



TWS-3100

Thermal Imaging Weapon Sight



KEY FEATURES

- ▶ Objective Lens: 100mm f/1.4 or f/1.1
- ▶ FPA: 384x288 or 640x480
- ▶ Refresh Rate: up to 60Hz
- ▶ Battery life: up to 14 hours
- ▶ Integrated Stadiametric Rangefinder
- ▶ Vehicle Detection Range: up to 7,500m
- ▶ 7-Year Warranty
- ▶ Made in Canada. ITAR-free

OVERVIEW

TWS-3100 is a series of high-performance thermal weapon sights for long-range engagements. It boasts “fast” 100mm objective lenses that are paired to high-sensitivity FPAs and together with the GSCI proprietary image enhancement solutions deliver staggering detection figures of over 7,500 metres. TWS-3100 is manufactured in Canada according to strict military standards. Its body is made out of hard-anodized, high-strength aircraft grade aluminum to ensure maximum durability. TWS-3100 undoubtedly dominates other high-performance weapon-mountable thermal imaging systems on the global arena.

DETECTION RANGES



Up to 9,900 m

Up to 3,200 m



Developed and manufactured by
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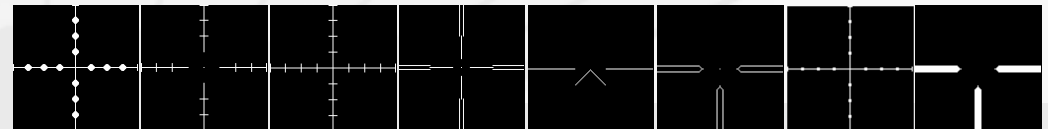
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TWS-3100 DISTINCTIVE FEATURES

- 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 7,500 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-3100 REAL-LIFE PERFORMANCE





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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

Fits MIL STD 1913 Picatinny Rail

100mm "Fast" Germanium Lens



HMD-800

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.



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TWS-3100 TECHNICAL DATA				
PARAMETER	PROFESSIONAL LINE		ELITE LINE	
	TWS-3100CG	TWS-3100CG-17	TWS-3100XL	TWS-3100XL-17
Objective Lens Focal Length	100mm			
Objective Lens F-number	f/1.4		f/1.1	
Field Of View, Degrees	9x6			
Magnification Optical	4X			
Magnification Digital	2X, 4X			
Maximum Total Magnification	16X			
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	2,170/775/430	2,500/1,000/700	2,440/1000/680	3,200/1,450/980
DRI, Vehicle (2.3x2.3m)*, m	4,500/2,200/1,200	6,000/2,700/1,490	5,800/3,350/2,000	7,500/4,575/2,475
Dimensions, mm	280x105x105		280x115x105	
Mass, grams	1300		1490	
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

DISCLAIMER. Technical description, view, weight, dimensions, some optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual view and values of the working model and are subject to change without prior notice by the sole discretion of the Manufacturer. The product described herein is fully MIL-SPEC Compliant. Contact us for further clarifications. Information contained in this message is proprietary of General Starlight Co., Inc. protected from disclosure, highly confidential, and may be privileged. This information is intended to be conveyed only to designated recipients of the message. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, unauthorized use, distribution or copying of this material is strictly prohibited and may be unlawful. Copyright © 1992-2016 General Starlight Co., Inc. Canada. All rights reserved.



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Standard and Optional Accessories for TWS-3100: Delivery Set

		ADVANCED LINE		PROFESSIONAL LINE		ELITE LINE	
		TWS-3100DX-384	TWS-3100DX-640	TWS-3100CG	TWS-3100CG-17	TWS-3100XL	TWS-3100XL-17
1	AA Lithium Batteries	4 pcs.	4 pcs.	4 pcs.	4 pcs.	8 pcs.	8 pcs.
2	Quick-Swap Battery Packs	2 pcs.	2 pcs.	2 pcs.	2 pcs.	3 pcs.	3 pcs.
3	Demist Shield	●	●	●	●	●	●
4	Long Eye Relief Rubber Eyecup	●	●	●	●	●	●
5	Soft Carrying Pouch	●	●	●	●	●	●
6	Video Out Cable	●	●	●	●	●	●
7	MAK Weapon Mount	●	●	●	●	●	●
8	SRF (Stadiametric Rangefinder)	—	—	●	●	●	●
9	8 Patterns Electronic Reticle	●	●	—	—	—	—
10	16 Patterns Electronic Reticle	—	—	●	●	●	●
11	Auto-OFF Feature	—	—	●	●	●	●
12	IPE (Intelligent Picture Enhancement)	—	—	●	●	●	●
13	Hard Carrying Case	○	○	○	○	●	●
14	SSF (Stow Safety Feature)	—	—	○	○	●	●
15	Remote Control	—	—	○	○	●	●
16	Recoil Absorbing Mount (RAM)	○	○	○	○	●	●
17	VO-USB (Video-Out to USB Adapter & Software)	○	○	○	○	○	○
18	HMD-800 (Head Mounted Display; OLED 800x600)	○	○	○	○	○	○
19	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-3100

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	Soft Carrying Pouch
6	Video Out Cable (Connects TWS-3100 to any Display with RCA video in)
7	MAK Weapon Mount
8	SRF (Stadiametric Rangefinder) (Electronic Feature that measures distances to objects)
9	8 Patterns Electronic Reticle
10	16 Patterns Electronic Reticle
11	Auto-OFF Feature (Device is off after 30 minutes of inactivity. Can be enabled/disabled)
12	IPE (Intelligent Picture Enhancement)
13	Hard Carrying Case (Waterproof)
14	SSF (Stow Safety Feature)
15	Remote Control
16	Recoil Absorbing Mount (RAM) - absorbs up to 30% recoil energy
17	VO-USB (Video-Out to USB Adapter & Software: Connects TWS-3100 to a computer)
18	HMD-800 (Head Mounted Display; OLED 800x600)
19	DVR (Portable Video Recorder with SD Card Slot)

