

# M124MP

## BIW Progressive Scan CCD Video Camera



**22 x 22 x 22 mm**

- **1/3" Progressive Scan CCD Image Sensor with Square pixel ICX424AL**
- **Resolution 640 (H) x 480 (V) VGA**
- **High Speed Image Output, 60fps**
- **External Trigger**
- **Restart / Reset, Internal/External Sync**
- **Electronic Shutter**
- **22 (H) x 22 (W) x 22 (D)mm**
  
- **Application**
  - Machine vision
  - Factory automation
  - Quality control

# Technical Data

## Type Image sensor

Effective pixels  
Unit pixel size  
Image Area  
Scanning lines  
TV system  
Video output format

Sync system  
Aspect ratio

Illumination  
Video output

Resolution  
S/N

Gain  
Gamma correction  
White-clip level  
Power source  
Power consumption

## External sync spec

Ext. sync input signal  
Input level  
Interlace

## Trigger spec

Input level  
Input impedance

## Electronic shutter spec

Normal Shutter

## Mechanical spec

External dimension  
Weight  
Lens mount

## Ambient condition

Operation  
Storage  
EMI

## Output Connector

### M124MP

1/3" Progressive Scan Interline CCD  
Type: ICX424AL-6  
659 (H) x 494 (V)  
7.4 (H) x 7.4 (V)  $\mu$ m (Square grid array)  
4.8 (H) x 3.6 (V) mm  
525 lines  
Conform to EIA  
1/60s non-interlace mode = 60fps  
1/30s non-interlace mode = 30fps  
Internal/External  
4:3  
Minimum: 1Lux (F1.4 1/60s)  
VS 1.0V(p-p)/75 Ohm  
485 TV lines (H)  
Standard: 56 dB(p-p)rms  
0db ~ 32dB  
1.0 / 0.6 / 0.45  
Approx. 840mV(p-p) (Excluding SYNC)  
DC5V +/-10%, Ripple voltage: <50mV(p-p) or less  
Approx. 400mA (2W)

HD/VD  
TTL  
1/60s non-interlace / 1/30s non-interlace

LOW level: 0-0.5V(p-p), HIGH level: 4-5V(p-p)  
High impedance (10k Ohm)

Shutter speed setting via rear-panel SW (Initial:OFF)  
8 steps selectable (=OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000s)

22 (H) x 22 (W) x 22(D)mm  
App. 30g  
M12 mounting thread

Performance guaranteed: Temperature from 0 through 40°C / Humidity from 30 through 90% (no condensing)  
-5°C to 50°C / Humidity 20% to 80%  
-20°C to 60°C / Humidity 10% to 90%  
Conform to EN50081-2

Special Connector



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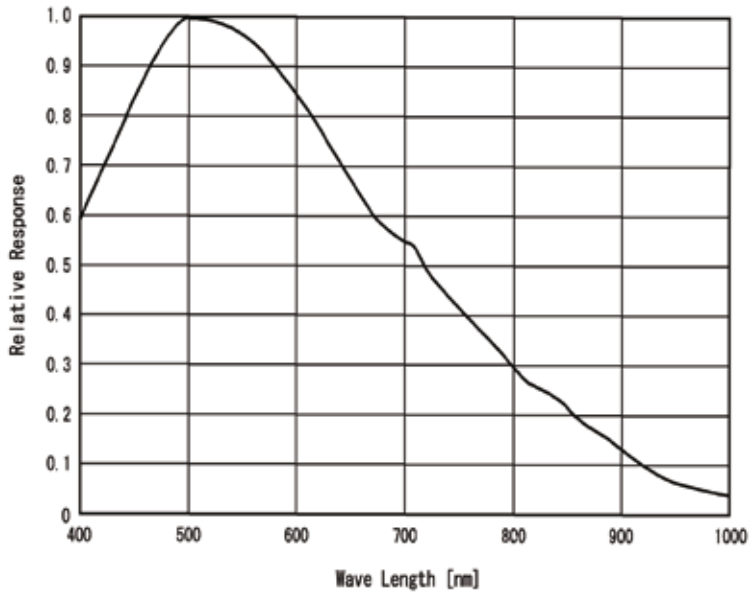
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## Camera block



## Outline

