

# KOKUSAI DENKI

## 5GigE Camera

### 5GigE Vision Progressive Scan Camera

**Simple yet powerful: delivers high image quality, high speed, and long-distance transmission.**

- Black & White and Color
- Achieves high-speed, long-distance transmission over Ethernet
- 5times the speed (bandwidth) of 1GigE cameras with a transmission distance of 100m
- 2MP: 195fps
- 5MP: 100fps
- 12MP: 42fps



\* Lens is not included.



**MADE IN JAPAN**

**High Quality**

**High Durability**

**High Reliability**

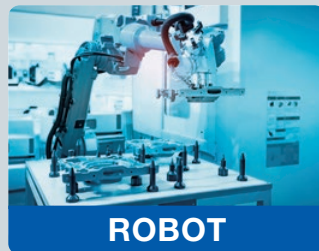
### ● Application Examples

**Ideal for video solutions demanding high-speed, long-distance transmission**



**PLANT**

High-resolution, real-time remote monitoring without delay



**ROBOT**

Transmit the robot's vision simply over IP



**AUTOMOTIVE**

Ideal for high-resolution, high-speed applications such as materials inspection and positioning

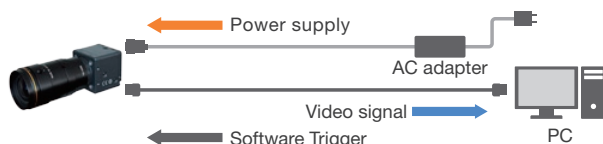


**MANUFACTURING**

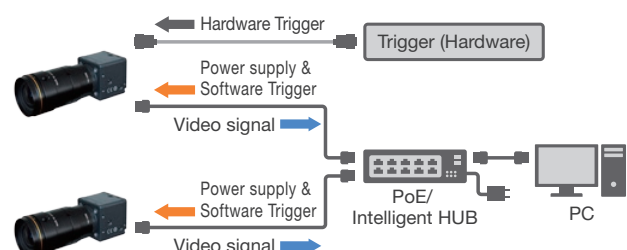
Utilized across various equipment and manufacturing sites

### ● Connection Examples

No frame grabber required. The camera can be connected directly to PC. Supports software trigger.



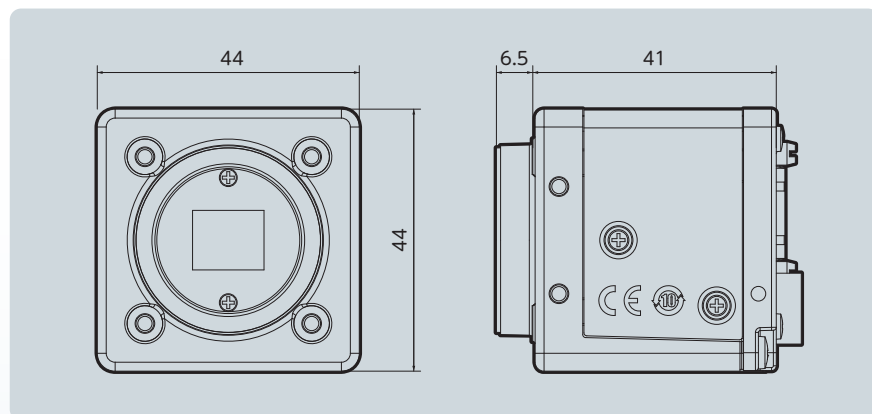
Connect multiple cameras using a hub (including PoE), and support software/hardware trigger.



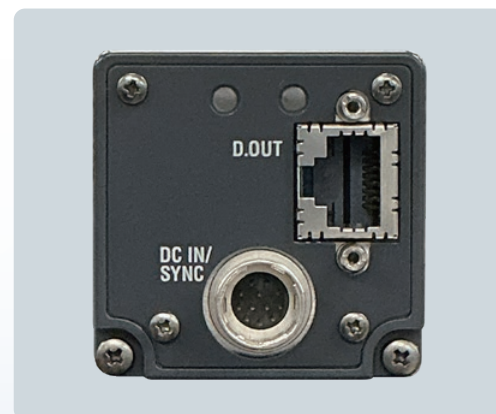
## ● Specifications

Lineup	2 megapixel type	5 megapixel type	12 megapixel type
Model Name	Black and white: KP-FM250GV Color: KP-FMD250GV	Black and white: KP-FM550GV Color: KP-FMD550GV	Black and white: KP-FM1250GV Color: KP-FMD1250GV
Image sensor	1/1.7" CMOS	2/3" CMOS	1.1" CMOS
Effective pixels	2048(H) x 1200(V)	2448(H) x 2048(V)	4096(H) x 3072(V)
Pixel size	4.0μm×4.0μm	3.4μm×3.4μm	
Imaging area	8.19mm×4.8mm	8.32mm×6.96mm	13.93mm×10.44mm
Lens mount	C-mount		
Video Output	5Gigabit Ethernet (Compliant with GigE Vision) Mono8/10/12bit RGB/YCrCb/Mono/Bayer(Color)		
Frame rate	195fps(8bit)	100fps(8bit)	42fps(8bit)
Resolution	1200 TV lines (black and white) 840 TV lines (color)	2000 TV lines (black and white) 1400 TV lines (color)	3000 TV lines (black and white) 2100 TV lines (color)
S/N Ratio	48dB		
Electronic Shutter	1/60 to 1/50,000 sec. 8-step and variable shutter		
External Trigger	Fixed shutter, ONE trigger (software/hardware)		
Partial Scan	The capture start position and capture width can be set arbitrarily.		
Power Supply	DC12V±1V or PoE(IEEE802.3af)		
Power Consumption	DC12V: Approx. 7.0W PoE: Approx. 8.7W	DC12V: Approx. 7.2W PoE: Approx. 9.1W	DC12V: Approx. 7.7W PoE: Approx. 9.5W
Operating temperature	0~40°C/RH90% or less		
Storage temperature	-20~60°C/RH70% or less		
Dimensions / Weight	44(W)×44(H)×41(D)mm, Approx. 125g		

## ● External Dimensions



## ● Rear View



\* Camera Link, GigE Vision and those logo is trademarks of A3 Association for Advancing Automation. \* Ethernet is trademark of Fujifilm Business Innovation.  
\* These specifications are subject to change without prior notice due to product improvement.

**⚠ CAUTION :** To ensure safe operation, please read the instruction manual before using this product.

### KOKUSAI DENKI Electric Inc.

URL : <https://www.kokusaidenki.co.jp/global/en/index.html>  
32, Miyuki-cho, kodaira-shi, Tokyo 187-8511, Japan  
Phone : +81-42-322-3111, Fax : +81-42-322-3303

### KOKUSAI DENKI Electric America, Inc.

URL : <https://www.kokusaidenki.us>  
104 Feeding Hills Road Southwick, MA 01077, U.S.A.  
Toll Free : +1 (833) 227-1658

### KOKUSAI DENKI Electric Europe GmbH

URL : <https://www.kokusaidenki.eu>  
**Frankfurt Head Office**  
Siemensstr. 9, D-63263 Neu-Isenburg, Germany  
Phone : +49 (0) 6102-8332-0, Fax : +49 (0) 6102-8332-499  
**London Office**  
Orion House, Bessemer Road, Welwyn Garden City, Herts,  
AL7 1HH, UK  
Phone : +44 (0) 7808 330195

### KOKUSAI DENKI Electric Linear S/A

URL : <https://www.kokusaidenki.com.br>  
Avenida Frederico de Paula Cunha,  
1001 - Maristela  
Santa Rita do Sapucaí - MG - Brasil - CEP: 37540-000  
Phone : +55 (35) 3473-3473, Fax : +55 (35) 3473-3474

### KOKUSAI DENKI Electric Asia Pte. Ltd.

URL : <https://www.kokusaidenki.com.sg>  
9 Tampines Grande, Asia Green, #02-00,  
Singapore 528 735  
Phone : +65-6911-6794