

FOVEA EDGE COMPUTER VISION

ECV275



Specification

Processor

GPU - NVIDIA Ampere with 2048 CUDA® cores and 64 Tensor cores
CPU - 12-core Arm Cortex-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
DL Accelerator - 2x NVDLA v2.0
Vision Accelerator - PVA v2.0
Memory - 32GB 256-bit LPDDR5 204.8 GB/s
Storage - 64GB eMMC 5.1
Video Encode - 2x 4K60 | 4x 4K30 | 8x 1080p60 | 16x 1080p30 (H.265)
Video Decode - 1x 8K30 | 3x 4K60 | 6x 4K30 | 12x 1080p60 | 24x 1080p30

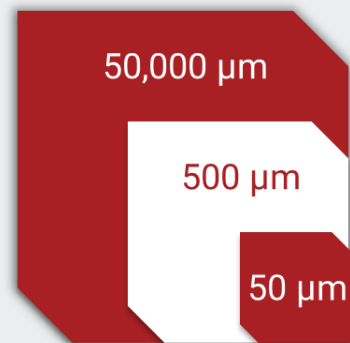
Camera Key Specification

Size (L x W) - 30 mm x 30 mm
Maximum image resolution - 3840 x 2160 (8 MP)
Supported Resolution and Frame Rates
 1920 x 1080* / Frame Rate(fps) in 10-bit -90 / 12-bit Output -90
 3840 x 2160 / Frame Rate(fps) in 10-bit -72 / 12-bit Output -60
Contact us for choice of other industrial grade cameras

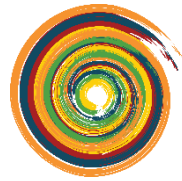
CMOS Image Sensor Specifications

Type / Optical size - 1/1.2" CMOS Solid-State image sensor
Resolution - 8 MP
Sensor Type - RGB RAW 10/12-bit
Pixel size - 2.9 µm x 2.9 µm
Total number of Pixels - 3864(H) x 2200(V)
Sensor effective area - 3864(H) x 2180(V)
Contact us for custom lighting, image sensor and i/o requirements

**EDGE AI COMPUTE
FOR HIGHLY
COMPLEX SURFACE
INSPECTION**



Detection Range



Fovea Edge Computer Vision Applications



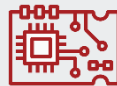
Automotive

Component surface inspection,
Paint finish inspection,
Quality and metrology lab



Healthcare and Pharma

Chemical, Vial, Pills inspection, in-
use equipment testing, installation
and commissioning



Electronics & Electrical

IC moulding & IC lead cosmetic
defect inspection, Micro cracks of
WLCSP, Edge chipping and burrs
after dicing, Probe marks



Food & Beverages

Label, fill level, counting, cosmetic
defects inspection, traceability,
packaging inspection



Data-fusion of multi- sensor inputs

Enable multi-sensor data
processing for inspection,
maintenance, and operation.



Operator input detection

Improve UI/UX with gesture
identification and audio commands.



AR / VR applications

Heads-up display for operator
interactions and information.



Mobile control

Interact with and carry your entire
digital control ecosystem.

Fovea Edge Computer Vision Libraries



Galvanized Steel



Non-Galvanized steel



**Fluorescent & Magnetic
penetrant inspection**



Glass



Labels and Stickers



Textile

CONTACT

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