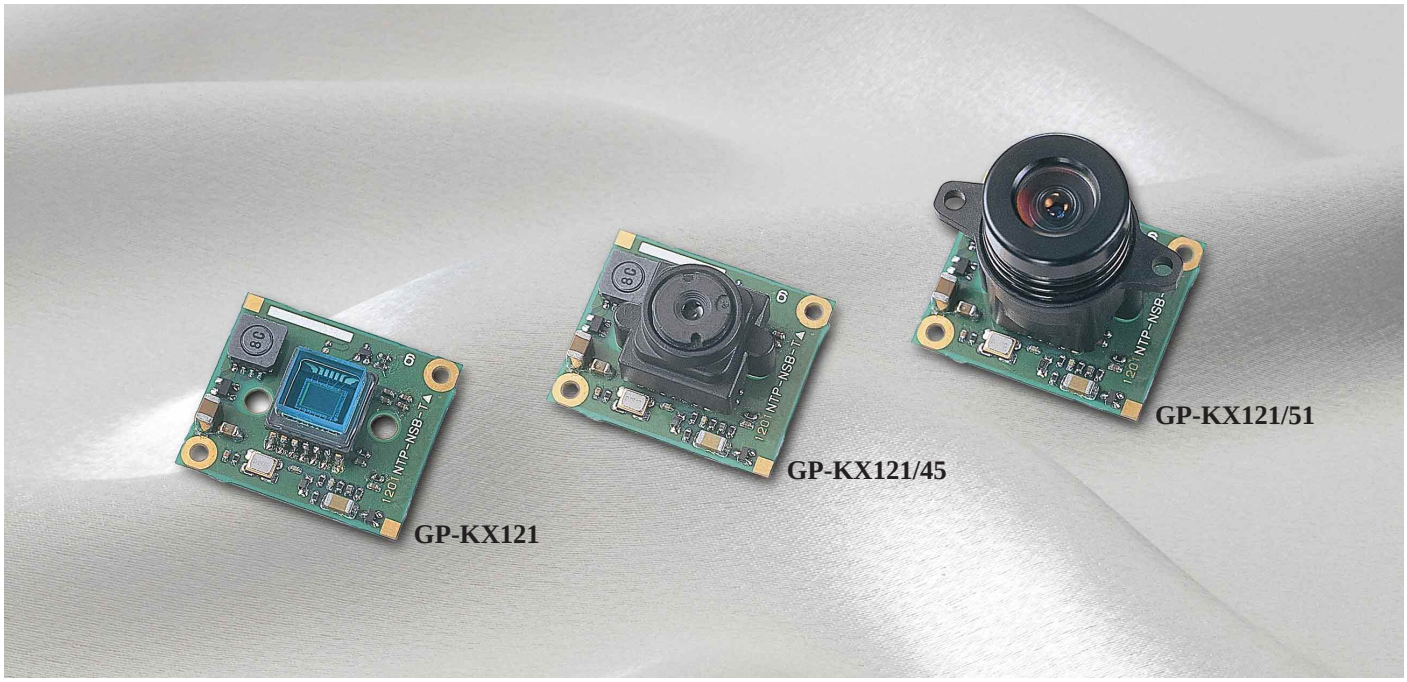
Panasonic

Color Board Cameras

GP-KX121 Series

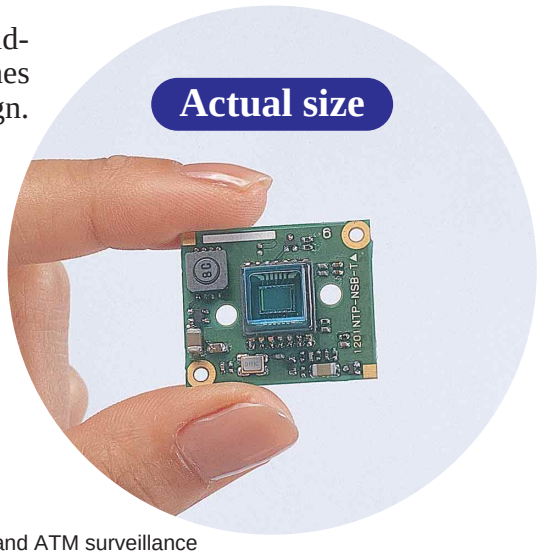
OEM Product

NTSC/PAL



Sensitivity and image quality up, low energy consumption. No ultra-small color board camera is so ideal for so many applications.

Panasonic announce the introduction of a new addition to our world-renown color board camera line-up. The GP-KX121 series combines high image quality and high sensitivity with an energy saving design. These incredibly versatile ultra-small, ultra-light cameras offer the highest cost-performance ever.



Key Features

- Ultra-small 22mm(H) x 26mm(W) package.
- Horizontal 500-pixel array in a 1/4-type CCD, integrated with single chip digital signal processing (DSP).
- 300 lines of horizontal resolution and high sensitivity and image quality in lighting as low as 5 lx at F2.0 lens.
- MCM PCB design offers ultra-compact thin size, light weight, and high durability.
- Options include two types of lenses, with 45˚ and 51˚ horizontal image angle.

- Notebook PCs
- Videophones
- Rear-view monitoring for automobiles
- Medical/Dental checks
- Recording natural observations and special monitoring applications
- In-store and ATM surveillance
- And these are just the beginning.



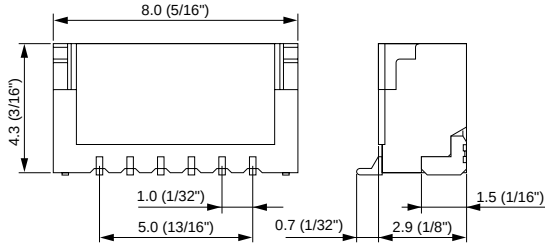
Notebook PCs | Videophones | Automobiles | Video Intercoms | ATMs

SPECIFICATIONS

TV Standard		NTSC	PAL
Model No.		GP-KX121P series	GP-KX121E series
Pick-up Device		1/4-type CCD with complimentary color filter	
Actual Number of Pixels		512H x 492V	512H x 582V
Total Number of Pixels		542H x 492V	542H x 582V
Imaging Area		3.68 mm (H) x 2.75 mm (V)	3.68 mm (H) x 2.74 mm (V)
Pixel Dimensions		7.20 µm(H) x 5.60µm (V)	7.20 µm(H) x 4.70µm (V)
Imaging System		Interline field memory 2-line simultaneous read-out	
Horizontal Scanning Frequency		15.734 kHz	15.625 kHz
Vertical Scanning Frequency		59.94 Hz	60.00 Hz
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)	Min. 400 lines (centre area)
S/N Ratio		46 dB (with AGC off, Weight on)	
Minimum Illumination		6 lx (at F2.8), 3 lx (at F2.0)	
AGC		ON fixed (0dB ~ +15dB)	
ELC		(1/60 ~ 1/96,000s)	(1/50 ~ 1/96,000s)
White Balance		ATW (ON fixed)	
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		125 mA (DC 5.0 V)	
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-KX121/51)		26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)	
Weight (GP-KX121/51)		approx. 11 g	

EXTERNAL TERMINALS: JST BM06B-SRSS-TB

Top side



[Note: JST type SHR-06V-5-B to be connected]

Unit: mm (inches)

OPTIONAL ACCESSORIES

Connector Cable (10 pcs per package)
Z-E498-01



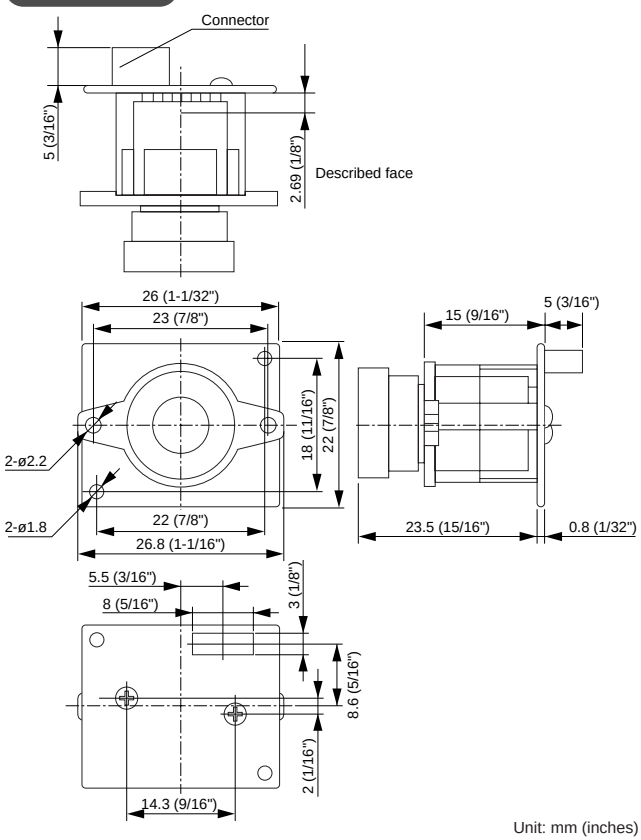
Regulator Board (from 12V to 5V DC)
GP-PSB12E



CONFIGURATIONS

Model No.	Lens type	Horizontal field angle	Max. aperture	Focal length
GP-KX121P/E	without lens			
GP-KX121/45P/E	Pin-hole	45.0˚	F2.8	4.6 mm
GP-KX121/51P/E	Standard	51.0˚	F2.0	3.7 mm

APPEARANCE

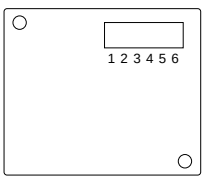


* With 51˚ lens attached (Lens unit diameter and height differ for other lenses. Please inquire for details.)

PIN ASSIGNMENT

Pin Array

Pin	Signal name	Explanation
1	DC	Power Input
2	GND	GND
3	VIDEO OUT	Video Output
4	GND	GND
5	SCL	OPEN
6	SDA	OPEN



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

Panasonic

Panasonic is the brandname of Matsushita Electric.

Printed in Japan
GP-JWKX121T(2N-684A)