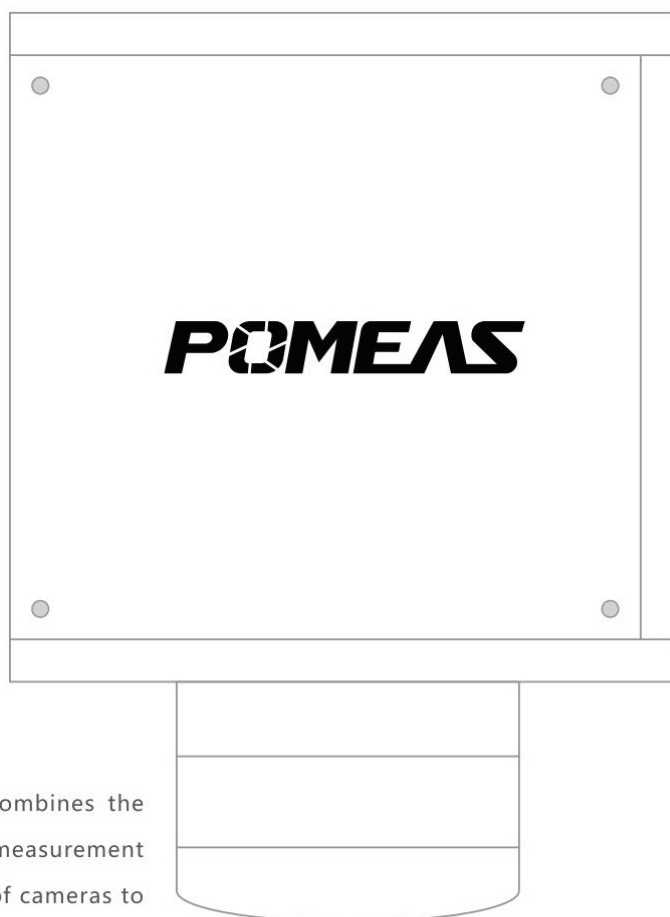


# INDUSTRY CAMERA SERIES

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According to customer requirements, and combines the characteristics of the machine vision and measurement industry, Pomeas make personalized design of cameras to match with POMEAS lenses, which maximizes the performance of the system. It is suitable for machine vision, industrial inspection, microscopic imaging, visual positioning, dimensional measurement and other industries.



## Gigabit Industry Camera

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The new generation camera has lower power and smaller dimension, transmission speed 1000m bit/s, compatible with fast ethernet. Low power consumption, low noise, high stability, clear and colored image can be provided in all kind of color temperature and situation.

### PRODUCT ADVANTAGES

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- 1.GigE Vision ( 1000M bit/s);
- 2.1.3MP to 29MP CCD and CMOS sensor;
- 3.Exquisite heat radiation design;
- 4.Compact structure, lower power consumption, high SNR ;
- 5.High resolution, big sensor.

### APPLICATION FIELDS

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Suitable for machine vision, industry inspection, micro imaging, visual positioning, dimension measurement, etc..

Gigabit Camera Parameter

| Code                | PMS-GE130D-M                                                          | PMS-GE130D-C      | PMS-GE200D-M                                                          | PMS-GE200D-C   | PMS-GE500D-M                                                          | PMS-GE500D-C             | PMS-GE1200M-M                                                         | PMS-GE1200M-C        | PMS-GE2900C-M/C                                                       |
|---------------------|-----------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|----------------|-----------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------|
| Item                | #320-130                                                              | #320-131          | #320-132                                                              | #320-133       | #320-134                                                              | #320-135                 | #320-136                                                              | #320-137             | #320-138                                                              |
| Resolution          | 1.3MP(1280*960)                                                       |                   | 2MP(1600*1200)                                                        |                | 5MP(2456*2058)                                                        |                          | 12MP(4096*3072)                                                       |                      | 29MP(6576*4384)                                                       |
| FPS                 | 30                                                                    |                   | 39.8                                                                  |                | 1520                                                                  |                          | 9                                                                     |                      | 3.9                                                                   |
| Bit Depth           | 12                                                                    |                   | 14                                                                    |                | 14/12                                                                 |                          | 8/10                                                                  |                      | 8                                                                     |
| Camera Interface    | Gigabit ( 1000Mbit/s )                                                |                   | Gigabit ( 1000Mbit/s )                                                |                | Gigabit ( 1000Mbit/s )                                                |                          | Gigabit ( 1000Mbit/s )                                                |                      | Gigabit ( 1000Mbit/s )                                                |
| Type                | CCD                                                                   |                   | CCD                                                                   |                | CCD                                                                   |                          | CMOS                                                                  |                      | CCD                                                                   |
| Sensor Size         | 1/3"                                                                  |                   | 1/1.8"                                                                |                | 2/3"                                                                  |                          | 4/3"                                                                  |                      | Full frame                                                            |
| Pixel Size(μm)      | 3.75                                                                  |                   | 4.4                                                                   |                | 3.45                                                                  |                          | 4.5                                                                   |                      | 5.5                                                                   |
| Shutter Type        | Global Shutter                                                        |                   | Global Shutter                                                        |                | Global Shutter                                                        |                          | Global Shutter                                                        |                      | Global Shutter                                                        |
| Output Color        | Mono                                                                  | Color             | Mono                                                                  | Color          | Mono                                                                  | Color                    | Mono                                                                  | Color                | Mono/color                                                            |
| Power Consumption   | 2.6W                                                                  |                   | 2.4W                                                                  |                | 2.5W                                                                  |                          | 12V~9W                                                                |                      | 6W                                                                    |
| Output Format       | Mono8/10/10P/12/12P                                                   | Mono8/10/12 Bayer | Mono8,Mono16                                                          | Bayer8,Bayer16 | Mono8/10packed                                                        | Mono8 , Bayer GR8/10/10P | Mono8/10/10packed                                                     | BayerRG8/10/10packed | Mono8 , Bayer8                                                        |
| Synchronization     | External trigger,soft trigger or automatic run                        |                   |                                                                       |                |                                                                       |                          |                                                                       |                      |                                                                       |
| Inner Function      | External trigger jitter,hot spot correction,check-up table            |                   |                                                                       |                |                                                                       |                          |                                                                       |                      |                                                                       |
| Flash Synchronize   | One-way optical coupling isolation                                    |                   | One-way optical coupling isolation                                    |                | One-way optical coupling isolation                                    |                          | Three-way optical coupling isolation                                  |                      | Two-way optical coupling isolation                                    |
| External Trigger    | One-way optical coupling isolation                                    |                   | One-way optical coupling isolation                                    |                | One-way optical coupling isolation                                    |                          | Three-way optical coupling isolation                                  |                      | Two-way optical coupling isolation                                    |
| Drive               | POMEAS SDKor the third party compatible Gige Vision standard software |                   | POMEAS SDKor the third party compatible Gige Vision standard software |                | POMEAS SDKor the third party compatible Gige Vision standard software |                          | POMEAS SDKor the third party compatible Gige Vision standard software |                      | POMEAS SDKor the third party compatible Gige Vision standard software |
| Operation System    | Windows XP,Win7,Win8 , 32bit and 64bit                                |                   | Windows XP,Win7,Win8 , 32bit and 64bit                                |                | Windows XP,Win7,Win8 , 32bit and 64bit                                |                          | Windows XP,Win7,Win8 , 32bit and 64bit                                |                      | Windows XP,Win7 ,32bit and64bit                                       |
| Compatible          | GigE Vision V1.2                                                      |                   | GigE Vision, GenICam, GenTL                                           |                | GigE Vision, GenICam, GenTL                                           |                          | GigE Vision, GenICam, GenTL                                           |                      | Gige Vision ,GenICam,GenTL                                            |
| Power               | 12V DC(±10%)6-pin Hirose plug                                         |                   | 12V DC(±10%)6-pin Hirose plug                                         |                | 12V DC(±10%)6-pin Hirose plug                                         |                          | DC12-24V                                                              |                      | 12V DC(±10%)6-pin Hirose plug                                         |
| Mount               | C-Mount                                                               |                   | C-Mount                                                               |                | C-Mount                                                               |                          | M58x0.75 Back focal length12.3mm (Can change F-Mount,V-Mount)         |                      | F-Mount                                                               |
| Working Temperature | 0℃~50℃                                                                |                   | 0℃~50℃                                                                |                | 0℃~50℃                                                                |                          | -30℃~50℃                                                              |                      | 0℃~50℃                                                                |
| Dimension           | 29mm*29mm*42mm                                                        |                   | 32.1mm*31mm*30mm                                                      |                | 32.1mm*31mm*30mm                                                      |                          | 76mm*76mm*46mm                                                        |                      | --                                                                    |
| Weigt               | 68g                                                                   |                   | 50g                                                                   |                | 50g                                                                   |                          | 450g                                                                  |                      | --                                                                    |

VGA Camera

VGA Camera Parameter

| Code                | PSM-VGA100                                             | PSM-VGA130-A                   | PSM-VGA130-B                   |
|---------------------|--------------------------------------------------------|--------------------------------|--------------------------------|
| Item                | #340-225                                               | #340-226                       | #340-228                       |
| Resolution          | 1280x720                                               | 1280x1024                      | 1280x1024                      |
| FPS                 | 60                                                     | 30                             | 30                             |
| Pixel Size          | 3.75μmx3.75μm                                          | 4.4μmx4.4μm                    | 4.4μmx4.4μm                    |
| Sensor              | 1/3"                                                   | 1/3"                           | 1/2.5"                         |
| Output              | VGA                                                    | VGA                            | VGA                            |
| White Balance       | One button set-up,can adjust manually or automatically |                                |                                |
| Avold Glare Option  | 3 grade option                                         | One button                     | One button                     |
| Edge Sharpness Mode | 3 grade option                                         | No                             | No                             |
| Color Adjustment    | R/G/B adjustable independently                         | R/G/B adjustable independently | R/G/B adjustable independently |
| Inner Reticle       | Center reticle or 8 movable lines                      |                                |                                |
| Mount               | C-Mount                                                | C-Mount                        | C-Mont                         |
| Voltage Input       | DC-5V                                                  | DC-5V                          | DC-5V                          |
| Dimension           | 51mmx51mmx57mm                                         | 52.5mmx51mmx60mm               | 61mmx61mmx65mm                 |
| Working Temperature | 0℃~80℃                                                 | 0℃~80℃                         | 0℃~80℃                         |
| Photo Storage SD    | No                                                     | No                             | Sd card                        |

Feature :

- 1. Mega pixels, 1280x1024;
- 2. Progressive scanning, ensure sharp image without twinkle;
- 3. SD card storage function;
- 4. 8:8:8 RGB full color output;
- 5. Connect directly with display, vivid color;
- 6. inbuilt function menu, user friendly;
- 7. Stable 30fps output, no real-time delay.





## HDMI Camera

### HDMI Camera Parameter

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Code                | PMS-HM200                                         |
| Item                | #330-223                                          |
| Resolution          | 2MP 1920x1080                                     |
| FPS                 | 60                                                |
| Pixel Size          | 3.75μm                                            |
| Sensor              | 1/3"                                              |
| Output              | HDMI                                              |
| White Balance       | One Button For White Balance                      |
| Avoid Glare Option  | 3 grade option                                    |
| Edge Sharpness Mode | 3 grade option                                    |
| Color Adjustment    | R, G, B adjustable independently                  |
| Inner Reticle       | Center reticle or 8 movable lines                 |
| Line Width          | One Pixel                                         |
| Mount               | C-Mount                                           |
| Voltage Input       | DC-5V                                             |
| Dimension           | 61mm x 61mm x 57mm                                |
| Working Temperature | 0°C~50°C                                          |
| Photo Storage SD    | Memory Card(below 32G),Photoing hand shank/button |

### Feature :

1. 2MP high resolution, 1920x1080;
2. 60/fps high speed image, no delay in real-time;
3. New color calculation, ensure the real color;
4. HDMI digital high resolution output, support 16:9 display;
5. Independent color adjustment, special multiply wide dynamic function;
6. With cross line, it can be moved and overly;
7. SD card storage function;
8. With edge enhancement mode, it can improve the special image performance.