

GO THERMAL
INNOVATIVE SENSING SOLUTIONS

FLIR

THERMAL MONOCULARS FOR PUBLIC SAFETY

PRODUCT CATALOG





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EXPORT INFORMATION

FLIR products are subject to the International Traffic in Arms Regulations (ITAR). The "Use" of any ITAR-controlled products requires that prior authorization be obtained from the U.S. Department of State to allow non-U.S. persons and affiliates to use these FLIR products.

*Equipment described herein may require U.S. Government authorization for export purposes. Diversion contrary to US law is prohibited.

According to the ITAR §120.10 and the EAR part 772, this document does not contain technical data / technology.



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, 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

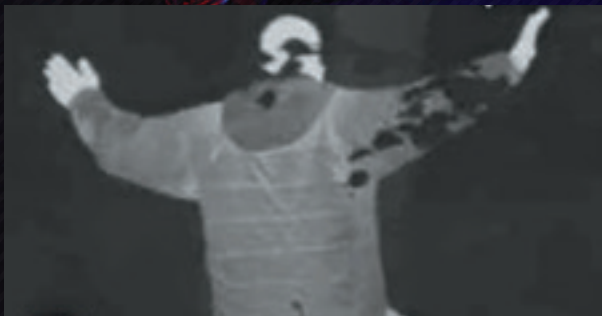
With 241 patents filed and over \$290 million invested in research and development over the past year, FLIR is committed to driving innovation of thermal imaging and sensing technologies. Whether increasing top-end performance of existing systems or improving the accessibility of thermal solutions, FLIR's continued investment in technology helps face some of the world's most pressing challenges.

GLOBAL REACH

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, 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 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 x 256 640 x 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



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.





THERMAL IMAGING MONOCULAR
FLIR SCION®

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	320 x 256 640 x 512 VOx
Refresh Rate	60 Hz
Focal Length	13.8 mm, 18 mm, 25 mm, 36 mm
Weather Rating	IP67
Detection Range	550 m, 710 m, 1000 m, 1420 m



FLIR SCION® OTM

The FLIR Scion® OTM captures clear thermal imaging and leverages a refined user interface to quickly detect objects of interest in complete darkness and through glaring light or haze. Built around FLIR's powerful Boson core, the Scion OTM produces 9 Hz thermal imaging and records 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	320 x 256 640 x 512 VOx
Refresh Rate	9 Hz
Focal Length	13.8 mm, 18 mm, 25 mm
Weather Rating	IP67
Detection Range	550 m, 710 m, 1000 m, 1420 m







THERMAL IMAGING MONOCULAR
FLIR SCOUT®

FLIR SCOUT® TK

The FLIR Scout TK is a pocket-sized thermal vision monocular for exploring the outdoors at night and in lowlight conditions. Scout TK reveals your surroundings and helps you see people, objects, and animals over 100 yards (90 m) away. Simple to use, with still image and video recording, Scout TK is the perfect companion, whether in the back country or your own backyard.

Detector	160 x 120 VOx
Refresh Rate	<9 Hz
Focal Length	13 mm
Onboard Recording	Video/Images
Detection Range	100 m



FLIR SCOUT® II

Offering clear thermal imaging in a compact monocular, Scout II quickly detects humans, animals, and objects in low visibility environments—day or night. Generating images based on heat, rather than visible light, thermal imaging gives users increased situational awareness in complete darkness and haze, providing reliable vision for surveillance and safe navigation. A rugged IP67 housing allows on-demand thermal imaging in the most trying conditions.

Detector	336 x 256 640 x 512 VOx
Refresh Rate	<9 Hz
Focal Length	19 mm, 35 mm
Weather Rating	IP67
Detection Range	550 m, 1140 m



FLIR SCOUT® III

Scout III captures sharp thermal imaging at a fast framerate for smooth, impeccable vision on running targets and from moving vehicles. Designed to increase situational awareness at any time of day, Scout III can detect humans, animals, and objects in complete darkness, haze, or through glaring light. A rugged IP67 rated housing stands up to harsh weather and drops, equipping law enforcement professionals, hunters, and outdoor enthusiasts with reliable thermal imaging in tough conditions.

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





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



Swing Arm #37 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.





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 x 256 640 x 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

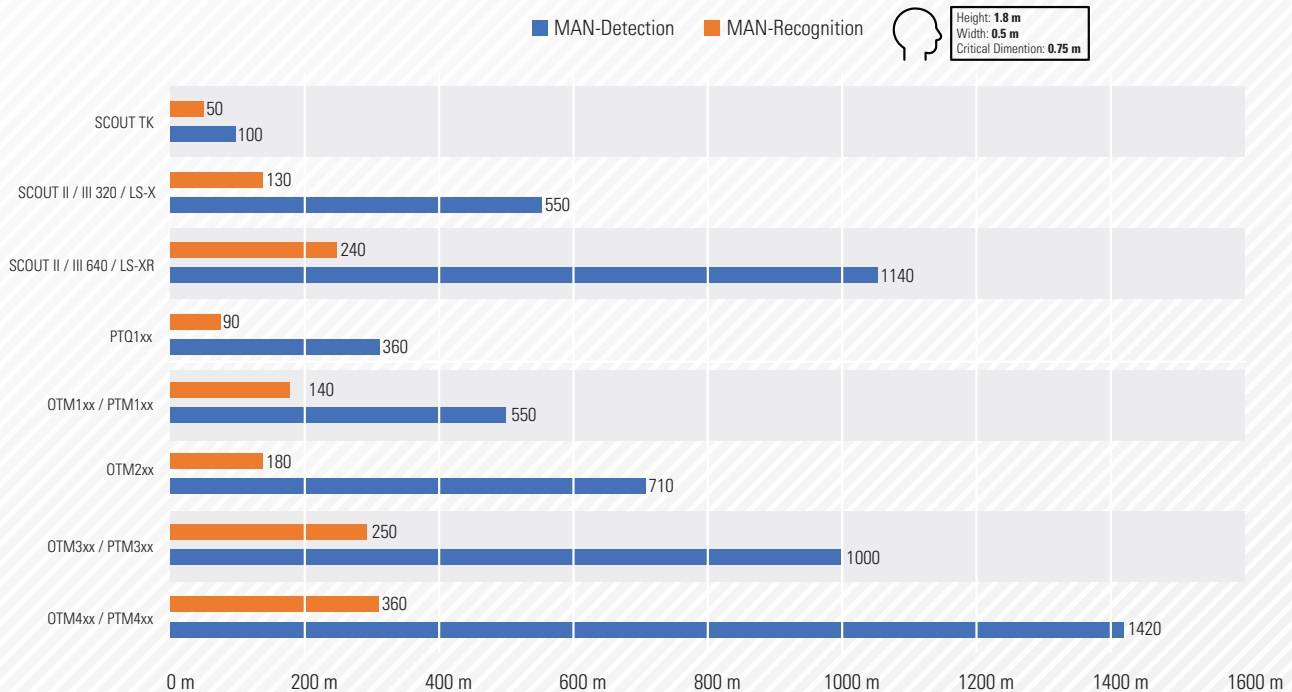


THERMAL MONOCULAR SPECIFICATIONS

SPECS	SCOUT TK		SCOUT					BREACH	
PRODUCTS	OTM 130, 136		II 320	III 320	LS-X	II 640	III 640	LS-XR	PTQ 136
DETECTOR	160 x 120 12µm Microbolometer		336 x 256 17µm microbolometer		640 x 512 17µm microbolometer			320 x 256 12µm microbolometer	
LENS	13 mm Fixed Focus		19 mm Fixed Focus		35 mm Fixed Focus			9.1 mm; F/1.04	
FIELD OF VIEW	18° x 14°		17° x 13°		18° x 14°			24° x 19°	
DETECTION RANGE*	100 m		550 m		1140 m			360 m	
OPTICAL MAGNIFICATION	1x		1.1x		1.1x			1x	
DIGITAL ZOOM	No		2x	2x	2x, 4x	2x, 4x	2x, 4x, 8x	2x, 4x	
REFRESH RATE	< 9 Hz		< 9 Hz	60 Hz	7.5 or 60 Hz	< 9 Hz	30 Hz	7.5 or 30 Hz	60 Hz
VIDEO CAPABLE	Video Capture		Composite Video Out		Video Output	Composite Video Out		Video Output	Digital Video
POWER	Internal Li-Ion Cell, > 5 hrs							1 CR123A 3V Lithium batteries, up to 90 minutes	
DIMENSIONS	152 x 51 x 51 mm (6 x 2 x 2 in)		170 x 58 x 62 mm (6.7 x 2.3 x 2.4 in)					96 x 48 x 68 mm (3.8 x 1.9 x 2.7 in)	
OVERALL DIMENSIONS	N/A							139 x 54 x 72 mm (5.5 x 2.1 x 2.8 in)	
WEIGHT	0.17 kg (0.375 lbs)		0.34 kg (0.75 lbs)					0.21 kg (0.46 lbs)	

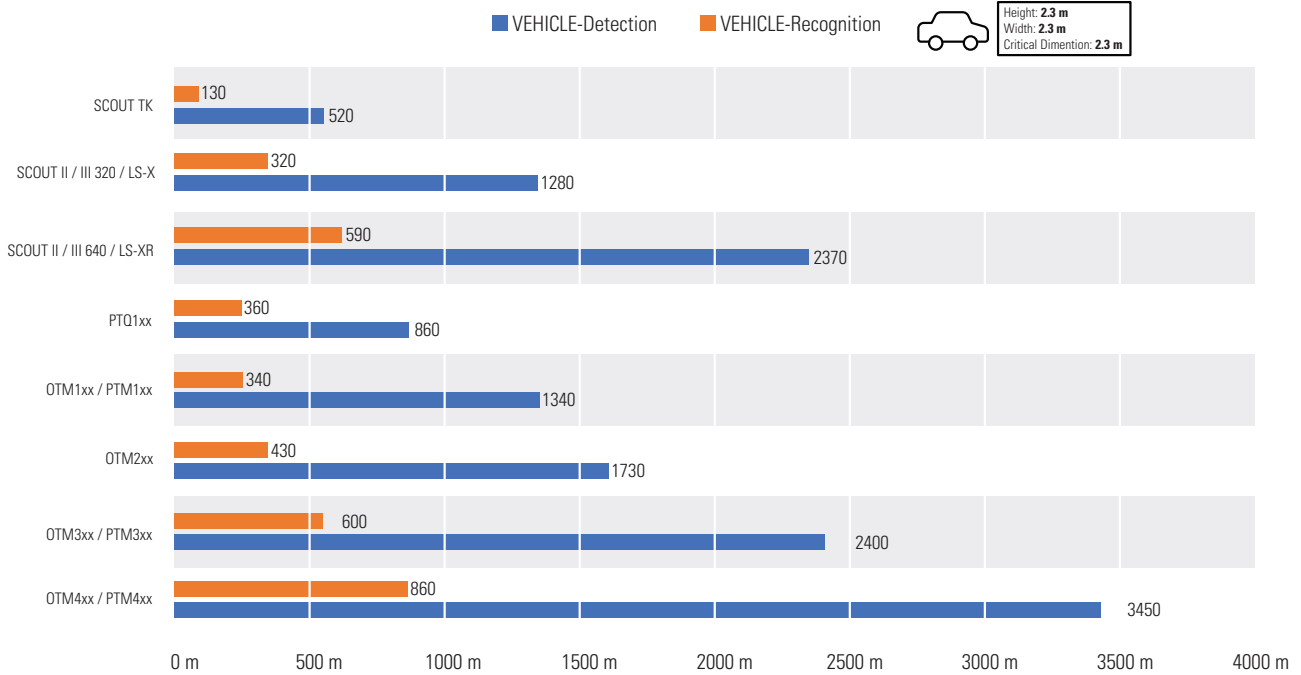
SPECS	SCION							
PRODUCTS	OTM 130 / 136	PTM 166	OTM 230 / 236	OTM 260 / 266	OTM 366 / PTM 366	PTM 336	OTM 430 / 436	PTM 466
DETECTOR	320 x 256 VOx 12µm Microbolometer		320 x 256 VOx 12µm Microbolometer	640 x 512 VOx 12µm Microbolometer	640 x 512 VOx 12µm Microbolometer	320 x 256 VOx 12µm Microbolometer	320 x 256 VOx 12µm Microbolometer	640 x 480 VOx 12µm Microbolometer
LENS	13.8 mm	14 mm	18 mm		25 mm		36 mm	
FIELD OF VIEW	16° x 12°	31° x 24°	12° x 9°	24° x 18°	18° x 13°	9° x 6.5°	6° x 4.5°	12° x 9°
DETECTION RANGE MAN	550 m		710 m		1000 m		1420 m	
OPTICAL MAGNIFICATION	1.5x	0.7x	1.9x	1x	1.3x	2.6x	3.8x	2.0x
DIGITAL ZOOM	1x, 2x, 4x	1x, 2x, 4x, 8x	1x, 2x, 4x	1x, 2x, 4x, 8x	1x, 2x, 4x, 8x	1x, 2x, 4x	1x, 2x, 4x	1x, 2x, 4x, 8x
REFRESH RATE	9 Hz, 60 Hz	60 Hz	9 Hz, 60 Hz		60 Hz		9 Hz, 60 Hz	60 Hz
VIDEO CAPABLE	Yes		Yes		Yes		Yes	
POWER	6 x CR123a 3V Lithium battery, Optional rechargeable battery pack							
DIMENSIONS	239 x 76.8 x 60.5 mm (9 x 3 x 2.4 in)	227 x 76.8 x 60.5 mm (9.4 x 3 x 2.4 in)	239 x 76.8 x 60.5 mm (9 x 3 x 2.4 in)		227 x 76.8 x 60.5 mm (9.4 x 3 x 2.4 in)		239 x 76.8 x 60.5 mm (9 x 3 x 2.4 in)	278 x 77 x 73mm (10.9 x 3.03 x 2.87)
WEIGHT	unit only 0.452 kg (1 lbs) with battery 0.565 kg (1.25 lbs)		unit only 0.567 kg (1.25 lbs) with battery 0.68 kg (1.5 lbs)		unit only 0.567 kg (1.25 lbs) with battery 0.68 kg (1.5 lbs)		unit only 0.68 kg (1.5 lbs) with battery 0.793 kg (1.75 lbs)	

Product range performance - Human

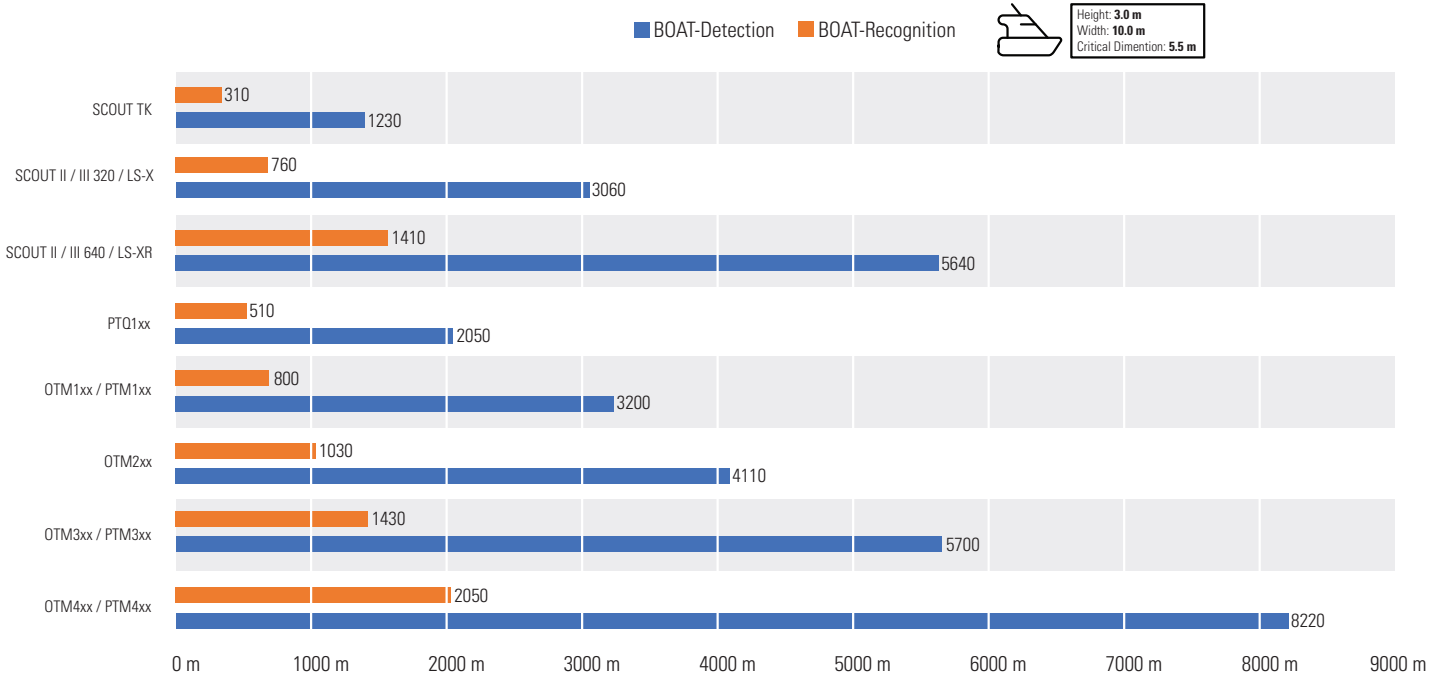


PRODUCT RANGE PERFORMANCE

Product range performance - Vehicle



Product range performance - Boat



WARRANTY

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 with FLIR 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

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Specifications are subject to change without notice

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