

# D-Robotics

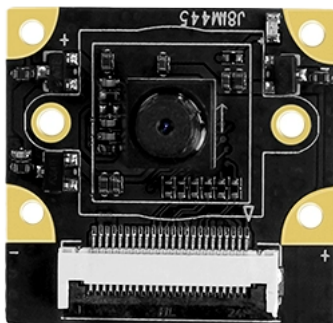
## RDK X3 Camera Module RS800W



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D-ROBOTICS HOLDING LIMITED

# D-Robotics RDK X3 Camera Module RS800W



The RS800W dedicated HD camera module features a compact design and is equipped with a high-sensitivity sensor. It delivers high-speed and stable image transmission through the CSI interface, providing a professional-grade imaging solution for AI vision applications such as industrial inspection and robotic navigation.

## BRIEF

The RDK X3 RS800W camera module is equipped with the Sony IMX219 PQ CMOS sensor, offering 8-megapixel high-definition imaging and a 77° wide-angle lens with optical distortion below 1%. The module connects directly via a 24-pin MIPI CSI interface and supports automatic exposure and white balance. With an ultra-thin design and a 1/4-inch lens specification, it is an ideal choice for high-precision vision applications including mobile robots and intelligent surveillance.

## SPECIFICATIONS

<b>Image Sensor</b>	Sony IMX219 PQ CMOS fixed-focus module
<b>Resolution</b>	8 megapixels, supports up to 3280×2464 at 30 FPS
<b>Field of View (Diagonal)</b>	77°
<b>Focal Length</b>	2.96 mm
<b>Distortion Rate</b>	<1%
<b>Connection</b>	24-pin flat cable direct connection
<b>Image Control Features</b>	Auto Exposure Control / Auto White Balance
<b>Operating Temperature</b>	-30°C to 85°C (Stable Imaging: 0°C to 60°C )
<b>Lens Size</b>	1/4 inch
<b>Dimensions</b>	24 × 25 × 6 mm
<b>Weight</b>	3 grams
<b>Lifecycle</b>	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  $\pm$ 5%).
- 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>



<https://developer.d-robotics.cc>