

## 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



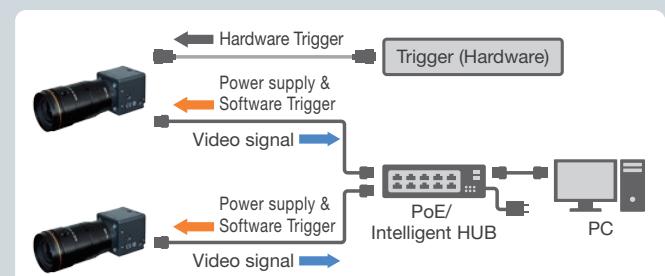
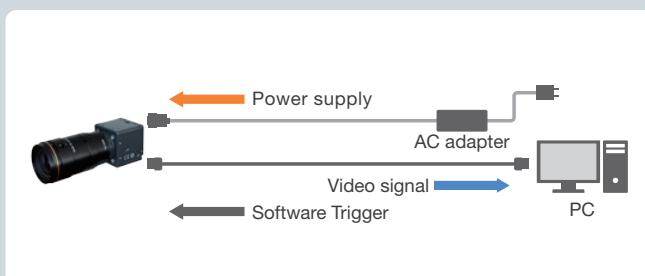
#### MANUFACTURING

Utilized across various equipment and manufacturing sites

### ● Connection Examples

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

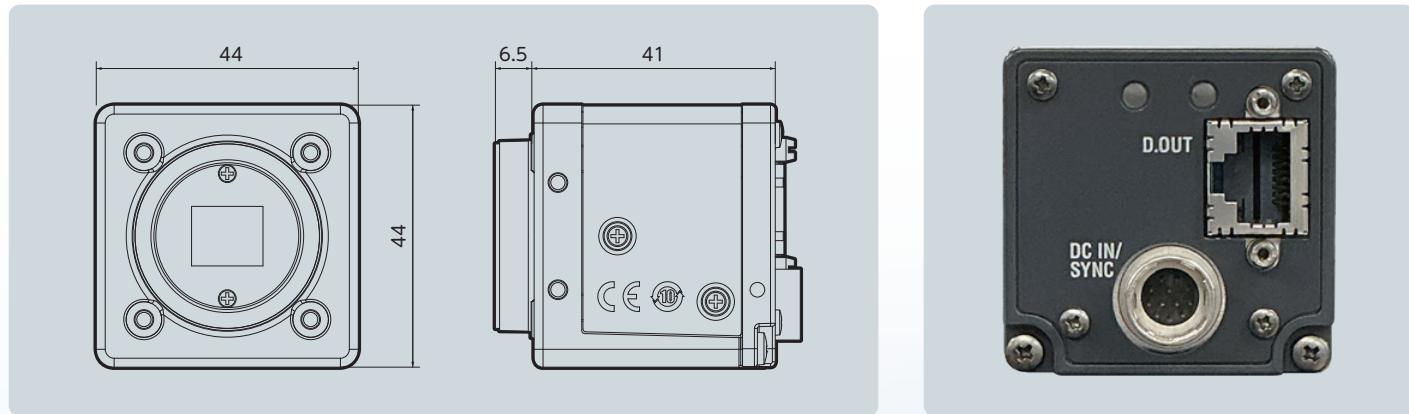
Connect multiple cameras using a hub (including PoE), and support software/hardware trigger.



## ● 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 x 4.0µm		3.4µm x 3.4µm
Imaging area	8.19mm x 4.8mm	8.32mm x 6.96mm	13.93mm x 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) x 44(H) x 41(D)mm, Approx. 125g	

## ● External Dimensions



\* 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.

## ● Rear View

**⚠ 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