

DigiTHERM - Thermal Camera System

| DIGITHERM SENSORS | | | | | |
|----------------------------|--|-----------------|---------------------|---------------------|----------------|
| | DigiTHERM-1920C | DigiTHERM-1280C | DigiTHERM-640C MWIR | DigiTHERM-640C LWIR | DigiTHERM-1024 |
| Mission Planning Software | IGIplan | | | | |
| Flight Guidance System | CCNS-5, Pilot and Operator Display | | | | |
| Precise Positioning System | AEROcontrol, export free MEMS & FOG IMUs available up to 600Hz | | | | |
| Sensor Management Unit | IGI SMU-2, 10" or 20" Operator Touch-Screen | | | | |

| TECHNICAL SENSOR FEATURES | | | | | |
|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------------------|
| Detector | Cooled FPA photon detector | Cooled FPA photon detector | Cooled FPA photon detector | Cooled FPA photon detector | Uncooled microbolometer FPA-detector |
| Geometric Resolution [IR pixel] | 1920 x 1536 | 1280 x 1024 | 640 x 512 | 640 x 512 | 1024 x 768 |
| Thermal Resolution @ 30°C [K] | 0.03 K | 0.025 K | 0.02 K | 0.025 K | 0.02 K |
| Thermal Measuring Range [C] | -40 .. 500° | -40 .. 1500° | -40 .. 1500° | -40 .. 1200° | -40 .. 2000° |
| Spectral Range [µm] | 3.6 .. 4.9 (MWIR) | 2.0 .. 5.5 (MWIR) | 2.0 .. 5.7 (MWIR) | 7.7 .. 10.2 (LWIR) | 7.5 .. 14 (LWIR) |
| Accuracy | ± 1°C or ± 1% | ± 1°C or ± 1% | ± 1°C or ± 1% | ± 1°C or ± 1% | ± 1°C or ± 1% |

| DIGITHERM LENSES FOV | | | | | |
|-------------------------|---------------|-------------|---------------|---------------|---------------|
| Super Wide-Angle 7.5 mm | | | | | 98.5° x 82.1° |
| Wide-Angle 15 mm | | | | | 60.3° x 47° |
| Wide-Angle 13 mm | | | | 40.5° x 32.5° | |
| Wide-Angle 12 mm | | | 43.6° x 35.5° | | |
| Standard 25 mm | 42° x 34.2° | 29° x 23° | 21.7° x 17.5° | 21.7° x 17.5° | |
| Standard 30 mm | | | | | 32.4° x 24.6° |
| Telephoto 50 mm | 21.2° x 17.5° | 15° x 12° | 11° x 8.8° | 11° x 8.8° | |
| Telephoto 60 mm | | | | | 16.5° x 12.4° |
| Telephoto 100 mm | 11° x 8.8° | 7.3° x 5.9° | 5.5° x 4.4° | 5.5° x 4.4° | |
| Telephoto 120 mm | | | | | 8.3° x 6.2° |
| Telephoto 200 mm | | 3.7° x 2.9° | 2.7° x 2.2° | 2.7° x 2.2° | |

Applications:

- Capture loss of heat in:
 - Populated areas
 - Industrial plants
 - Pipelines and power lines
- Rapid Powerline Monitoring
- Border protection
- Flow measurement of streams and rivers
- Forrest fire warning system
- Monitoring volcanos
- Animal tracking
- Search and rescue operations
- Support of all LiDAR applications

