

Pre-sales and After-sales FAQs

• What are the advantages of choosing Raytron OEM infrared thermal modules?

The Raytron module is compact and energy-efficient, built on in-house developed ASIC technology, high-performance sensors, and advanced algorithms. It delivers high-contrast images with rich detail, automatically adapts to various scenes, and highlights targets of interest. Thanks to its shutterless design, the module ensures smooth video playback. Additionally, it provides accurate and stable temperature measurement, making it a reliable solution for thermal imaging applications. Backed by our dedicated pre- and post-sales teams, we provide comprehensive support at every stage.

• Are Raytron OEM thermal modules low-power?

Yes, Raytron modules are built on the self-developed ASIC, so that low power consumption is a key characteristic. Below is some typical power consumptions@25°C.

TC-2C(256*192): 0.28W WN2 384(384*288): 0.42W
WN2 640(640* 512): 0.7W SE5 1280: 1.3W

• What resolutions do Raytron OEM thermal modules support?

Raytron OEM thermal modules support a range of resolutions, from lower to higher definition.

Available options include 160×120, 256×192, 384×288, 640×512, 1280×1024, and others.

For further details, please contact our sales team.

• What output interfaces do the modules support?

They support multiple output interfaces, including USB, CVBS, DVP, MIPI, and SPI. Please contact sales for the product manual with detailed information.

• What control interfaces do the modules support?

The thermal modules support USB, I²C and UART. Please contact sales for the full product manual.

• What is the simplest way to connect the WN2 thermal modules?

During the initial testing stage, we provide a Windows application and the related kits. Simply connect the module to your laptop via USB, and you can view the image and test its functions through the application.

For the most basic product design, only a power supply and an analog display are needed for the module to output immediately—no processor is required in this solution.

If you wish to add setting controls or capturing digital video output, a processor on your platform is necessary.

Dedicated interface boards with CVBS and USB are available for both testing and mass production.

• What software resources can I obtain for development on the thermal modules?

You can obtain Windows PC software, Windows/Linux/RTOS/Android SDK, command lists, and more.

• Can I get the module without a lens?

Yes, WN2 series thermal modules without lens are available.

• Are details of the WN2 thermal modules optical interface available for customers who want to use a third-party lens with the camera?

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Yes. We can provide the related 2D/3D mechanical materials, enabling customers to design their own lenses based on the specifications. We also provide technical support about calibration.

Company Profile

Raytron OEM is a wholly-owned subsidiary of Raytron Technology Co., Ltd., providing global customers with infrared detectors, core modules, and industry solutions.

Our products are widely used in various fields, including infrared temperature measurement, night vision observation, machine vision, intelligent driving, Commercial Drone, smart industry, security monitoring, Internet of Things, medical epidemic prevention and gas detection.

With the mission of "to create incremental value for customers with technological advancements", we are committed to leaving a name in the history of constantly expanding human perception capabilities.



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