

# MicroCube XP 640 (NEW)



**FXTRFMF PFRFORMANCE** 

### **KEY FEATURES**



**ULTRA-SWAP THERMAL CORE** 



**ADVANCED SHUTTERLESS IMAGING** WITH EMBEDDED CORRECTION



CONTOUR ENHANCEMENT: SHARPER DRI AND SUPERIOR OBJECT CLARITY



**COLUMN AND TEMPORAL DENOISING:** NETD halved from 40 mK to 20 mK



CONTRAST SHARPNESS CORE FOR **AUTOFOCUS MANAGMENT** 

The MicroCube XP (Extreme Performance) 640 delivers 640×480 resolution with a 12 µm pixel pitch and exceptional thermal sensitivity (NETD <20 mK), all in an ultra-compact form.

With fast startup (<0.7s), shutterless operation, and enhanced temperature stability, it ensures rapid, reliable performance. Contour enhancement provides improved contrast, DRI, and target visibility. Optimized for defense and missioncritical applications, its compact SWaP design and versatile interfaces enable seamless integration.



## MicroCube XP 640 (NEW)



#### **KEY PERFORMANCES**

Sensor	Micro-bolometer technology
Resolution / Pixel Pitch	640 x 480 pixels / 12 μm
Spectral Range	8 – 14 μm
Max NETD (F/1 ; 300K ; 30 Hz)	< 20 mK with denoising
Operating temperature range	-40°C to +70°C
Power consumption (DF40)	< 1.2 W
Qualification	MIL-STD-810G – Method 514 Vibration: 10Hz - 2kHz 13.95g per axis 10h per axis

### **FUNCTIONS & INTERFACES**

Image processing	BPC (Bad Pixel Correction), NUC (Non Uniformity Correction), Shutterless NUC
Image optimisation	AGC (Automatic Gain Control)
Output options	MIPI-CSI, DF40
Dimensions (L x W x H) (DF40)	22.0 x 22.0 x 26.8 mm <sup>3</sup>
Weight (DF40)	< 25 gr







