# Panasonic

## **Color Board Cameras GP-KX121** Series

**OEM** Product

### NTSC/PAL



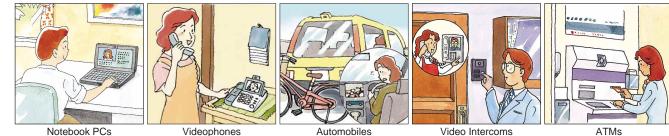
## Sensitivity and image quality up, low energy consumption. No ultra-small color board camera is so ideal for so many applications.

Panasonic announce the introduction of a new addition to our worldrenown 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.



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Video Intercoms

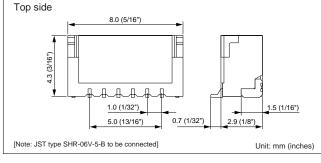
ATMs

Actual size

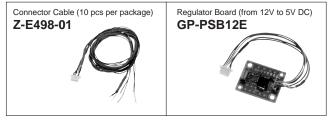
#### **SPECIFICATIONS**

TV Standard       NTSC       PAL         Model No.       GP-KX121P series       GP-KX121E series         Pick-up Device       1/4-type CCD with computerruny 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-lire simultaneous read-out         Horizontal 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       Internal synchronization         Video Output       VBS 1 V(p-p) / 75 Ω computer signal       Min. 400 lines (centre area)         S/N Ratio       46 dB (with AGC off, Weight on)       Min. 400 lines (centre area)         S/N Ratio       46 ATW (ON fixed)       ELC       (1/60 ~ 1/96,000s)       (1/50 ~ 1/96,000s)         White Balance       ATW (ON fixed)       (2) GND       (3) Video output       (3) Video output       (4) GND       (5) FC SCL       (6) FC SDA       F	SPECIFICA				
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       59.94 Hz       60.00 Hz         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       Vertical         Video Output       VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal       Min. 330 lines (center area)         Minimum Illumination       6 k (at F2.8), 3 lx (at F2.0)       AGC         AGC       ON fixed (OdB ~ +15dB)       ELC         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) Vi			NTSC	PAL	
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       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)         Vietrical       Min. 330 lines (center area)       Min. 400 lines (centre area)         S/N Ratio       46 dB (with AGC off, Weight on)       Min. 400 lines (centre area)         Minimum Illumination       6 lx (at F2.8), 3 lx (at F2.0)       AGC         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	Model No.		GP-KX121P series	GP-KX121E series	
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       59.94 Hz       60.00 Hz         Number of Scanned Lines       525 lines       625 lines         Frames per Second       30 frames       25 frames         Synchronization       Internal synchronization       Vertical         Video Output       VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal       Min. 330 lines (center area)         Vertical       Min. 300 lines (center area)       Min. 400 lines (centre area)         S/N Ratio       46 dB (with AGC off, Weight on)       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         (i) Power input       (2) GND       (3) Video output       (4) GND         (5) I <sup>2</sup> C SDA       (6) I <sup>2</sup> C SDA       Power Consumption       125 mA (DC 5.0 V)         Power Consumption       125 mA (DC 5.0 V)       Goperati	Pick-up Device		1/4-type CCD with complimentary color filter		
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       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)         Minimum Illumination       6 k (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) I <sup>2</sup> C SDA       Power Consumption         125 mA (DC 5.0 V)       Temperature Range         Power Consumption       125 mA (DC 5.0 V)         Temperature Range       Operating (Actual use): -10°C ~ +50°C (PCB only) <th>Actual Number</th> <th>of Pixels</th> <th>512H x 492V</th> <th>512H x 582V</th>	Actual Number	of Pixels	512H x 492V	512H x 582V	
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       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)         Vertical       Min. 350 lines (center area)         Minimum Illumination       6 k (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) I <sup>2</sup> C SDA       Power Consumption         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	Total Number of Pixels		542H x 492V	542H x 582V	
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       Vietical         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)       AGC         Minimum Illumination       61 x (at F2.8), 31 x (at F2.0)       AGC         AGC       ON fixed (0dB ~ +15dB)       ELC         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 SDA         Power Supply Range       DC 4.8 ~ 5.5 V       Power Consumption         Power Supply Range       DC 4.8 ~ 5.5 V       Operating (Actual use): -10°C ~ +50°C (PCB only)      <	Imaging Area		3.68 mm (H) x 2.75 mm (V)	3.68 mm (H) x 2.74 mm (V)	
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)       AGC         Minimum Illumination       61 x (at F2.8), 31 x (at F2.0)       AGC         AGC       ON fixed (0dB ~ +15dB)       ELC       (1/60 ~ 1/96,000s)         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         (3) Video output       (4) GND       (5) I²C SDA       Power Supply Range       DC 4.8 ~ 5.5 V         Power Consumption       125 mA (DC 5.0 V)       Operating (Actual use): -10°C ~ +50°C (PCB only)       Guaranteed performance: +5°C ~ +35°C         Humidity Range       Opera	<b>Pixel Dimensio</b>	ns	7.20 µm(H) x 5.60µm (V)	7.20 µm(H) x 4.70µm (V)	
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       Vieto Output         Video Output       VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal       Min. 330 lines (center area)         Vertical       Min. 330 lines (center area)       Min. 400 lines (centre area)         S/N Ratio       46 dB (with AGC off, Weight on)       Min. 400 lines (centre area)         Minimum Illumination       6 lx (at F2.8), 3 lx (at F2.0)       AGC         AGC       ON fixed (0dB ~ +15dB)       ELC         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 Supply Range       DC 4.8 ~ 5.5 V       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 memory 2-line simultaneous read-out		
Number of Scanned Lines       525 lines       625 lines         Frames per Second       30 frames       25 frames         Synchronization       Internal synchronization       Vieto Qutput         VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal       Min. 330 lines (center area)         Vertical       Min. 330 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       26.8 m (W) x 22 mm (H) x 29.3 mm (D)         (including connector)       (	Horizontal Scanning Frequency		15.734 kHz	15.625 kHz	
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)         Video Output       VES 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal       Min. 330 lines (center area)         Min. 400 lines (center area)       Min. 400 lines (center 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)         White Balance       ATW (ON fixed)         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       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.         Storage: 95% max.       Storage: 95% max. <t< th=""><th>Vertical Scannin</th><th>g Frequency</th><th>59.94 Hz</th><th>60.00 Hz</th></t<>	Vertical Scannin	g Frequency	59.94 Hz	60.00 Hz	
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 (center 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) I <sup>2</sup> C SDL       (6) I <sup>2</sup> C 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       26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)	Number of Scanned Lines		525 lines	625 lines	
Video Output       VBS 1 V(p-p) / 75 Ω composite signal         Resolution       Horizontal       Min. 330 lines (center area)       Min. 400 lines (centre 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 k (at F2.8), 3 k (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) I <sup>2</sup> C SDL       (6) I <sup>2</sup> C 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       26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)	Frames per Second		30 frames	25 frames	
Resolution       Horizontal       Min. 330 lines (center area)         Vertical       Min. 330 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)         White Balance       ATW (ON fixed)         External Terminals       6-pin cable connector         (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         Temperature Range       Operating (Actual use): -10°C ~ +50°C (PCB only)         Guaranteed performance: +5°C ~ +35°C       Uperating: 90% max.         Storage: 95% max.       Storage: 95% max.         Dimensions       26.8 mm (W) x 22 mm (H) x 29.3 mm (D)         (GP-KX121/51)       (including connector)	Synchronization		Internal synchronization		
VerticalMin. 350 lines (center area)Min. 400 lines (centre area)S/N Ratio46 dB (with AGC off, Weight on)Minimum Illumination6 lx (at F2.8), 3 lx (at F2.0)AGCON fixed (0dB ~ +15dB)ELC(1/60 ~ 1/96,000s)White BalanceATW (ON fixed)External Terminals6-pin cable connector(1) Power input(2) GND(3) Video output(4) GND(4) GND(5) l²C SCL(6) l²C SDACensumptionPower Supply RangeDC 4.8 ~ 5.5 VPower Consumption125 mA (DC 5.0 V)Temperature RangeOperating (Actual use): -10°C ~ +50°C (PCB only) Guaranteed performance: +5°C ~ +35°CHumidity RangeOperating: 90% max. Storage: 95% max.Dimensions (GP-KX121/51)26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)	Video Output		VBS 1 V(p-p) / 75 Ω composite signal		
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)	Resolution	Horizontal	Min. 330 lines (center area)		
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) l²C SCL (6) l²C 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)		Vertical	Min. 350 lines (center area) Min. 400 lines (centre area		
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)	S/N Ratio		46 dB (with AGC off, Weight on)		
ELC         (1/60 ~ 1/96,000s)         (1/50 ~ 1/96,000s)           White Balance         ATW (ON fixed)         (1/50 ~ 1/96,000s)           External Terminals         6-pin cable connector (1) Power input (2) GND (3) Video output (4) GND (5) I²C SCL (6) I²C SDA         (1/50 ~ 1/96,000s)           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         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)	Minimum Illumination		6 lx (at F2.8), 3 lx (at F2.0)		
White Balance       ATW (ON fixed)         External Terminals       6-pin cable connector         (1) Power input       (2) GND         (3) Video output       (4) GND         (5) I²C SDA       (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)	AGC		ON fixed (0dB ~ +15dB)		
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       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       26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)	ELC		(1/60 ~ 1/96,000s)	(1/50 ~ 1/96,000s)	
(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         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       26.8 mm (W) x 22 mm (H) x 29.3 mm (D)         (including connector)	White Balance		ATW (ON fixed)		
(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       26.8 mm (W) x 22 mm (H) x 29.3 mm (D)         (GP-KX121/51)       (including connector)	External Termin	nals	6-pin cable connector		
(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)			(1) Power input		
(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       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)			(2) 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       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)					
(6) I <sup>2</sup> C 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)					
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)					
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)			(6) I <sup>2</sup> C SDA		
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)	Power Supply Range		DC 4.8 ~ 5.5 V		
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)					
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)					
Storage:         95% max.           Dimensions (GP-KX121/51)         26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)					
Dimensions (GP-KX121/51)         26.8 mm (W) x 22 mm (H) x 29.3 mm (D) (including connector)					
(GP-KX121/51) (including connector)			8		
Weight (GP-KX121/51) approx. 11 g	· · · ·				
	Weight (GP-KX	121/51)	approx. 11 g		

#### EXTERNAL TERMINALS: JST BM06B-SRSS-TB



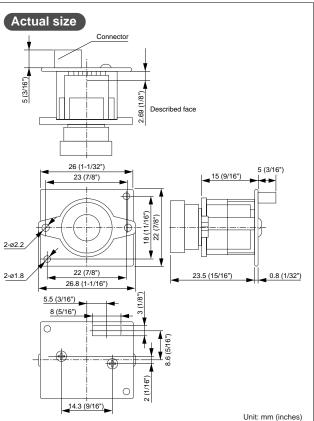
#### **OPTIONAL ACCESSORIES**



#### CONFIGURATIONS

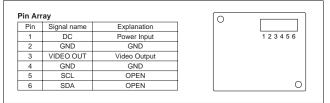
Model No.	Lens type	Horizontal field angle	Max. aperture	Focal length	
GP-KX121P/E	without lens				
GP-KX121/45P/E	Pin-hole	45.0°	F2.8	4.6 mm	
GP-KX121/51P/E	Standard	51.0°	F2.0	3.7 mm	

#### APPEARANCE



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

#### **PIN ASSIGNMENT**



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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