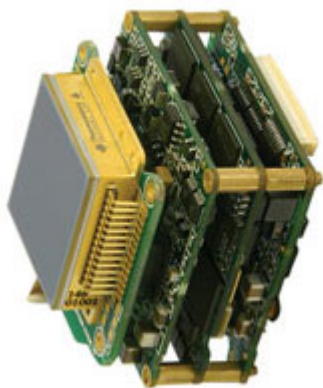




The new MIRICLE® 110KS-25 High Performance Miniature Thermal Imager



The new MIRICLE® 110KC-25 camera core incorporates a state of the art 25µ lightweight detector



The new MIRICLE® 110KS-25 is a sealed and waterproof infrared camera unit

## Announcing the new MIRICLE® 110K-25

Thermoteknix is proud to announce the release of the MIRICLE 110K-25 thermal imaging camera incorporating new 25 micron detector technology with optional super-sensitivity modes in a smaller, lighter package.

The MIRICLE 110K-25 is a new member of the MIRICLE 110K 384 x 288 miniature infrared camera and core family, adding to the existing 35 micron detector range. Both 35 and 25 micron cameras use 384x288 un-cooled microbolometer focal plane array (FPA) detectors and are sensitive in the longwave Infrared (7-14µm) band. The MIRICLE 110K-35 and MIRICLE 110K-25 operate without Thermo-electric stabilization (TEC-less) and are also available with Thermoteknix unique proprietary shutterless MIRICLE XTi models for uninterrupted, instant-on, high performance thermal imaging.

With a smaller sensor pitch, the thermal sensitivity and response time of the new 25 micron Miricle models achieve <60mK at 27°C and 7mS time constant performance at 50/60 Hz. The MIRICLE 110K-25 is available with optional super-sensitivity mode offering up to 10 – 35 mK NEDT for selected applications where small temperature difference or long range detectivity are needed.

The reduced pixel pitch of the MIRICLE 110K-25 enables smaller, lightweight optics to be used and allows increased detection range for a given focal length when compared with larger pitch detectors. With a fully assembled weight of 85 g (without lens) the MIRICLE 110K-25 is ideal for UAV and field portable applications.

For example, for a 75mm lens, the Johnson criteria show:

	FOV	IFOV	Man detection range
110K (35µm pitch)	10.2°	0.47 mRad	1,429m
110K-25 (25µm pitch)	7.3°	0.33 mRad	2,000m

The New MIRICLE 110K-25:

- Improved Detection Recognition and Identification ranges
- Super-Sensitivity option
- Low weight (80g 110K-25 XTi, 95g 110K-35 XTi)
- Optional low-mass optics .

Please contact Thermoteknix for demonstration or pricing information.

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*MIRICLE 110K-25μ camera delivers Superb Image Quality*

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