

EXISCAN™



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EMERSON

THERMAL IMAGERS

Innovation by **FOTRIC**

A.I. Onboard BUILT-IN A.I. INSPECTION ASSISTANT

NFPA 70B, Standard for Electrical Equipment Maintenance, requires equipment owners to perform at-least-annual infrared inspections of electrical equipment. Additionally, many types of equipment are now required to receive a visual inspection and/or partial discharge testing every three years.

For many facilities, these mandated inspections represent an increase in frequency and scope of maintenance activities compared to their historic practice; This is a time when skilled tradesmen have become more difficult to find, and while many facilities are experiencing unprecedented labor shortages.

Exiscan™ imagers by FOTRIC® are designed to make the inspection process far more efficient — saving time, while putting the power of desktop functionality into the camera. The A.I. assistant (NaviPdM®) leverages unmatched on-camera processing power to reduce inspection time, automate diagnostics, eliminate redundancies and generate in-field reports.

FOTRIC's NaviPdM®

- Asset component A.I. tracking
- Temperature trending
- Automated diagnostics
- Automated camera set-up
- Multiple inspection routes
- QR code scanner for asset identification and camera set-up
- On-device report generation

Built on National Standards, Trusted by Experts

Use international standards or your site standards for asset-specific on-device alarms.



NaviPdM on-device ROI-based alarms



Example of on-device Trending

Specifications



| Model | XA-640 | XA-384 | XA-320 | XF-640 | XF-384 | XT-384 |
|-----------------------------------|--|---|----------------------------------|--|--|--------------------------------------|
| Thermal Imaging Parameters | | | | | | |
| Infrared Resolution | 640 x 480 | 384 x 288 | 320 x 240 | 640 x 480 | 384 x 288 | 382 x 288 |
| Super Resolution | 1280 x 960 | 768 x 576 | 640 x 480 | 1280 x 960 | 768 x 576 | 764 x 576 |
| Thermal Sensitivity(NETD) | 30mk(0.054°F)@86°F | | | 30mk(0.054°F)@86°F | 40mk(0.072 °F)@86 °F | 40mk(0.072 °F)@86 °F |
| Image Frame Rate | 30Hz | | | | | |
| Standard Lens | | | | | | |
| Field of View (FOV) | 25°x 19° | | | | | 49° x 36.8° |
| Spatial Resolution (IFOV) | 0.68 mrad | 1.14 mrad | 1.36 mrad | 0.68 mrad | 1.14 mrad | 2.27 mrad |
| Minimum Imaging Distance | 0.82ft (0.25m) | 0.33ft (0.1m) | 0.33ft (0.1m) | 0.82ft (0.25m) | 0.33ft (0.1m) | 1.31ft (0.4m) |
| Focus Mode | TurboFocus® system for continuous, laser-assisted, thermal contrast AF, touch AF; Manual focus | | | | | Focus free |
| Unique Features | | | | | | |
| NaviPdM® | A.I. object tracking, temperature trending, automated diagnosis, multiple route on-device, QR code scanner for asset identification and camera set-up, on-device report generation | | | | | N/A |
| IR Window Quick Set | Quick access to pre-loaded IR window offsets | | | | | |
| IRExplorer™ | Cross-platform remote control and data transfer | | | | | |
| T-DEF® | Thermal and visible light image blend, transparency 0% ~100% | | | | | |
| T-TWB® | Temperature visual representation normalization (Histogram-based equalization display) | | | | | |
| IREdge | Contour detail enhancement | | | | | |
| Temp Analysis | | | | | | |
| Temperature Range | -4°F to 248°F, 32°F to 1292°F, 572°F to 3632°F * | -4°F to 248°F, 32°F to 1202°F | -4°F to 248°F, 32°F to 1202°F | -4 °F to 248 °F ; 32 °F to 1202 °F ; 572 °F to 2822 °F | -4 °F to 248 °F ; 32 °F to 1202 °F ; 572 °F to 2822 °F | -4 °F to 248 °F ; 32 °F to 662 °F |
| Accuracy | ± 1.8°F(1°C) or ±1%, whichever is greater, at temperature range 32°F(0°C)-212°F(100°C); ± 3.6°F(2°C) or ± 2% for other temperature range (ambient temp at 77°F(25°C) | ± 3.6°F(2°C) or ± 2%, whichever is greater (ambient temp at 77°F(25°C) | | | | |
| Delta-T | 1-to-1; 1-to-many; many-to-reference | | | | | |
| ROI Alarms | Custom (above or below) alarms per ROI; Delta-T alarms on NaviPdM | | | | | |
| PC Software | NaviPdM®, AnalyzIR® (Free unlimited licenses) | | | | | |
| Lenses | | | | | | |
| Optional Lenses | 25°&12° Dual-view 25°&7° Dual-view 7° Ultra Telephoto 12° Telephoto 25° Standard 46° Wide Angle | 15° Telephoto 25° Standard 46° Wide Angle | | 12° Telephoto 25° Standard 44° Wide Angle | | N/A |


*Not applicable to Dual-view lens

Specifications



| | |
|--------------------------------------|--|
| Model | XA-640H |
| Thermal Imaging Parameters | |
| Infrared Resolution | 640*480 |
| Super Resolution | 1280*960 |
| Focus Mode | TurboFocus® system (thermal contrast AF, laser-assisted AF, continuous AF, touch AF); Manual |
| Acoustic Imaging Parameters | |
| Microphone Channels | 162 MEMS digital microphone |
| Acoustic Image FOV | 66°*52° |
| Acoustic Sampling Rate | 200kHz |
| Working Distance | 0.3~100m |
| Acoutherm Features | |
| Mix Mode | Display thermal imaging and acoustic signals on the same interface |
| Unique Features | |
| NaviPdM® | A.I. object tracking, temperature trending, automated diagnosis, multiple route on-device, QR code scanner for asset identification and camera set-up, on-device report generation |
| IR Window Quick Set | Quick access to pre-loaded IR window offsets |
| IRExplorer™ | Cross-platform remote control and data transfer |
| T-DEF® | Thermal and visible light image blend, transparency 0% ~100% |
| T-TWB® | Temperature visual representation normalization (Histogram-based equalization display) |
| IREdge | Contour detail enhancement |
| Acoustic Measurement Analysis | |
| Frequency Range | 2~100kHz |
| Frequency Range Selection | Support preset frequency range for different scenarios for later selection; Support manual adjustment for frequency range. |
| Detection Mode | LQ Mode: Displays the leakage level; PD Mode: Displays a PRPD diagram, adapted to different AC frequencies (50/60Hz). |
| Acoustic Image Focus | Masks the surrounding area and focuses only on a selected part of the acoustic image. |
| Partial Discharge Diagnostics | Automatic diagnosis of discharge types such as surface, floating and tip (corona) discharges. |
| Acoustic Imaging Display | |
| Image Mode | Single, Multi, Hologram |
| T-FFTD® | Capture instantaneous sound signals and make it stay longer in real-time audio and video images. |
| Digital Zoom | 1~10x, continuous |
| Capture Features | |
| Digital Camera | Thermal: 5 megapixel; Acoustic: 13 megapixel |
| Storage Card | SD card of 256GB memory, supports expansion to 2TB |

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