



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

Are You Getting the FULL Picture?

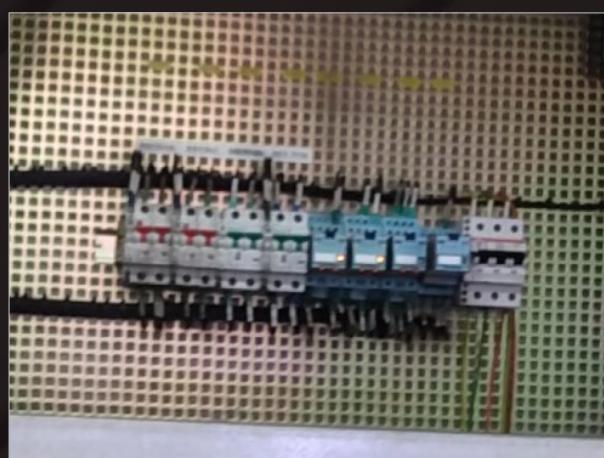
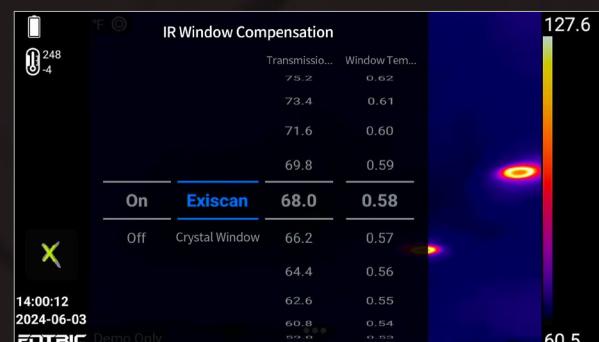
Exiscan™ has teamed up with FOTRIC® to provide inspection tools to Reliability Engineers that will make routes and analysis more efficient while improving accuracy and precision. By increasing on-device processing power and memory, and by leveraging the power of A.I., FOTRIC® has revolutionized IR Imagers making traditional post-processing "chair-time" minimal or even unnecessary.

By combining IR with Airborne Ultrasound imaging, technicians are now able to document three different inspections with one instrument in far less time than was previously possible.

Get the FULL PICTURE of your equipment health and safety with fewer man-hours, and comply with testing intervals required by the standards, with Exiscan™ and FOTRIC®.



Hybrid Cameras:
• Infrared
• Visual
• Ultrasound



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 ; 572 °F to 2822 °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

Notes

EXISCAN™

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