

# TAMARISK®

HIGH PERFORMANCE IN A LOW-SWAP PACKAGE



The Tamarisk provides superior performance for applications that require a small size, weight and power consumption. Features include 640 x 480 resolution w/17 micron pitch.

## DETAILS

The Tamarisk® is superior performance in a low-SWaP package. Built inside a sturdy enclosure, this camera modules provide greater sensitivity and superior image quality at an affordable price. Tamarisk® modules produce high quality imagery during day, night and harsh conditions such as smoke, dust, haze and fog.

## APPLICATIONS

- + Security and Surveillance
- + Airborne
- + USBc Ready



- + 17  $\mu\text{m}$  pixel pitch Patented Microbolometer
- + High-performance, cost-effective LWIR infrared camera core
- + Analog or digital video outputs
- + Image Contrast Enhancement (ICE™)
- + Integrated shutter for flat field correction
- + Compact, light, durable, versatile





# TAMARISK®

HIGH PERFORMANCE IN A LOW-SWAP PACKAGE

EXPORT CLASSIFICATION: DUAL USE

## FEATURE SPECS

### DETECTOR



Detector Type	Uncooled VOx Microbolometer
Array Format	640 x 480 or 320 x 240
Pixel Pitch	17 Micron
Spectral Response	LWIR
Frame Rate	640 - 30 Hz or 9 Hz 320 - 60 Hz or 9 Hz
Bit Depth	14-bit
NETD	<50 mK

### 640 ENVIRONMENTAL



Weight	No Lens: 100g 7.5 mm: 100g 9 mm: 105g 12.8 mm: 110g 14.25 mm: 110g
Input Voltage	3 - 5.5 V Base Configuration 4.5 - 18 V with Feature Board
Power Dissipation (nominal)	< 1.2 W Base Configuration <1.4 with Feature Board
Operating Temp Range	-40°C to + 80°C

### 320 ENVIRONMENTAL



Weight	No Lens: 29g 3.8 mm: 43g 5.3 mm: 45g 7.5 mm: 43g 7.5 mm: 59g
Input Voltage	3 - 5.5 V Base Configuration 4.5 - 18 V with Feature Board
Power Dissipation (nominal)	< 1.2 W Base Configuration <1.4 with Feature Board
Operating Temp Range	-40°C to + 80°C

### SYSTEM



Analog Video Output	NTSC (480i); PAL (576i) field switchable
Digital Video Output	14-bit/8-bit LVCMOS or Camera Link®
NUC	1-point with shutter or through lens
Image Enhancement	Image Contrast Enhancement
Digital Zoom and Pan	Region of Interest, E-zoom from 1X - 4X
Camera control/Command Interface/System Control	Base: LVCMOS UART, 14/8 Bit Digital Video (LVCMOS or Camera Link®) W/ Board:USB 2.0, RS-232, 14/8 Bit Digital Video (Camera Link®), Analog Video (NTSC, PAL)



**TAMARASK 640 Family**



**TAMARASK 320 Family**