

Teledyne FLIR
Public Safety Solutions

THERMAL MONOCULARS FOR PUBLIC SAFETY

PRODUCT CATALOG

 **TELEDYNE**





PROBLEMS SEEN ARE PROBLEMS SOLVED

The human eye only tells part of the story. When danger lies in the darkness, through the haze, or under the brush, Teledyne FLIR outfits military and law enforcement professionals with tools to counter unseen threats. Years of battle-tested innovation help FLIR technologies combat the unknown, maximizing confidence and readiness of the modern warfighter. From advanced vehicle-mounted targeting systems to unmanned personal reconnaissance systems, each branch of the military relies on FLIR technologies to heighten situational awareness and save lives on the battlefield.

INNOVATION LEADER

With millions invested in research and development, Teledyne FLIR is committed, Teledyne FLIR is committed to driving innovation of thermal imaging and sensing technologies. Whether increasing top-end performance of existing systems or improving the accessibility of thermal solutions, Teledyne FLIR's continued investment in technology helps face some of the world's most pressing challenges.

GLOBAL REACH

Teledyne FLIR develops and distributes advanced sensing systems to improve the safety and well-being of people around the world. With product distribution spanning 173 different countries, Teledyne FLIR aims to expand the positive global impact of thermal imaging technology.



THERMAL IMAGING MONOCULARS



Thermal imaging handheld optics generate images based on heat energy—or infrared radiation—rather than visible light. Invisible to the naked eye, infrared radiation is emitted by all humans, animals, and objects, allowing thermal sensors to operate in complete darkness, through glaring light, and in the presence of smoke, fog, or sparse vegetation. Handheld monoculars bring on-demand thermal surveillance to law enforcement officers and outdoor enthusiasts. Compact, man-portable thermal imagers quickly detect objects of interest and boost situational awareness while on foot or from a vehicle, allowing users to scan fields, forests, and urban environments without revealing their position.



THERMAL IMAGING MONOCULAR
FLIR BREACH®

FLIR BREACH®

Built for the rigors of law enforcement, the FLIR Breach® PTQ136 spots the heat of suspects and objects in total darkness. Featuring the latest FLIR Boson core and a compact design, the FLIR Breach offers unmatched tactical awareness. Weighing only 7.4 ounces (210 grams), the FLIR Breach can be concealed in a pocket or mounted to a helmet with its mini-rail feature, while adding minimal weight to officers' heavy gear. Additional features include onboard recording and seven palettes for fast detection of suspects or evidence, day or night.

Detector	320 × 256 VOx
Refresh Rate	60 Hz
Focal Length	9.1 mm
Digital Zoom	2x, 4x
Detection Range	360 m





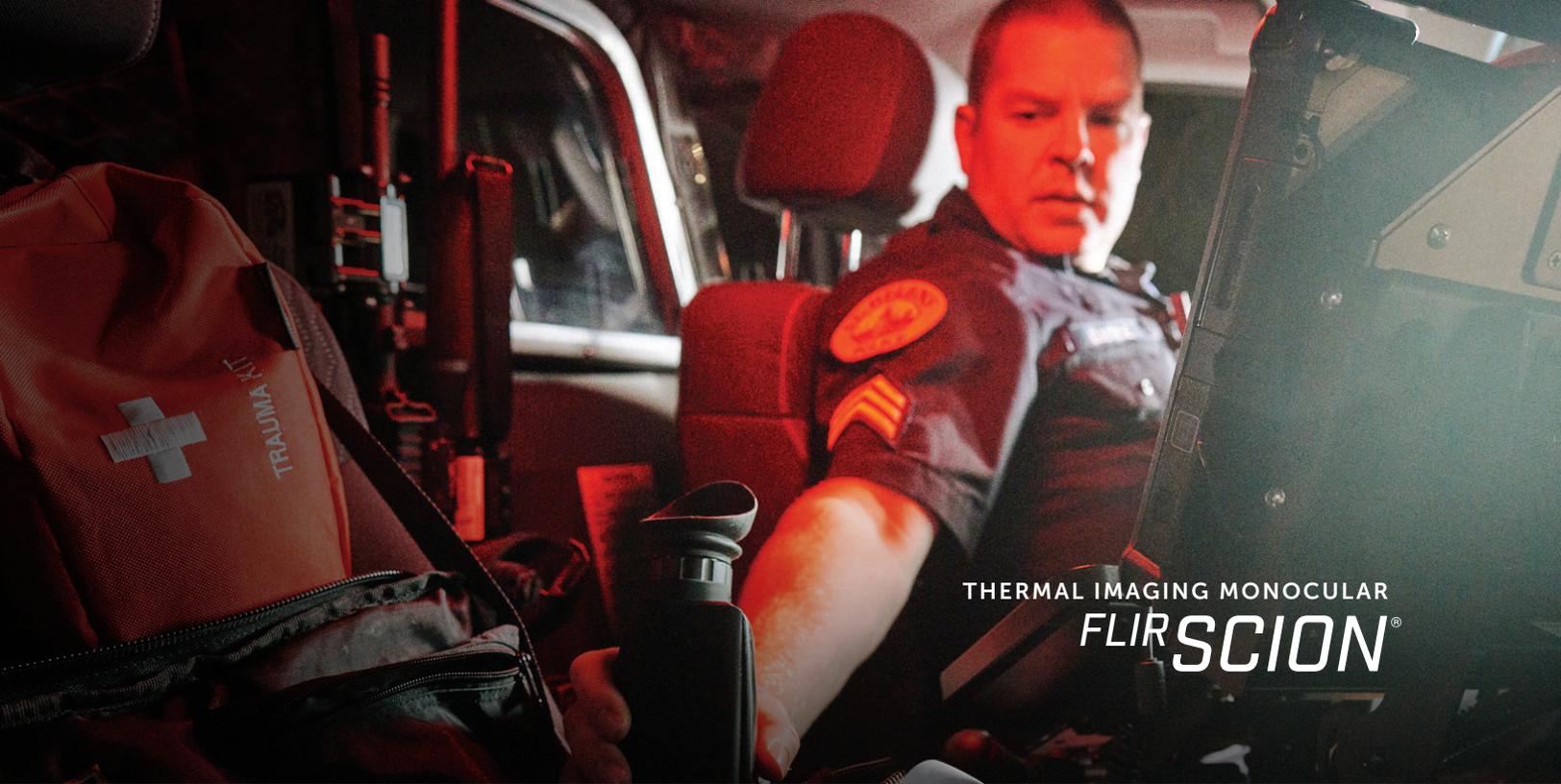
THERMAL IMAGING MONOCULAR
FLIR LS-X / LS-XR™

FLIR LS-X / LS-XR™

The FLIR LS-X and LS-XR handheld thermal monoculars are designed for the men and women who protect and serve. This powerful, easy-to-use imager gives officers the tactical advantage when pursuing suspects, looking for evidence, or conducting search and rescue. The LS-X and LS-XR feature high resolution displays, extended zooming capabilities, and video output. Whatever you need to see, find it with the FLIR LS-X and LS-XR.

Detector	336 × 256 640 × 512 VOx
Refresh Rate	7.5 Hz, 30 Hz, 60 Hz
Focal Length	19 mm, 35 mm
Weather Rating	IP67
Detection Range	550 m, 1140 m





THERMAL IMAGING MONOCULAR
FLIR SCION®

FLIR SCION® PTM

Built to equip law enforcement professionals with superior thermal surveillance, the FLIR Scion® PTM packs high-performance thermal imaging compatibility into a rugged, IP67-rated handheld monocular. Capable of geotagged video recording and live video transmission, the Scion PTM can instantly stream encrypted thermal footage of any pursuit, evidence recovery, or search and rescue effort to the command center via wireless network. A smooth 60 Hz refresh rate and picture-in-picture zoom capture minute details from a distance and maintain peripheral awareness for constant thermal supervision of suspects, team members, and standbys.

Detector	320 × 256 640 × 512 VOx
Refresh Rate	60 Hz
Focal Length	13.8 mm, 25 mm, 36 mm
Weather Rating	IP67
Detection Range	550 m, 1000 m, 1420 m



FLIR SCION® OTM

The FLIR Scion® OTM leverages high-performance thermal imaging and a refined user interface to quickly detect objects of interest and provide superior awareness in low visibility conditions. Built around FLIR's powerful Boson core, the Scion OTM produces smooth thermal imaging up to 60 Hz and captures geotagged video and still images for playback long after the day is done. A rugged, IP67-rated housing and intuitive controls allow single-hand operation in harsh weather conditions, maintaining reliable thermal imaging in the most demanding outdoor environments.

Detector	640 × 512 VOx
Refresh Rate	9 Hz or 60 Hz (model dependent)
Focal Length	13.8 mm, 18 mm, 25 mm, 36 mm*
Weather Rating	IP67
Detection Range	550 m, 710 m, 1000 m, 1420 m

*60 Hz model only

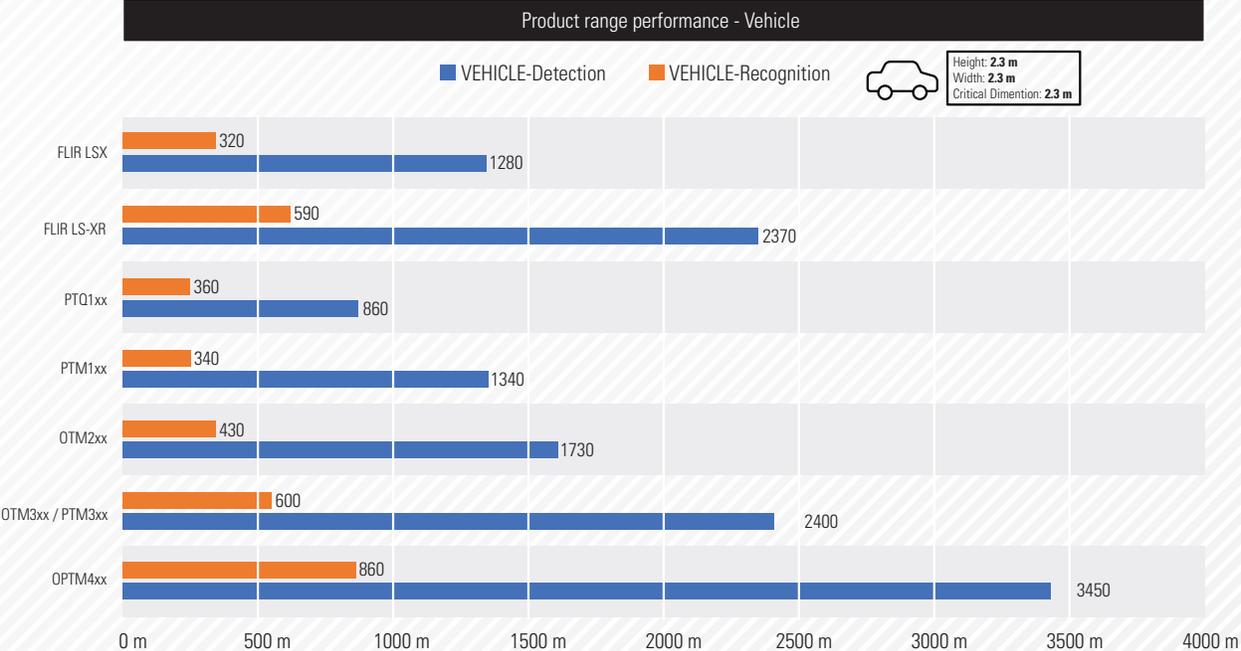
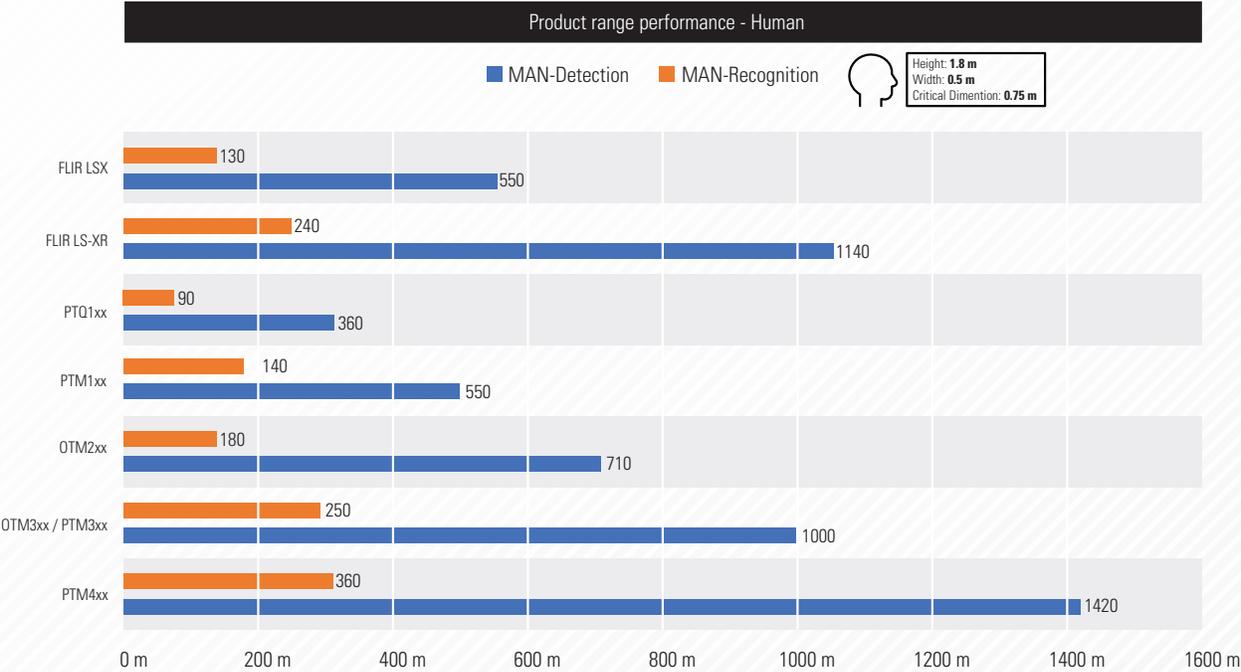


THERMAL MONOCULAR SPECIFICATIONS

SPECS	FLIR LSX / FLIR LS-XR				BREACH	
PRODUCTS	III 320	LS-X	LS-XR		PTQ 136	
DETECTOR	336 × 256 17 μm microbolometer	336 × 256 17 μm microbolometer	640 × 512 17 μm microbolometer		320 × 256 12 μm microbolometer	
LENS	19 mm Fixed Focus	19 mm Fixed Focus	35 mm Fixed Focus		9.1 mm; F/1.04	
FIELD OF VIEW	17° × 13°	17° × 13°	18° × 14°		24° × 19°	
DETECTION RANGE*	550 m	550 m	1140 m		360 m	
OPTICAL MAGNIFICATION	1.1x	1.1x	1.1x		1x	
DIGITAL ZOOM	2x	2x, 4x	2x, 4x	2x, 4x, 8x	2x, 4x	
REFRESH RATE	60 Hz	7.5 or 60 Hz	<9 Hz	30 Hz	7.5 or 30 Hz	60 Hz
VIDEO CAPABLE	Composite Video Out	Video Output	Composite Video Out	Video Output	Digital Video	
POWER	Internal Li-Ion Cell, > 5 hrs	Internal Li-Ion Cell, > 5 hrs	Internal Li-Ion Cell, > 5 hrs		1 CR123A 3V Lithium batteries, up to 90 minutes	
DIMENSIONS	170 × 58 × 62 mm (6.7 × 2.3 × 2.4 in)	170 × 58 × 62 mm (6.7 × 2.3 × 2.4 in)	170 × 58 × 62 mm (6.7 × 2.3 × 2.4 in)		96 × 48 × 68 mm (3.8 × 1.9 × 2.7 in)	
OVERALL DIMENSIONS	N/A	N/A	N/A		139 × 54 × 72 mm (5.5 × 2.1 × 2.8 in)	
WEIGHT	0.34 kg (0.75 lbs)	0.34 kg (0.75 lbs)	0.34 kg (0.75 lbs)		0.21 kg (0.46 lbs)	

SPECS	SCION				
PRODUCTS	PTM 166	OTM 260 / 266	OTM 366 / PTM 366	PTM 336	PTM 466
DETECTOR	320 × 256 VOx 12 μm microbolometer	640 × 512 VOx 12 μm microbolometer	640 × 512 VOx 12 μm microbolometer	320 × 256 VOx 12 μm microbolometer	640 × 480 VOx 12 μm microbolometer
LENS	14 mm	18 mm	25 mm		36 mm
FIELD OF VIEW	31° × 24°	24° × 18°	18° × 13°	9° × 6.5°	12° × 9°
DETECTION RANGE	550 m	710 m	1000 m		1420 m
OPTICAL MAGNIFICATION	0.7x	1x	1.3x	2.6x	2.0x
DIGITAL ZOOM	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x	1x, 2x, 4x, 8x
REFRESH RATE	60 Hz	9 Hz, 60 Hz	60 Hz		60 Hz
VIDEO CAPABLE	Yes				
POWER	6 x CR123a 3V Lithium battery, Optional rechargeable battery pack				
DIMENSIONS	227 × 77 × 61 mm (9.4 × 3.0 × 2.4 in)	239 × 77 × 61 mm (9.0 × 3.0 × 2.4 in)	227 × 77 × 61 mm (9.4 × 3.0 × 2.4 in)		278 × 77 × 73 mm (10.9 × 3.0 × 2.9 in)
WEIGHT	Unit only 0.45 kg (1.00 lbs) With battery 0.57 kg (1.25 lbs)		Unit only 0.57 kg (1.25 lbs) With battery 0.68 kg (1.50 lbs)		Unit only 0.68 kg (1.25 lbs) With battery 0.79 kg (1.75 lbs)

PRODUCT RANGE PERFORMANCE



WARRANTY

Teledyne FLIR aims to develop the most complete lineup of outdoor and personal vision systems in the world and is committed to assisting when product service becomes necessary.

All qualifying products properly registered within 60 days of the purchase date are eligible for extended warranty coverage under the FLIR Personal Vision Systems 2-3-10 Global Limited Warranty.

PRODUCTS	STANDARD LIMITED WARRANTY PERIOD	EXTENDED LIMITED WARRANTY PERIOD
QUALIFYING PRODUCTS	2 years on components and manufacturing defects, from original date of purchase.	3 years on components and manufacturing defects. 10 years on uncooled detector from original date of purchase.
ALL OTHER PRODUCTS	2 years on components and manufacturing defects, from original date of purchase.	none

For more information, please visit www.flir.com/support

ACCESSORIES

Swing Arm #32 and #172

Swing Arm #37 is an adapter to PVS-7/PVS-14 Headset/ Helmet that allows a night vision device attachment to standard MICH and PASGT helmet mount assembly

Swing Arm #172 mounts Mini Rail devices to standard Dovetail mounts, attaching compact optics such as FLIR Breach to helmet rigs.



Scion Rechargeable Battery Kit (GPX310)

The GPX310 lets you operate FLIR Scion thermal imaging monoculars for up to 10 hours. Its high-capacity 8.5 Ah battery pack features a smart fuel gauge that displays on-screen battery life when the Scion is on. Added electronics protection helps prevent battery-related safety incidents.

FLIR Scion Docking Station (GTX100)

The GTX100 mounts easily to surfaces. Its built-in locking feature latches FLIR Scion thermal imaging monoculars securely in place even during prolonged vibration and abrupt maneuvering. When powered, the station charges FLIR GPX310 rechargeable batteries while the Scion is docked.



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Specifications are subject to change without notice

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