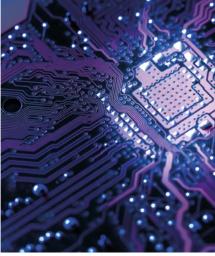
B&W and color



Part of the Teledyne Imaging Group

Perfectly Combining Precision and Speed







When selecting a CMOS image sensor, OEM and camera manufacturers are often forced to compromise between precision or speed. The new Emerald 67M uniquely delivers both, enabling vision specialists to create extremely accurate and high speed vision systems.

SENSOR FEATURES

Ultra-high precision

- 8k resolution per side

More objects captured in a single high resolution shot with up to 64 ROIs

Cost-effective optics

with an APS-C optical format

High image processing throughput with 60fps frame rate @ full resolution

CUSTOMER BENEFITS

Cost-effective

and seamless integration

Easier long-distance object identification

Extremely accurate detection

of short and open circuits

More efficient inspection

for TFT-LCD and OLED panels



KEY BENEFITS

- » 67M resolution resulting in 8k UHD resolution per side
- » 2.5µm CMOS global shutter pixel allowing true CDS
- » Up to 60fps @ full resolution & 10 bits
- » 2 speed grades
- » APS-C optical format
- » Optical center is centered in package
- » Ceramic µPGA package
- » 72 LVDS outputs @ 830Mbps
- » Power consumption: ≤3W @ full speed & full resolution

EMBEDDED FEATURES

- » Horizontal sub sampling
- » Look-up table
- » Defective pixel correction
- » FPN correction
- » Flipping/mirroring
- » Image statistics and context output
- » Multiple trigger modes
- » SPI controls
- » ROI (up to 64, overlap and independent configurations allowed)
- » High Dynamic Range modes
- » Binning

TYPICAL APPLICATIONS

- » High-end electronic inspection
- » Display inspection
- » High-end surveillance
- » Microscopy