



TWS-3050

Thermal Imaging Weapon Sight



KEY FEATURES

- ▶ Objective Lens: 50mm f/1.0
- ▶ FPA: 384x288 or 640x480
- ▶ Refresh Rate: up to 60Hz
- ▶ Battery life: up to 14 hours
- ▶ Integrated Stadiametric Rangefinder
- ▶ Vehicle Detection Range: up to 4,350 m
- ▶ 7-Year Warranty
- ▶ Made in Canada. ITAR-free

OVERVIEW

TWS-3050 is a rugged thermal weapon sight designed for medium-range engagements. TWS-3050 features high-performance FPAs paired to a “fast” 50mm f/1.0 Germanium objective lens. TWS-3050 has the best in the industry battery life of up to 14 hours on a single battery pack containing only 4 AA batteries. The device is loaded with a stack of useful features and offers a variety of options for result-oriented Clients. The body of TWS-3050 is machined out of high-strength aircraft-grade aluminum which is then hard-anodized to make it perfectly suitable even for harsh environments.

DETECTION RANGES



Up to 6,090 m

Up to 1,800 m



Developed and manufactured by
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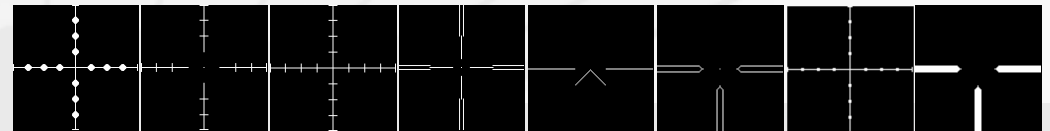
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TWS-3050 DISTINCTIVE FEATURES

- High-Resolution Uncooled FPAs: 384x288 or 640x480
- Fast Refresh Rate: up to 60Hz
- Quality and “Fast” Low-F-Number Germanium Lenses
- Quick Swap Battery Packs
- Low Power Consumption
- Completely Silent System Operation
- Rugged and Durable
- Unauthorized Location Protection: Lowest Heat Dissipation
- Video-out for External Display and Recording
- Up to 14 Hours Battery Life
- High-Resolution Micro-OLED Display 800x600
- Auto-Off Feature
- Weapon-Mountable: Fits any Standard 1913 Picatinny Rails
- 16 Selectable Reticle Patterns
- Integrated Stadiametric Rangefinder
- 24-hour Operation
- Vehicle Detection Range of up to 4,350 metres
- Manual and Automatic FPA Sensitivity Adjustment
- Manual Display Brightness Adjustment
- Black Hot / White Hot Polarity Control
- External Battery Pack Compatibility
- GSCI Proprietary Image-Enhancing Solutions (IES™)
- Dust- and Waterproof Protection
- Optional Remote Control
- Available for Worldwide Export
- 7-Year Manufacturer’s Warranty
- Made in Canada

TWS-3050 REAL-LIFE PERFORMANCE





TWS-3050

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Ergonomic Buttons with Tactile Feedback

GSCI Inline Keypad Layout guarantees convenient use and comfortable operation unlike hard-to-operate diamond-shape keypads.

640x480 or 384x288 High-Performance FPAs

800x600 MicroOLED Display

Smooth and Inaudible Focus Adjustment

Up to 14 Hours Battery Life

50mm f/1.0 "Fast" Germanium Lens

Fits MIL STD 1913 Picatinny Rail



Wired Remote Control Unit. Light and portable remote control with hard-anodized aluminum body.

The unique and priority option: the head-mounted display HMD-800. This is a portable and feather-light unit with an OLED micro-display that transmits real-time thermal video image from any GSCI thermal system. The HMD-800 enables using the thermal unit by 2 crew members simultaneously.



HMD-800



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TWS-3050 TECHNICAL DATA				
PARAMETER	PROFESSIONAL LINE		ELITE LINE	
	TWS-3050CG	TWS-3050CG-17	TWS-3050XL	TWS-3050XL-17
Objective Lens Focal Length	50mm			
Objective Lens F-number	f/1.0			
Field Of View, Degrees	16x12			
Magnification Optical	2X			
Magnification Digital	2X, 4X			
Maximum Total Magnification	8X			
Diopter Adjustment	-6 .. +4			
FPA Resolution	384x288 pixels	640x480 pixels	384x288 pixels	640x480 pixels
FPA Sensitivity	50mK	60mK	50mK	60mK
FPA Refresh Rate	50Hz	25Hz	60Hz	30Hz
Power Source	4pcs Any Standard AA Batteries: Alkaline, Rechargeable, Lithium, etc.			
Battery life, hours	6 / 8 / 14	5 / 7 / 12	6 / 8 / 14	5 / 7 / 12
DRI, Human (1.7x0.4m)*, m	1,000/500/375	1,800/830/570	1,000/500/375	1,800/830/570
DRI, Vehicle (2.3x2.3m)*, m	2,500/1,200/920	4,350/2,200/1,450	2,500/1,200/920	4,350/2,200/1,450
Dimensions, mm	210x90x65			
Mass, grams	700			
Warranty	7 Years, Limited			
Export	Available for Export Worldwide**			

* DRI = Detection/Recognition/Identification distances for a specific target

** Canadian Export Permit Required. GSCI provides full assistance in obtaining Export Permit



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PROFESSIONAL
/// **LINE** ///



ELITE
/// **LINE** ///





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Standard and Optional Accessories for TWS-3050: Delivery Set

		PROFESSIONAL LINE		ELITE LINE	
		TWS-3050CG	TWS-3050CG-17	TWS-3050XL	TWS-3050XL-17
1	AA Lithium Batteries	4 pcs.	4 pcs.	8 pcs.	8 pcs.
2	Quick-Swap Battery Packs	2 pcs.	2 pcs.	3 pcs.	3 pcs.
3	Demist Shield	●	●	●	●
4	Long Eye Relief Rubber Eyecup	●	●	●	●
5	Protective Flip-Up Lens Cover	●	●	●	●
6	Soft Carrying Pouch	●	●	●	●
7	Video Out Cable	●	●	●	●
8	Low Profile Weapon Mount	—	—	—	—
9	MAK Weapon Mount	●	●	●	●
10	SRF (Stadiametric Rangefinder)	●	●	●	●
11	8 Patterns Electronic Reticle	—	—	—	—
12	16 Patterns Electronic Reticle	●	●	●	●
13	Auto-OFF Feature	●	●	●	●
14	IPE (Intelligent Picture Enhancement)	●	●	●	●
15	Hard Carrying Case	○	○	●	●
16	SSF (Stow Safety Feature)	○	○	●	●
17	Remote Control	○	○	●	●
18	Recoil Absorbing Mount (RAM)	○	○	●	●
19	VO-USB (Video-Out to USB Adapter & Software)	○	○	○	○
20	HMD-800 (Head Mounted Display; OLED 800x600)	○	○	○	○
21	DVR (Portable Video Recorder)	○	○	○	○

“● ” = Included, “○ ” = Optional, “— ” = Not available in this configuration



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List and Visual Representation of Standard and Optional Accessories for TWS-3050

1	AA Lithium Batteries
2	Quick-Swap Battery Packs (accommodates 4 AA batteries)
3	Demist Shield (Protects eyepiece from fogginess)
4	Long Eye Relief Rubber Eyecup
5	Protective Flip-Up Lens Cover (Protects front lens when device is not in use)
6	Soft Carrying Pouch
7	Video Out Cable (Connects TWS-3050 to any Display with RCA video in)
8	Low Profile Weapon Mount
9	MAK Weapon Mount
10	SRF (Stadiametric Rangefinder) (Electronic Feature that measures distances to objects)
11	8 Patterns Electronic Reticle
12	16 Patterns Electronic Reticle
13	Auto-OFF Feature (Device is off after 30 minutes of inactivity. Can be enabled/disabled)
14	IPE (Intelligent Picture Enhancement)
15	Hard Carrying Case (Waterproof)
16	SSF (Stow Safety Feature)
17	Remote Control
18	Recoil Absorbing Mount (RAM) - absorbs up to 30% recoil energy
19	VO-USB (Video-Out to USB Adapter & Software: Connects TWS-3050 to a computer)
20	HMD-800 (Head Mounted Display; OLED 800x600)
21	DVR (Portable Video Recorder with SD Card Slot)

