

ERUTM128-25

ERUTM128 Series

1280 x 1024 Uncooled Thermal Camera Core - 25 mm Lens

The ERUTM128-25 is a 1280 x 1024 / 12 um uncooled thermal camera core. The 25 mm lens gives the widest field of view in the 1280 series (34.2 deg horizontal), so a single payload can cover a large area while still

FIELD OF VIEW & DETECTION (typical, 1.7 m x 0.5 m human target)

Lens 25 mm | HFOV 34.2 deg | VFOV 27.6 deg Detection ~2350 m | Recognition ~1200 m

Detection ranges are estimates (Johnson criterion) and vary with target size, thermal contrast and atmosphere.

SPECIFICATIONS

Detector type	Uncooled VOx infrared focal plane array
Resolution / pixel pitch	1280 x 1024 / 12 um
Spectral range	8 - 14 um (LWIR)
NETD	<=30 mK @ F#1.0 / 25 C
Effective pixels	1280 x 1024
Frame rate	25 Hz / 30 Hz / 50 Hz
Lens (standard)	25 mm
Field of view (H x V)	34.2 deg x 27.6 deg
Video formats	YUV420 / YUV422 / RGB888 / RAW
Start-up time	<= 7 s
Digital zoom	Centre zoom 1x / 2x / 4x / 8x
Palettes	10 types
Digital video interface	DVP16 / BT1120 / USB3.0 / MIPI-DSI-4LANE
Expansion interface	USB3.0 / SDI / HDMI / GIGE / CameraLink / VPC / MIPI-CSI-2LANE
External expansion	50 pin: BP040SB-50-0114-B-R0; TTL-232 / USB3.0
Display driving	I2C, 16/24-bit parallel; MicroOLED MDP03/MDP02, Olightek SVGA060, Sony ECX334A; MIPI for IBOE VX039FHP-NH4
Supply voltage	2.7 V - 5.3 V
Power consumption	<= 1.2 W @ 25 Hz @ 23 +/- 3 C
Dimensions (bare core)	38 x 39 x 28 mm (fixed focal 14/19/25/35 mm); 68 x 69 x 24.7 mm (50 mm and motorised / continuous zoom options)
Software support	Windows and Linux (USB3.0)
Lens options	Fixed: 14 / 19 / 25 / 35 / 50 mm; motorised focus: 75 / 100 / 150 mm; continuous zoom: 25-75 / 28-90 / 30-180 / 30-300 mm

TYPICAL APPLICATIONS

Wide-area UAV surveillance, security and border monitoring, industrial inspection, robotics vision