



CTS-220

Clip-On Thermal Imaging Weapon Sights



OVERVIEW

GSCI's Clip-On Thermal Weapon Sights CTS-220 are designed for close to medium-range engagements. Utilizing the quick release weapon mount, the CTS-220 easily attaches to and detaches from standard 1913 Picatinny rails in front of daytime scopes. This gives the operator the ability to deploy it on multiple weapon platforms without the need to dedicate a thermal scope.

CTS-220 sight have built-in digital collimator which allows the easy "pairing" with the host day scope.

KEY FEATURES

- ▶ Objective Lens: 25mm, f/1.0
- ▶ FPA: 384x288 or 640x480
- ▶ Refresh Rate: up to 60Hz
- ▶ Battery life: Over 7 hours
- ▶ Integrated Stadiametric Rangefinder
- ▶ Vehicle Detection Range: up to 2,292m
- ▶ 7-Year Warranty
- ▶ Made in Canada. ITAR-free

DETECTION RANGES



Up to 3,110 m



Up to 917 m



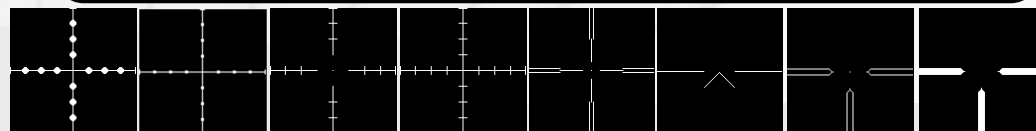
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CTS-220 DISTINCTIVE FEATURES

- High-Resolution Uncooled FPAs: 384x288 or 640x480
- Fast Refresh Rate: up to 60Hz
- Quality and “Fast” Low-F-Number Germanium Lens
- Quick Swap Battery Packs
- Low Power Consumption
- Completely Silent System Operation
- Rugged and Lightweight
- Operates on Any Type of Standard AA Batteries
- Unauthorized Location Protection: Lowest Heat Dissipation
- Video-out for External Display and Recording
- High-Resolution Micro-OLED Display 800x600
- Auto-Off Feature
- Integrated Stadiametric Rangefinder
- 24-hour Operation
- Vehicle Detection Range of up to 2,292 metres
- Manual and Automatic FPA Sensitivity Adjustment
- Manual Display Brightness Adjustment
- Black Hot / White Hot Polarity Control
- High-Precision Aluminum Hard-Anodized Body
- External Battery Pack Compatibility
- Fits any Standard 1913 Picatinny Rails
- GSCI Proprietary Image-Enhancing Solutions (IES™)
- Dust- and Waterproof Protection
- Optional Remote Control *
- Optional Recoil Absorbing Mount (RAM) **
- Available for Worldwide Export
- 7-Year Manufacturer's Warranty
- Made in Canada

CTS-220 REAL-LIFE PERFORMANCE



* Optional remote control will become available in September 2015

** If RAM is installed, daytime optics must be raised above the rail by approx. 20mm

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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**

**Detachable
Clip-On Ocular**

Can be replaced with an eyepiece to transform CTS-220 into a dedicated thermal weapon sight

**Smooth and
Inaudible Focus
Adjustment**

**Over 7 Hours
Battery Life**

**25mm "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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CTS-220 TECHNICAL DATA						
MODEL PARAMETER	ADVANCED LINE		PROFESSIONAL LINE		ELITE LINE	
	CTS-220DX-384	CTS-220DX-640	CTS-220CG	CTS-220CG-17	CTS-220XL	CTS-220XL-17
Objective Lens Focal Length	25mm					
Objective Lens F-number	f/1.0					
FPA Resolution	384x288 pixels	640x480 pixels	384x288 pixels	640x480 pixels	384x288 pixels	640x480 pixels
FPA Sensitivity	60mK	65mK	50mK	60mK	50mK	60mK
FPA Refresh Rate	50Hz	25Hz	50Hz	25Hz	60Hz	30Hz
Magnification Optical	1X					
Magnification Digital	2X, 4X					
Maximum Total Magnification	4X					
Diopter Adjustment	-6 .. +2					
Power Source	2pcs AA Batteries					
Accepted Battery Types	Lithium					
Battery life, hours	Over 5		Over 7			
DRI, Human (1.7x0.4m)	509/275/178	808/355/221	635/313/209	917/509/306	635/313/209	917/509/306
DRI, Vehicle (2.3x2.3m)	1,211/602/401	1,950/1,020/533	1,568/784/523	2,292/1,273/764	1,568/784/523	2,292/1,273/764
Dimensions, mm	160x50x45					
Mass, grams	470					
Warranty	7 Years, Limited					

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

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	CTS-220DX-384	CTS-220DX-640	CTS-220CG	CTS-220CG-17	CTS-220XL	CTS-220XL-17
KIT CONTENTS						
Objective Lens	25 mm, f/1.0	25 mm, f/1.0	25 mm, f/1.0	25 mm, f/1.0	25 mm, f/1.0	25 mm, f/1.0
FPA Format	384x288	640x480	384x288	640x480	384x288	640x480
FPA Sensitivity	60 mK	65 mK	50 mK	60 mK	50 mK	60 mK
FPA Refresh Rate	50 Hz	25 Hz	50 Hz	25 Hz	60 Hz	30 Hz
AA Lithium Batteries	2 pcs.	2 pcs.	2 pcs.	2 pcs.	4 pcs.	4 pcs.
Quick-Swap Battery Packs	2 pcs.	2 pcs.	2 pcs.	2 pcs.	3 pcs.	3 pcs.
Soft Carrying Pouch	●	●	●	●	●	●
Low Profile Weapon Mount	●	●	●	●	●	●
SRF (Stadiametric Rangefinder)	—	—	●	●	●	●
16 Patterns Electronic Reticle	—	—	●	●	●	●
Auto-OFF Feature	—	—	●	●	●	●
IPE (Intelligent Picture Enhancement)	—	—	●	●	●	●
Hard Carrying Case	○	○	○	○	●	●
SSF (Stow Safety Feature)	—	—	○	○	●	●
Remote Control	—	—	○	○	●	●
Recoil Absorbing Mount (RAM)	○	○	○	○	○	○
"●" = Included, "○" = Optional, "—" = Not available in this configuration						

Developed and manufactured by
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