

D-Robotics

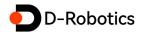
RDK X3 Camera Module RS400W



V1.1.0

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D-ROBOTICS HOLDING LIMITED



D-Robotics RDK X3 Camera Module RS400W





The RS400W HD camera module is specially optimized for the RDK X3 platform, featuring a compact design with high sensitivity and low noise for excellent imaging performance. It connects directly via a standard CSI interface and supports up to 2560×1440 resolution at 60 FPS, making it an ideal solution for robotic vision, industrial inspection, and other applications.

BRIEF

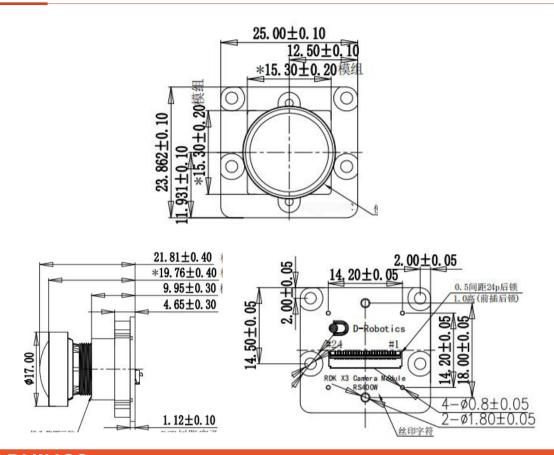
The RDK X3 RS400W camera module uses the GC4663 CMOS sensor, supporting 4 megapixels at 60 FPS for high-definition imaging. It is equipped with a 104° wide-angle lens and features automatic exposure and white balance. With a 24-pin direct connection design, it is an ideal choice for machine vision applications.

SPECIFICATIONS

Image Sensor	GC4663 CMOS
Resolution	4 Megapixels, supports up to 2560×1440 at 60 FPS
Field of View	Horizontal 104° / Vertical 70° / Diagonal 113°
Aperture	F2.4
TV Distortion	<-2.7%
Connection	24-pin flat cable direct connection
Image Control Features	Auto Exposure / Auto White Balance
Operating Temperature	-30°C to 85°C (Stable Imaging: 0°C to 60°C)
Lens Size	1/3 inch
Dimensions	24 × 25 × 22 mm
Weight	8 grams
Lifecycle	Mass production maintained at least through 2030



Dimension



WARNINGS

- Do not plug or unplug the camera module while powered on to avoid damaging the connector.
- Ensure the power supply voltage meets the specification (5V ±5%).
- \blacksquare Do not use the module outside the operating temperature range (-30°C to 85°C).
- Avoid using in environments with strong electromagnetic interference or high humidity.
- Do not apply mechanical impact to the lens or directly touch the optical elements.
- Prevent foreign objects from entering the connector terminals.

SAFETY INSTRUCTIONS

To Avoid Malfunction Or Damage:

- Installation and removal must be performed by qualified personnel.
- Ensure the 24-pin connector is aligned with the slot and inserted vertically.
- Regularly inspect the cable connection status.
- Use dedicated lint-free cloth and optical cleaner for lens cleaning.
- Store in anti-static packaging when not in use.

For detailed specifications, please visit: https://developer.d-robotics.cc/en

