



## Raytron Unveils Infrared Vision-Language Model at CIOE 2026, Advancing Thermal Imaging from Perception to Understanding

### Descrizione

COMUNICATO STAMPA - CONTENUTO PROMOZIONALE

SHENZHEN, China, Sept. 17, 2026 /PRNewswire/ - As AI expands beyond content generation to perceiving and understanding the physical world, intelligent sensing is becoming increasingly important across industrial applications. At CIOE 2026, Raytron, a global leader in infrared thermal imaging, unveiled its Infrared Vision-Language Model, extending infrared imaging beyond image acquisition toward intelligent understanding. Raytron also introduced Falcon 500, its third-generation AI image processing chip, and showcased the latest advancements in its 8  $\mu\text{m}$  and 12  $\mu\text{m}$  infrared detector portfolios.

### Why Does Infrared Imaging Need a Dedicated Vision-Language Model?

Unlike visible-light imaging, which primarily captures reflected light, infrared thermal imaging detects radiation emitted by objects, revealing unique information such as temperature, heat distribution, and thermal signatures. Most general-purpose vision models are trained primarily on large-scale visible-light data and are not specifically designed to interpret the unique characteristics of infrared imagery. Raytron's Infrared Vision-Language Model is designed to address this challenge through:

### Advancing Infrared Sensing with Falcon 500 and 8 $\mu\text{m}$ HD Infrared Detectors

The launch was accompanied by further advances in infrared image processing and detectors. The company unveiled Falcon 500, its third-generation infrared AI image processing chip, bringing enhanced image quality, intelligent sensing, multimodal fusion, and precision temperature measurement.

At the exhibition, Raytron also showcased its expanded 8  $\mu\text{m}$  lineup, spanning resolutions from 640 $\times$ 512 to 1280 $\times$ 1024, alongside upgraded 12  $\mu\text{m}$  products offering NETD as low as 15 mK.

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For Further Information

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