



ADVANCED PHOTONICS

LIGHTWEIGHT THERMAL
GOGGLES

UNITEC-G



The UNITEC-G is the thermal imaging goggle system designed for all categories of customers. It has a full-size ergonomic and tactile keypad, hard-anodized aluminum body, and superb optics. Its unbeatable real-life performance is complemented by best-in-class battery life. Features include fully waterproof design, precisely machined body and outstanding build quality. The UNITEC-G is perfect for 24/7 observation and detection for any purpose (wildlife, perimeter security, outdoor activities).



KEY FEATURES

- ◆ Auto-NUC FPA: 384x288 and 640x480
- ◆ 50Hz Refresh Rate
- ◆ Human Detection Range: up to 830m
- ◆ Optional Built-In Video Recorder
- ◆ Up to 8 Hours Battery Life
- ◆ ITAR-Free System: Available for Export

MAIN APPLICATIONS

- ◆ Perimeter Security
- ◆ Law Enforcement
- ◆ Wildlife Observation
- ◆ Surveillance
- ◆ Border Patrol
- ◆ Reconnaissance



Designed, Developed, Manufactured by GENERAL STARLIGHT COMPANY INC.

120 WHITMORE ROAD, UNIT 20, WOODBRIDGE, ONTARIO, L4L6A5, CANADA

WWW.GSCI1.COM

GSCI@GSCI1.COM

+1.905.850.0990

DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



ADVANCED PHOTONICS

LIGHTWEIGHT THERMAL GOGGLES

UNITEC-G



	UNITEC-G38	UNITEC-G64
Optical Magnification	1.5X	1X
Objective Lens	25mm, f/1.0	
Field of View	14.9°x11.2°	24.5°x18.5°
Focusing Range	0.25m .. Infinity	
Eyerelief	20mm	
FPA Resolution and Pitch	384x288, 17µm	640x480, 17µm
FPA Type	Uncooled, a-Si, Shutterless, Silent, Auto-NUC (Uninterrupted Operation)	
FPA Sensitivity	<60mK	
FPA Refresh Rate	50Hz	
Digital Zoom	2X and 4X	
Display	Full Size: 0.6 Inch, Dual-AMOLED, Colour, 800x600	
Imaging Modes	1 Monochrome + 8 Colour	
High Dynamic Range	Yes	
Digital Detail Enhancement	Yes	
Digital Video Recorder	Optional: Built-In with microSD Card or External with SD Card	
Detection Human (1.7x0.5m)	Up to 830m	
Detection Vehicle (2.3x2.3m)	Up to 1130m	
Accepted Batteries	4pcs AA, any kind: Lithium, Rechargeable, Alkaline, etc.	
Battery Life	Up to 8 Hours	
Environmental Protection	IP66, IP67 or Better	
Dimensions and Weight	112x138x55mm , 455 grams	
Operating Temperature	-40°C .. +50°C	
Warranty	7 Years, Limited	
Export	Available Worldwide (Canadian Export Permit Required. GSCI provides assistance in obtaining the Permit)	

DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



ADVANCED PHOTONICS

LIGHTWEIGHT THERMAL
GOGGLES

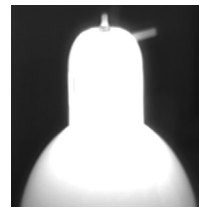
UNITEC-G



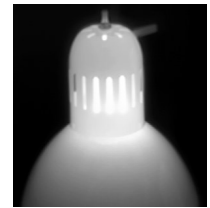
DISTINCTIVE FEATURES

- High-Resolution Uncooled FPAs: 384x288 or 640x480
- Fast Refresh Rate: 50Hz
- Quality and “Fast” Low-F-Number Germanium Lenses
- Ultra-Low Power Consumption
- Optional Built-In Video Recorder
- HDR and DDE Features for Image Enhancement
- Can be Mounted on Head Gears and Helmet Mounts
- Stadiametric Rangefinder (SRF)
- Stow Safety Feature (SSF)
- Completely Silent System Operation
- Interchangeable Optics
- Precision-Machined Rugged Aluminum Body
- Video-out for External Display and Recording
- High-Resolution Colour AMOLED Displays 800x600
- 24-hour Operation
- Manual and Automatic FPA Sensitivity Adjustment
- Manual Display Brightness Adjustment
- Black Hot / White Hot Polarity Control
- Universal Power Solution: AA, USB-powered, etc.
- Complete Dust- and Waterproof Protection
- Made in Canada. Available for Worldwide Export
- 7-Year Manufacturer’s Warranty

High Dynamic Range (HDR)



Off



On

HDR improves detection capabilities in challenging thermal scenes, such as hot objects on cold background, where details of the background are not distinguishable.

Digital Detail Enhancement (DDE)



Off



Medium Level



High Level

DDE is an advanced non-linear image processing algorithm that sets the desired level of image sharpness to help better distinguish details of an object/background.

DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



ADVANCED PHOTONICS

LIGHTWEIGHT THERMAL
GOGGLES

UNITEC-G



Two Colour 800x600
AMOLED Displays

Full-Size Ergonomic Keypad
with Tactile Feedback

640x480 and 384x288
High-Performance FPAs

Non-Uniformity Correction (NUC, calibration) of FPA is performed automatically, instantly and continuously to deliver crisp and highest image quality at all times. Thanks to the Automatic-NUC technology there are no "clicks", no interruptions in device's operation. User is not distracted to perform any FPA calibrations whatsoever.

Universal Port: Power,
Video, Remote



Up to 8 Hours Battery
Life

Hard-Anodized
Aluminum Enclosure

Fast Objective Lens with High-
Grade Germanium Glass



Based on Customer's preference, the UNITEC-G can be equipped with PVS (Bayonet) or Dovetail-type bracket

DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



ADVANCED PHOTONICS

LIGHTWEIGHT THERMAL
GOGGLES

UNITEC-G



STANDARD ACCESSORIES: WHAT'S IN THE BOX



UNITEC-G Goggles



Neck Strap



USB Power
Cable



Video-Out
Cable



Quick-Swap
Battery Holders



Soft Carrying
Pouch



Hard Waterproof
Case



User Manual and
Warranty Card

OPTIONAL ACCESSORIES



Standard Head Gear PHG-7 (non-flip-up. Compatible with PVS-style bracket only, comes with 3 brow pads, 1-way adjustment)



Advanced Flip-Up Helmet Mount HM-714XM-C (Complete kit with straps. Available in both PVS-style and Dove-Tail style configurations, 4-way adjustment)



Advanced Flip-Up Helmet Mount HM-714XM-SR ("Shroud-Ready" version compatible with ops-core style helmets. Available in both PVS-style and Dove-Tail style configurations, 4-way adjustment)

DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.



ADVANCED PHOTONICS

LIGHTWEIGHT THERMAL
GOGGLES

UNITEC-G



OPTIONAL ACCESSORIES (CONTINUED)



Low-Profile Flip-Up Helmet Mount HM-714LP-SR ("Shroud-Ready" version compatible with ops-core style helmets. Available in both PVS-style and Dove-Tail style configurations, 3-way adjustment)



Advanced Flip-Up Helmet Mount HM-714LP-C (Complete kit with straps. Available in both PVS-style and Dove-Tail style configurations, 3-way adjustment)



Built-In Video Recorder (comes with 32GB microSD card and SD adapter)



Interchange Lens GLI-50 (50mm f/1.0) with long-range adapter



External Video Recorder with SD Card



Wired Remote Control with Video-Out



Video-Out to USB Adapter



Portable Head-Mounted Display HMD-800/HMD-800-MOD (streams thermal video directly from the device)

DISCLAIMER. Technical description, certain optical-electronic-mechanical features of the product shown herein and/or some of its parts/components may not precisely represent the actual device and are subject to change without prior notice by the sole discretion of General Starlight Company, Inc. Mass of the product represents measurable weight of all components this product consists of, such as optics, mechanics and electronics. Weight of Image Intensifier tubes may vary depending on the type and make of Image Intensifier tube being used and therefore is listed separately. Dimensions of the product represents measurable size of the body, including all optical components attached and in fully folded position. Dimensions of additions such as mounting brackets, eyecups, objective lens covers, and/or battery extensions may vary and therefore are not listed herein. Copyright © 1992-2020 General Starlight Co., Inc. Canada. All rights reserved.