

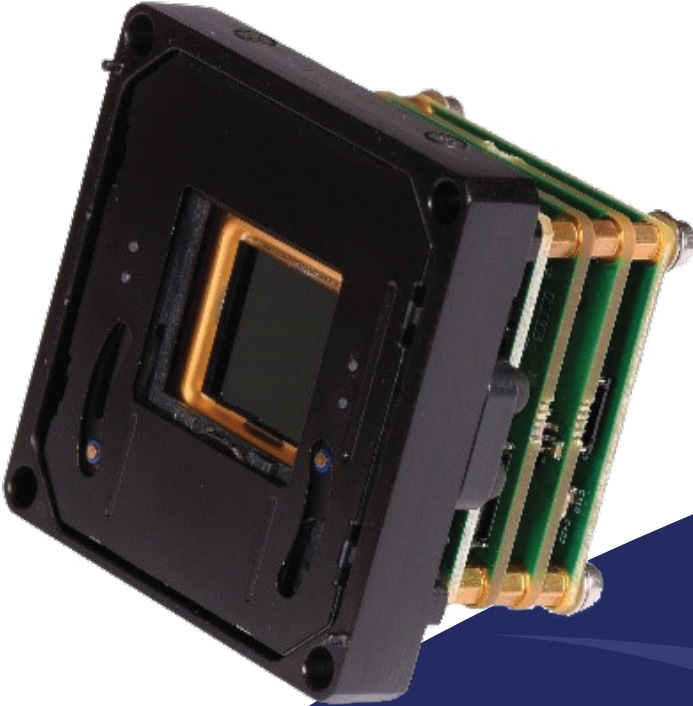


# TC12-100/TC17-100

## Uncooled Thermal Camera Modules

Field Proven  
Ultra Low Power  
VGA/XGA/SXGA Sensor Options

OV17/OV12 Series thermal cameras offer high imaging performance and used in many military and industrial applications such as surveillance systems, UAVs, IR seekers, thermal weapon sights and driver vision cameras.



Teknopark Ankara   
1368. Cadde, No:61/33  
Yenimahalle / ANKARA / TÜRKİYE  
+90 312 870 10 40   
info@avies.com 

www.avies.com



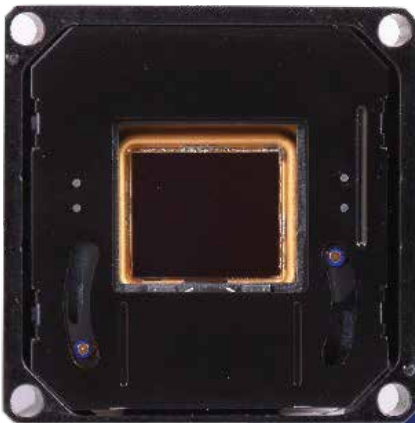
TC12-100 and TC17-100 devices are 12  $\mu\text{m}$  and 17  $\mu\text{m}$  pixel pitch thermal camera modules which offers excellent thermal imaging performance. They are ultra-low power (as low as **600 mW**) and has ultra-fast start-up time (smaller than 2 seconds).

These products support 640x480, 1024x768 and 1280x1024 sensor resolutions with up to 60 fps frame rate. Beside analog video interface Parallel video, Camera Link video, Ethernet and SDI digital video interfaces are supported.

They can be customized to control peripheral devices such as Day TV cameras, analog/digital OLED displays, continuous zoom optics and laser range finders. By this way, they offer ultra-compact system solutions to their users.

### Technical Specifications

|                            |  |
|----------------------------|--|
| Array Type                 | Uncooled Microbolometer  |
| Detector Pitch             | 12 $\mu\text{m}$ /17 $\mu\text{m}$   |
| Spectral Band              | 8 to 12 $\mu\text{m}$  |
| Sensitivity                | < 30mK / < 50 mK   |
| Power Supply               | 3.0 V to 5.5 V / 6.0 V to 15 V   |
| Power Consumption          | 600 mW   |
| Frame Rate                 | 25/30/50/60 Hz   |
| Sensor Resolution          | 640x480 / 1024x768 / 1280x1024   |
| Time-to-image              | < 2 seconds  |
| Image Processing           | Adaptive temporal and spatial noise cancelation, digital detail enhancement, local contrast enhancement, image enhancement, color palette, electronic zoom |
| Digital Video Interface    | Parallel, Camera Link, Gigabit Ethernet, HD/3G SDI   |
| Analog Video Interface     | PAL, NTSC  |
| Working Temperature        | -40 °C, +71 °C   |
| Mechanical Dimensions (mm) | 42x42x39   |
| Applications               | Driver Vision Systems, Thermal Weapon Sights, Surveillance Cameras, UAVs, Remote Weapon Stations, IR Seekers   |



Specifications are subject to change without any notice. All tolerances are within  $\pm 10\%$ .

**Teknopark Ankara**   
1368. Cadde, No:61/33  
Yenimahalle / ANKARA / TÜRKİYE  
+90 312 870 10 40   
info@avies.com 

www.avies.com