

300D 2000B



*Selected #1 in image quality
in recent independent surveys.*

- Sealed package, long wavelength infrared camera core
- Utilizes industry-leading Barium Strontium Titanate (BST) detector technology (320 x 240 pixel array)
- Fully validated and fielded in military, fire, security, industrial and automotive applications

| 300D/2000B FEATURES | 300D/2000B BENEFITS |
|--------------------------------------|---|
| 'GOLD-STANDARD' IMAGE QUALITY | Absolutely the lowest spatial noise under the most challenging nighttime conditions, guaranteeing a clear image |
| IMMUNITY TO SOLAR RADIATION | BST is the only LWIR uncooled camera technology to be totally immune to direct solar exposure in any geographic location and for any length of time (no expensive filters required) |
| PLUG AND PLAY | Easily integrates with off-the-shelf image processing software for 24/7 operations, and continuously updated image is never interrupted by a shutter sequence |
| WORLDWIDE VIDEO COMPATIBILITY | Provides standard NTSC or PAL video output |
| INTEGRATION SUPPORT | Leading-edge technical support |

| ADDITIONAL 2000B FEATURES | ADDITIONAL 2000B BENEFITS |
|---|---|
| REAL-TIME SOFTWARE CONTROL | Using the 2000B kit and Control IR Manager software utility, camera NUC & pixel substitution can be updated on-site providing real-time updates and control |
| BUILT-IN CONFIGURABLE IMAGE PROCESSING | Enhance resolution and sensitivity via the RS-232 computer control interface |



300D



2000B

300D/2000B TECHNICAL SPECIFICATIONS:

| FEATURES | | THERMAL-EYE™ 300D | | | | THERMAL-EYE™ 2000B | | | |
|---|--------------------------------|---|------------------------|------------------------|------------------------|---|----------------------|-----------------|--------------|
| Focal Plane Array | Material & Structure | Uncooled Ferroelectric (320 x 240 pixel array) | | | | | | | |
| | Spectral Response | 7-14 μm (filter bandwidth) | | | | | | | |
| | Thermal Sensitivity | ≤100 mK | | | | | | | |
| Thermal Imaging System Performance | Start-up Time | < 30 sec (typical) < 90 sec (max) | | | | | | | |
| | Contrast / Brightness | Automatic or Manual (Note: Manual controlled gain, level and polarity requires 4 and 8 wire configuration) | | | | Automatic, manual or RS-232 controlled gain, level and polarity | | | |
| Optics (All six lenses available for both cameras) | Lens Options | 18mm | 25mm | 50mm | 75mm | 100mm | 150mm | | |
| | Range to Detect Human Activity | Up to 700ft (213m) | Up to 1000ft (305m) | Up to 1900ft (579m) | Up to 3000ft (915m) | Up to 3700ft (1128m) | Up to 5900ft (1799m) | | |
| | Minimum Focus Distance | ~10 ft (3m) | ~18in (.5m) | ~18in (.5m) | ~20ft (6m) | ~15ft (5m) | ~25ft (8m) | | |
| | Focus Method | Fixed Focus with Iris | Manual Focus with Iris | Manual Focus with Iris | Manual Focus with Iris | Electric motor focus | Electric motor focus | | |
| | Field of View | 45° x 35° | 36° x 27° | 18° x 13.5° | 12° x 9° | 9° x 6.6° | 6° x 4.4° | | |
| Video | Output Format | NTSC / PAL Compatible (Factory Setting) and Digital Output | | | | | | | |
| | Electronic Digital Zoom | 1X | | | | 1X, 2X / RS-232 Controlled | | | |
| Power | Input Voltage | 9 to 28 VDC | | | | | | | |
| | Input Power | <7A Peak (Start-up @ ambient for 20us) <1A (Steady State) | | | | | | | |
| Physical Characteristics | Size with 18mm lens | 2.9" L x 4" W x 4.9" H (74mm L x 102mm W x 125mm H) | | | | 3.7" L x 4" W x 4.9" H (94mm L x 102mm W x 125mm H) | | | |
| | Weight with 18mm lens | 1.5 lbs (.68 kg) | | | | 1.6 lbs (.73 kg) | | | |
| Environmental Characteristics | Operating Temperature | -22°F to 150.8°F (-30°C to 66°C) -4°F to 150.8°F for motorized focus only (-20°C to 66°C) | | | | | | | |
| | Storage Temperature | -40°F to 176°F (-40°C to 80°C) | | | | | | | |
| | | THERMAL-EYE™ 300D | | | | THERMAL-EYE™ 2000B | | | |
| | | NTSC 4 wire | NTSC 4 & 8 wire | PAL 4 wire | PAL 4 & 8 wire | NTSC Camera Only | NTSC Kit* | PAL Camera Only | PAL Kit* |
| Ordering Information | No Lens | 3261544-0009 | 3261544-0003 | 3261548-0009 | 3261548-0003 | 3261501-0018 | 3261516-0018 | 3261546-0015 | 3261547-0015 |
| | No Lens w/ Focus connector | N/A | N/A | N/A | N/A | 3261501-0025 | 3261516-0025 | 3261546-0022 | 3261547-0022 |
| | 18mm | 3261544-0001 | 3261544-0002 | 3261548-0001 | 3261548-0002 | 3261501-0019 | 3261516-0019 | 3261546-0016 | 3261547-0016 |
| | 25mm | 3261544-0004 | 3261544-0005 | 3261548-0004 | 3261548-0005 | 3261501-0020 | 3261516-0020 | 3261546-0017 | 3261547-0017 |
| | 50mm | 3261544-0012 | 3261544-0011 | 3261548-0012 | 3261548-0011 | 3261501-0021 | 3261516-0021 | 321546-0018 | 3261547-0018 |
| | 75mm | N/A | 3261544-0006 | N/A | 3261548-0006 | 3261501-0022 | 3261516-0022 | 3261546-0019 | 3261547-0019 |
| | 100mm | N/A | 3261544-0016 | N/A | 3261548-0016 | 3261501-0023 | 3261516-0023 | 3261546-0020 | 3261547-0020 |
| | 150mm | N/A | 3261544-0017 | N/A | 3261548-0017 | 3261501-0024 | 3261516-0024 | 3261546-0021 | 3261547-0021 |
| Optional Accessories | Mounting Bracket | 3261521-0001 | | | | | | | |
| | Tripod Mounting Fixture | 3231983-0001 | | | | | | | |
| | Analog Cable Control | N/A for 300D | | | | 3261524-0001 | | | |
| | Computer Cable Control | N/A for 300D | | | | 3223205-0001 | | | |
| | Digital Control Cable | N/A for 300D | | | | 3261520-0001 | | | |
| | Control IR Manager Software | N/A for 300D | | | | 3261541-0001 | | | |
| All specifications are subject to change without notice | | | | | | Thermal-Eye 300D/2000B Rev A July 05 | | | |

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