

## μCAM - FLIRs FOR SMALL UAVs

### AIRBORNE RECONNAISSANCE DURING DAY AND NIGHT

- Ruggedized design
- Low weight
- Good range performance in bad weather conditions due to high thermal resolution
- Short exposure times for sharp images from unstabilized platforms
- Digital and analog interface
- Full TV format 640 x 480

#### μCAM-640

- Cooled MCT IR-technology, MWIR
- Double field of view:  
NFOV 6.1° x 4.9° / WFOV 16° x 12°
- Identification range <sup>1)</sup>  
NFOV > 1,300m / WFOV > 560m
- Recognition range <sup>1)</sup>  
NFOV > 2,500m / WFOV > 1,000m
- Weight < 2.2kg

#### μCAM-640 uncooled

- Uncooled Microbolometer  
IR-technology, LWIR
- Field of view 45° x 34°
- Identification range <sup>1)</sup> > 200m
- Recognition range <sup>1)</sup> > 400m
- Weight < 200g

<sup>1)</sup> Tank target, STANAG 4347, TRM3, atm ext coeff 0.2/km

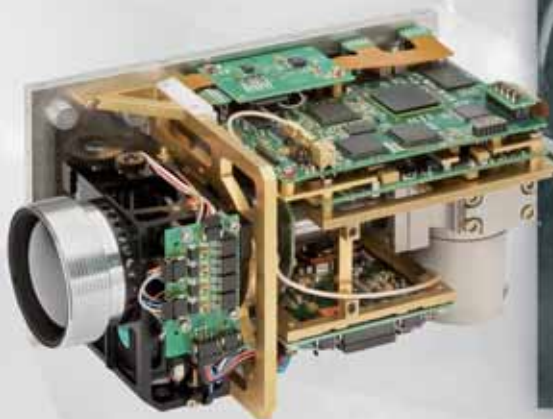


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### Technical Data

	μCAM-640	μCAM-640 uncooled
Detector	MCT 640 x 512 15μm MWIR	Microbolometer 640 x 480 25μm LWIR
Field of view	NFOV 6.1° x 4.9° / WFOV 16° x 12°	45° x 34°
Range performance		
Identification (*)	NFOV > 1,300m / WFOV > 560m	200m
Recognition (*)	NFOV > 2,500m / WFOV > 1,000m	400m
Weight	< 2.2kg	< 200g
Size	146mm x 100mm x 100mm	140mm x 80mm x 70mm
Interface	digital und analog	

(\*) in accordance with STANAG 4347 and TRM3-approach



### SPECIFIC CAPABILITIES

- Scene-based offset calibration
- Electronic zoom
- Automatic contrast and brightness adjustment for optimal image quality
- Always sharp image due to the use of thermal-controlled fixed focus optics
- Range performance not affected by UAV movements due to short integration time
- DFOV lens for enhanced resolution (μCAM-640)
- External synchronization to day TV camera possible (μCAM-640)

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