



## 0.3M DVP Camera Module GC0308

### Key Properties

GC0308 Image Sensor

Output Formats: Raw Bayer / RGB565 / YUV422

Frame Rate:

30fps for 640(H)x480(V)

S-mount M7 Lens Holder



### Application

Security / Surveillance / Automotive Cameras / Industrial Machine Vision  
/ Consumer Electronics / Smart Home / IoT Devices / AI Vision

### Feature

- ◆ VGA(640x480) image sensor GC0308
  - Low illumination and high dynamic range sensor
- ◆ Megapixel M7 lenses optional
- ◆ RGB565 / YUV422
- ◆ DVP parallel Output
- ◆ STM32 or ESP32 Application

### Introduction

DCM03M30M7 is a high-performance VGA CMOS image sensor developed by GalaxyCore, designed for applications that demand excellent image quality, low-light sensitivity, and efficient power consumption. Featuring a  $648 \times 488$  (VGA) resolution with  $3.4 \mu\text{m}$  pixel size, it delivers sharp, detailed images even in challenging lighting environments.

Equipped with an advanced electronic rolling shutter, the DCM03M30M7 supports a wide dynamic range , enabling effective capture of both bright and dark regions in the same scene.

Thanks to its low power consumption ( $\sim 70 \text{ mW}$ ) and high sensitivity, the DCM03M30M7 is ideally suited for:

- Toys
- Bar code reader
- Video telephony and conferencing equipments
- Industrial vision systems

**Specifications**

Model	DCM03M30M7
Sensor	GC0308
Image Size	1/6.5 inch
Pixel Size	3.4 x 3.4 $\mu\text{m}$
Image Area	2203 $\mu\text{m}$ x 1659 $\mu\text{m}$
Image Pixels & Resolution	648(H) x 488(V)
Output Formats	RGB565 / YUV422
Image Transfer Rate	Full resolution (640x480): 30 fps 352x288 @30fps 320x240 @30fps
SNR	TBD
Dark Current	TBD
Sensitivity	TBD
Shutter Type	rolling shutter
Lens Parameters	Standard: FOV(D)60°
Lens Holder	Standard M7 lens holder
Power Supply	External Power
Operating Voltage	DC 2.8V
Power Consumption	70mW (Active) < 10uA (Standby)
Operating Temperature	-30 ~ 80°C
Stable Image Temperature	-10 ~ 60°C
Total length	21mm
FFC Pin Numbers	24
FFC Pin Pitch	0.5mm

Specifications are subject to change without notice.



## Sensor Board Drawings

