

# SPECIAL OPTICAL EQUIPMENT





Newcon Optik is an official supplier to US Government under GSA contract  
**GS-07F-0486M**

Newcon Optik supplies numerous Law Enforcement and Army divisions throughout the world. In 2002 the company concluded the contract # GS-07F-0486M with General Services Administration (GSA). This contract allows our potential and existing customers to purchase our products at GSA conditions and discounts.

**GSA Contract Information:**

Contract #:	GS-07F-0486M
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Contract end date:	Aug. 31, 2007
Business type:	Small business, Other than minority business enterprise
GSA Schedule:	84
GSA Schedule Description:	TOTAL SOLUTIONS FOR LAW ENFORCEMENT, SECURITY, FACILITIES MANAGEMENT, FIRE, RESCUE, CLOTHING, MARINE CRAFT AND EMERGENCY/DISASTER RESPONS
SIN:	426 4S
SIN Description:	Surveillance Systems
DUNS#	252911771
CAGE CODE#	L0076
Schedule#	84
PSC#	5855
FSC#	5855
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# LASER RANGE FINDERS

GS-07F-0486M

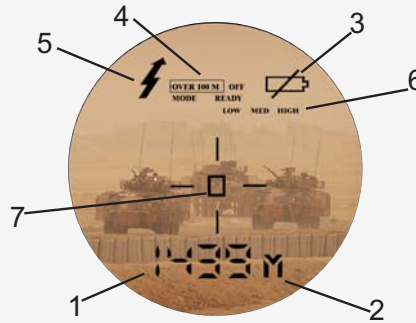
## CLOSE RANGE LASER RANGEFINDER MONOCULARS LRM 1200 / LRM 1500 / LRM 1500SPD

Close range Laser Rangefinder Monocular series comprises three models suitable for wide variety of tasks from amateur hunting to sniper and artillery shooting. All devices in the line are manufactured in unified ergonomic lightweight case with rubberized grip. These advanced Laser Range Finder systems provide instant distance and speed (SPD modification) measurements consistently and accurately. Implemented optics allows a sharp, clear image under all conditions.



**FEATURES:**

- 1 - Measurement result
- 2 - Units of measurement (Yards, Meters, KMH, MPH)
- 3 - Low battery indicator
- 4 - Over 100m indicator (optional)
- 5 - Laser active indicator
- 6 - Target quality indicator (optional)
- 7 - Reticle (cross or rectangular selectable)

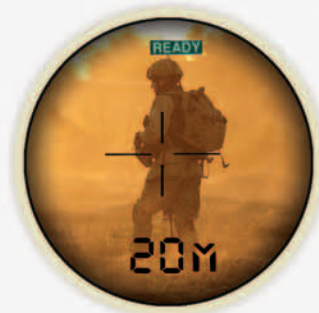


LRM1500SPD  
 AVAILABLE IN YELLOW

MANUFACTURER	NEWCON-OPTIK			BUSHNELL*	NIKON*
MODEL	LRM 1200	LRM 1500	LRM 1500 SPD	BUSHNELL 1000	NIKON 1200
<b>1. Optics</b>	Class 1 eye safe				
Magnification, x	7			6	7
Objective lens, mm	25			21	25
Field of view, °	8°			5.7°	5°
<b>2. Range Finder</b>	Class 1 eye safe				
Measuring range, m	20-1,200	20-1,500	20-1,500	20-1,300	20-1200
- Max. distance, m (white target)	1140	1460	1460	968	1200
- Max. distance, m (black target)	436	608	608	406	?
Accuracy, m	± 1	± 1	± 1	± 1	± 0.5/±1
Meters/Yards display	√	√	√	√	√
Target quality indicator	√	√	√	√	-
Last 10 readings recall	√	√	√	-	-
Reticle shape selection (+ or □)	√	√	√	-	-
Automatic rain mode	√	√	√	-	-
Automatic >100m mode	√	√	√	-	-
'Best Target' measurement	√	√	√	-	-
Optional speed detector	-	-	√	-	-
<b>3. Miscellaneous</b>					
Battery	9 V			9 V	CR2 lithium
Low battery indicator	√			√	√
Tripod socket	√			√	-
Weight without battery, g	420			383	278
Dimensions, mm	120x122x60			121x127x57	145x82
Country of origin	Canada			Japan	Japan



LRM1500 AVAILABLE  
 IN CAMOUFLAGE



\* DATA FOR COMPARISON ONLY. PRODUCT IS NOT FOR SALE.  
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# LASER RANGE FINDERS

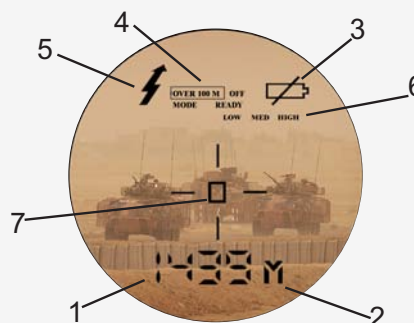
**GS-07F-0486M**

## LRB 7X50 CLOSE RANGE LASER RANGEFINDER BINOCULAR

The LRB 7x50 provides users with a binocular range finder that offers high quality optics and completely new digital technology, achieving better distance accuracy. The unit substitutes for a set of 7x50 binoculars and a monocular rangefinder. The outstanding 50 millimeters fast objective lenses allow a sharp and clear image under all conditions. LRB 7x50 has absolutely no competition in its class.



LRB 7X50



- 1 - Measurement result
- 2 - Units of measurement (Yards, Meters)
- 3 - Low battery indicator
- 4 - Over 100m indicator (optional)
- 5 - Laser active indicator
- 6 - Target quality indicator (optional)
- 7 - Reticule (cross or rectangular selectable)

MANUFACTURER	NEWCON-OPTIK	LEICA*
<b>MODEL</b>	LRB 7X50	GEOVID BD
<b>1. Optics</b>		
Magnification, x	7	7
Objective lens, mm	50	42
Exit pupil diameter, mm	7	6
Eye relief, mm	25	18.5
Field of view, °	5	5
Interpupillary distance, mm	58-72	58.5-71.5
Diopter adjustment range	± 4	± 4
<b>2. Range Finder Laser type</b>	Eye safe 905nm	Eye safe 860 nm
Measuring range, m	20-1,500	25-1,000
Accuracy, m	± 1	± 2
Resolution, m	1	1
Measurement time, sec	<1	<1
Meters/Yards display	√	√
Last 10 readings recall	√	-
Reticule shape selection (+ or □)	√	-
Target quality indicator	√	-
Automatic rain mode	√	-
Automatic >100m mode	√	-
'Best Target' measurement	√	-
<b>3. Miscellaneous</b>		
Battery	Standard 9v	6 V (type 2CR5)
Battery capacity, shots	>3000	>2000
Low battery indicator	√	√
Rubberized covering	√	√
Water resistant construction	√	√
Tripod thread	1/4"	1/4"
Dimensions, mm	210x150x80	206x178x81
Weight, kg	1.300	1.395



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# LASER RANGE FINDERS

**GS-07F-0486M**

## MEDIUM RANGE LASER RANGEFINDER MONOCULARS LRM 2000PRO / LRM 2500 / LRM 2500CI

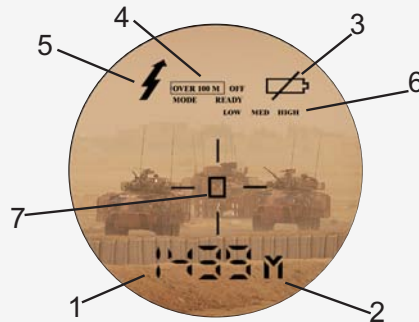
Medium range Laser Rangefinder Monocular family consists of three models in unified ergonomic lightweight case with rubberized grip. The models are identical in optics and vary in electronics. LRM 2000Pro has incorporated speed detector and consumer quality digital compass. LRM 2500CI has built-in high quality digital compass and inclinometer, which measures instantly height, azimuth, and elevation in addition to distance and speed. Computer output in LRM 2500/2500CI models provides immediate data acquisition by any system with standard RS-232 interface. Target selection logic and gating capability (LRM 2500/2500CI only) facilitate reliable measurements under unfavorable environmental conditions (bad weather, bushes, wires, etc.)



**LRM 2000PRO ALSO AVAILABLE IN CAMOUFLAGE**

**FEATURES:**

- 1 - Measurement result
- 2 - Units of measurement (Yards, Meters, KMH, MPH, Mils, Degrees)
- 3 - Low battery indicator
- 4 - Over 100m indicator (optional)
- 5 - Laser active indicator
- 6 - Target quality indicator (optional)
- 7 - Reticule (cross or rectangular selectable)



MANUFACTURER	NEWCON-OPTIK			LEICA*
	LRM 2000PRO	LRM 2500	LRM 2500CI	PLRF
<b>MODEL</b>				
<b>Magnification, x</b>		<b>7</b>		<b>6</b>
<b>Objective lens, mm</b>		<b>25</b>		<b>21</b>
<b>Field of view, °</b>		<b>8</b>		<b>5.7</b>
<b>Laser Type</b>	Eye safe 905 nm	Eye safe 905 nm	Eye safe 905 nm	Eye safe 905 nm
<b>Measuring distance range, m</b>	<b>20-2,000</b>	<b>20-2,500</b>	<b>20-2,500</b>	<b>5-2,500</b>
<b>Measuring azimuth range, °</b>	<b>360°</b>	-	<b>6,400 mils / 360°</b>	-
<b>Measuring elevation range, °</b>	-	-	<b>±60°</b>	-
<b>Distance accuracy, m</b>	<b>±1</b>	<b>± 1</b>	<b>± 1</b>	<b>± 2</b>
<b>Azimuth accuracy, °</b>	<b>±1</b>	-	<b>±0.4</b>	-
<b>Elevation accuracy, °</b>	-	-	<b>±0.4</b>	-
<b>Distance resolution, m</b>	<b>1</b>	<b>1</b>	<b>1</b>	-
<b>Measurement time, sec</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>?</b>
<b>Elevation measurement rate, sec</b>	-	-	<b>0.1</b>	-
<b>First / Last logic</b>	√	√	√	-
<b>Gating capability, m</b>	-	<b>100-2,500</b>	<b>100-2,500</b>	-
<b>Gating step, m</b>	-	<b>100</b>	<b>100</b>	-
<b>Meters/Yards display</b>	√	√	√	<b>?</b>
<b>Computer output</b>	-	<b>RS232</b>	<b>RS232</b>	-
<b>Last 10 readings recall</b>	√	√	√	-
<b>Reticule shape selection (+ or □)</b>	√	√	√	-
<b>Target quality indicator</b>	√	√	√	<b>?</b>
<b>Scan mode</b>	√	√	√	-
<b>Speed detector</b>	√	√	√	-
<b>Battery</b>	<b>9V standard or Ni-MH rechargeable</b>			<b>2x 3V Lithium</b>
<b>Low battery indicator</b>	√			√
<b>Tripod socket</b>	√			√
<b>Weight without battery, g</b>	<b>420</b>			<b>620</b>
<b>Dimensions, mm</b>	<b>120x122x60</b>			<b>120x101x50</b>

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# LASER RANGE FINDERS

**GS-07F-0486M**

## MEDIUM RANGE LASER RANGEFINDER BINOCULARS LRB 4000CI / LRB 3000PRO

Medium range Laser Rangefinder Binocular family was designed using the latest achievements in optronics and electronics. LRB 3000Pro has incorporated speed detector and consumer quality digital compass. LRB 4000CI has built-in high quality digital compass and inclinometer, which measures instantly height, azimuth, and elevation in addition to distance and speed. Computer output in LRB 4000CI model provides immediate data acquisition by any system with standard RS-232 interface. Target selection logic and gating capability (LRB 4000CI only) facilitate reliable measurements under unfavorable environmental conditions (bad weather, bushes, wires, etc.)



LRB 4000CI



LRB 3000PRO

MANUFACTURER	NEWCON-OPTIK		LEICA*
MODEL	LRB 3000PRO	LRB 4000CI	VECTOR IV
Magnification, x	7	7	7
Objective lens, mm	40	50	42
Exit pupil diameter, mm	5.7	7	6
Eye relief, mm	20	25	18.5
Field of view,	6	5	6
Interpupillary distance, mm	60-70	58-72	58.5-71.5
Diopter adjustment range	±4	±4	±6
Laser type	Eye safe 905 nm	Eye safe 905 nm	Eye safe 1550 nm
Measuring distance range, m	20-3,000	20-4,000	5-4,000
Measuring azimuth range, °	6,400 mils / 360°	6,400 mils / 360°	6,400 mils / 360°
Measuring elevation range, °	-	±60°	±45°
Distance accuracy, m	±1	±1	±2
Azimuth accuracy, °	±1	±1	±1
Elevation accuracy, °	-	±0.4	±0.2
Measurement time, sec	0.3	0.3	0.3
Elevation measurement rate, sec	-	0.1	0.2
First / Last logic	√	√	?
Gating capability, m	-	50-4,000	?
Gating step, m	-	100	?
Meters/Yards display	√	√	√
Computer output	-	RS232	RS232
Last 10 readings recall	√	√	-
Reticle shape selection (+ or □)	√	√	-
Target quality indicator	√	√	-
Scan mode	√	√	-
Speed detector	√	√	-
Battery	Standard 9v or Ni-MH rechargeable	Standard 9v, Ni-MH rechargeable or 3xCR123 Lithium	6 V (type 2CR5)
Battery capacity, shots	>2000	>10000	>2400
Low Battery indicator	√	√	√
Rubberized covering	√	√	√
Waterproof construction	√	√	√
Protection against 1.06 lasers	√	√	√
Tripod thread	1/4"	1/4"	1/4"
Dimensions, mm	158x145x69	210x150x80	226x178x82
Weight, kg	0.970	1.300	1.710



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# LASER RANGE FINDERS

**GS-07F-0486M**

## LRB 25000 LONG-RANGE EYE SAFE LASER RANGEFINDER

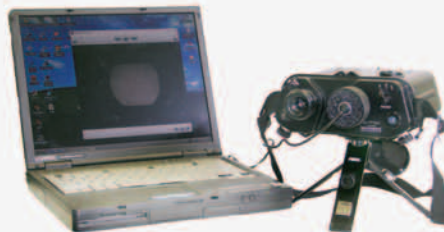
This Long-Range Laser Rangefinders are class 1 Eye Safe devices utilizing 1540 nanometers laser technology. These models are easy to use and withstand the harshest environmental conditions. The instrument has a comprehensive digital display and different range settings. A user can make First or Last target selection by pressing a button. The typical applications of these models are: topography and geodesy, military tasks, marine navigation, highway engineering, construction, airborne altimeters and locators, meteorology.



BACK VIEW



FRONT VIEW



OPTIONAL CAMERA ATTACHMENT FOR COMPUTER



SPECIFICATIONS:	LRB 25 000
Laser Type	Erbium Glass
Wavelength, mkm	1.54
Emission Energy, mJ	5-8
Pulse Duration at 1/2 width, ns	~30
Photo detector type	Ge Avalanche
Measuring Range, m	50-25,000
Accuracy, m	± 5
Gating range, m	60-4,000
Gating accuracy, m	20
Laser Beam Divergence(80% of energy), mrad	1.0
Pulse Repetition Rate, Hz	0.2
Dioptric Adjustment	± 4
Sight Magnification, x	7.5
Field of View, °	5.5
Viewing channel objective lens Aperture, mm	43
Operating temperature, °C	-30 ... +60
Protective filter against 1.06nm lasers	Optional
Standard 1/4" tripod thread	↓
Output Computer Interface	RS 232
Power Source	DC 12V / NiCd battery
Low Battery Indicator	Present
Dimensions, mm	220x200x90
Weight, kg	
With Battery	1.9
Without battery	1.4



# LASER RANGE FINDERS

GS-07F-0486M

## LASER RANGEFINDER MODULES LRM MOD 2/2CI / LRB MOD 4CI

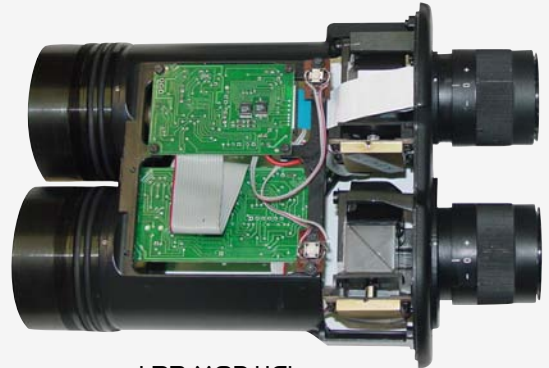
The LRF Modules share same electronics and optical elements as regular rangefinder monoculars and binoculars. They are beneficial for system integrators intending to incorporate laser rangefinder functionality into their systems. The module design allows to measure:

- \* Distances
- \* Azimuth (CI modification)
- \* Elevation (CI modification)
- \* Heights (CI modification)
- \* Speed, (MOD2 and MOD4 modifications)

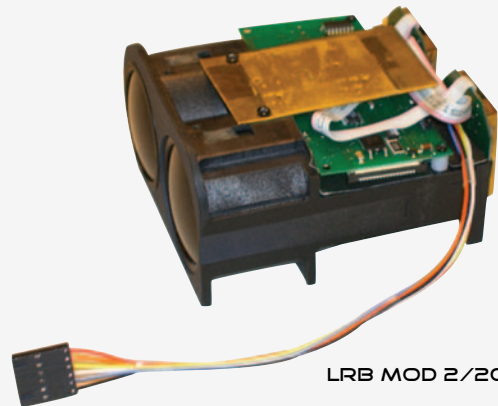
The modules have built-in computer interface, which allows immediate data acquisition by any system with standard serial interface. Depending on exact model, a customer has choice of various incorporated features, including, but not limited to gating capabilities, fast scan mode, speed measurement, target selection and more.

Typical areas of application are for incorporation inside:

- \* Thermal imagers
- \* Day/night surveillance systems
- \* Fire control systems
- \* Airborne optical systems



LRB MOD 4CI



LRB MOD 2/2CI

SPECIFICATIONS:	MOD 2/2CI	MOD 4 CI
Laser type	905 nm, eye-safe	
Measuring distance range, typical, m	2500	4000
Distance accuracy, m	±1	
*Measuring azimuth range	6,400 mils/ 360 °	
*Measuring elevation range, °	±60	
*Azimuth accuracy, °	±1	
*Elevation accuracy, °	±0.4	
Distance resolution, m	1	
Pulse repetition rate, Hz	4	
Pulse energy, mJ	**0.03	
Pulse duration, ns	30	
Beam divergence, maximum, mrad	3.5	1
Power source, V DC	9	
First / Last logic	✓	✓
Gating capability	✓	✓
Computer output	✓	✓
Dimensions, mm	97x116x48	180x160x80
Weight, kg	0.27	1.1

\* CI MODIFICATION ONLY  
 \*\* > 60 PULSES IN ONE MESURMENT

# NIGHT VISION EQUIPMENT

**GS-07F-0486M**

## NVS 14 NIGHT VISION MONOCULAR / GOGGLES

Battle tested NVS 14 goggles can address any Military or Law Enforcement ability to observe the terrain under the darkest conditions. This model is in service with many militaries throughout the world. Extreme durability combined with unprecedented image quality support its impeccable reputation. Two monoculars can be easily attached together. This quick installation transforms the system into fully operational dual channel goggles / binocular with true stereoscopic vision. Two possible types of standard batteries add flexibility to the device usage in field environment. Large variety of available accessories allows the unit usage with different types of helmets, as a night vision video / camera attachment, as a rifle scope or as a 3x magnification night scope with an additional add-on lens. The device is produced with either Gen. 2+ or Gen.3 Image Intensifier Tubes. It utilizes standard ANVIS size tubes, thus allowing sourcing the tubes from several competing manufacturers. The newest NVS 14-3/HD is the first mass production 3rd generation goggles without US components.



NVS 14 BINOCULAR



HELMET MOUNT



NVS 14/3X



CAMERA ADAPTABLE



WEAVER MOUNT

SPECIFICATIONS	NVS14			
Image Intensifier Tube (IIT)	18 mm Gen. 2+ or Gen. 3			
Magnification, x	1			
Field of view, °	40			
Objective F number	F1.17			
Objective focal length, mm	27.5			
Focus range, m	0.25- ∞			
Exit pupil, mm	25			
Eye relief, mm	30			
Dioptric correction	±5			
Battery type	1 std AA battery or 1 std CR123 battery			
Battery life, hours	Over 40 hrs. without I/R; over 20 hrs. with I/R			
Low battery indicator	✓			
I/R ON indicator	✓			
Waterproof 2 m, 2 hours or up to 20 m (optional)	✓			
Dimensions, mm	120x42x62			
Weight, kg	0.350			
Modification	NVS14-2/HD	NVS14-2/XT	NVS14-3/HD	NVS14-3/XT
Generation	2+		3	
IIT modification	NC063631IC	NCXT3631IC	N3063631IC	N3XT3631IC
IIT resolution, lp/mm	45-57	57-72	45-57	57-72

# NIGHT VISION EQUIPMENT

**GS-07F-0486M**

## NVS 7 SERIES OF NIGHT VISION GOGGLES

Battle tested NVS 7 goggles can address any Military or Law Enforcement ability to observe the terrain under the darkest conditions. The goggles of this model are in service with over 40 militaries throughout the world. The large variety of available models allows the user to choose a variant that would satisfy his particular needs. Waterproof, lightweight, and compact - this advanced system is also the most affordable offer on the world market.

NVS 7-2/HD and NVS7-2/XT provide an unprecedented quality equivalent to 3rd generation models at much lower price. NVS 7-3/HD is the first mass production 3rd generation goggles without US components. Thus, no US export restricting rules are in effect with this model. NVS 7-2/WA (Wide Angle) breaks the common conception of night vision goggles design. No more 'tunnel vision'! By using the advanced 25 mm tube we get 60 degrees Field of View that provides 2.5 times larger spatial angle (58% horizontal x 58% vertical) than a conventional 40 degrees design. In addition, NVS7 goggles can be supplied with 3x and 5x add-on lenses, which can be put on and taken off nearly immediately.



NVS 7-2



NVS 7 WITH 3X LENS



NVS 7 ON HELMET



LASER AIMER/ILLUMINATOR  
LAM 2IR



Model	NVS 7-2/HD	NVS 7-2/XT	NVS 7-2/WA	NVS 7-3/HD
Image Intensifier Tube (IIT)	18 mm Gen. 2+		25 mm Gen. 2+	18 mm Gen. 3
IIT model	NC064322	NCXT4322	NC064331_25	N3064322
IIT resolution, lp/mm	45-57	57-72	45-72	45-72
Field of view, °	40		60	40
Eye relief, mm	25		15	25
Objective focal length, mm	27.5		24.76	27.5
Objective F / T numbers	F 1.2 / T 1.25		F1.35 / T1.4	F1.2 / T1.25
Magnification, x	1			
Interpupillary distance, mm	57-73			
Focus range, m	0.25- ∞			
Dioptric correction	±5			
Battery type	2 standard AA batteries			
Battery life, hours	Over 80 hours without I/R; over 30 hours with I/R			
Low battery indicator	√		√	√
I/R ON indicator	√		√	√
Momentary I/R button	-		√	-
Automatic shut-off in the up-rise position (optional)	√		√	√
Waterproof 2 m, 2 hours	√		√	√
Dimensions, mm	150x120x55			
Weight, kg	0.480			

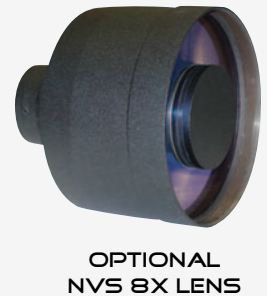


# NIGHT VISION EQUIPMENT

**GS-07F-0486M**

## NVS 7 SERIES OF NIGHT VISION BINOCULARS

Battle tested NVS 7 binoculars are based on the popular NVS 7 goggles models. The 1x objective lens of the goggles is easily interchangeable. The personnel can use either goggles or binocular modification according to changing requirements. All NVS 7 goggles models can be transformed into binoculars in less than a minute. The binoculars are supplied with either 4x or 8x magnification lenses. NVS 7 binoculars are powerful night vision devices suitable for battle, marine or rescue operations under the darkest conditions. NVS 7 /4x is the smallest size and weight 4x binocular in its class without compromising the optical quality. The 8x catadioptric lens with large aperture makes NVS 7 /8x binocular an absolutely unique long-range observation device. Unrivalled quality high magnification image is obtained within a reasonable size package. This model has tripod mount, which allows its usage at a stationary observation point.



Model	NVS 7-2/4x HD	NVS 7-2/4x XT
	NVS 7-2/8x HD	NVS 7-2/8x XT
Image Intensifier Tube	18 mm Gen. 2+	
IIT model	NC064322	NC064322
IIT resolution, lp/mm	45-57	57-72
Eye relief, mm	25	
Interpillary distance, mm	57-73	
Focus range, m	10-∞	
Dioptric correction	± 5	
Battery type	2 standard AA batteries	
Battery life, hours	Over 80 hours without I/R; over 30 hours with I/R	

Model	NVS 7-2/4x HD	NVS 7-2/8x HD
	NVS7-2/4x XT	NVS7-2/8x XT
Magnification, x	4	8
Field of view, °	10	5
Objective focal length, mm	100	216.4
Objective F number	1.5	2
Tripod thread, standard 1/4"	-	
Dimensions, mm	165x120x70	240x130x130
Weight, kg	0.690	1.470

# NIGHT VISION EQUIPMENT

**GS-07F-0486M**

## DN 482 NIGHT VISION RIFLE SCOPE

The DN 482/483 is a modern multi-purpose Night Vision weapon scope, built to fit the most demanding military specifications. The unit is in service with several militaries around the world. This model is easy to service and maintain. It utilizes standard Image Intensifier Tubes, available from leading USA or European manufacturers. The scope body is made of lightweight composite materials in order to optimize the weight.



DN 482-4X



DN 482- 6X



DN 482 ON A .308 RFILE



DN 482 ON A AR-15  
TYPE RIFLE

### FEATURES:

- \* Long range of vision
- \* All types of weapon mounts are available (including Russian side mount)
- \* Shock proof, built for use with heavy recoil weapons
- \* Automatic brightness control
- \* Illuminated red or yellow color Mil-Dot reticle with adjustable brightness control
- \* Reticle color (red or yellow) selection switch (optional)
- \* Long eye relief distance
- \* Precision windage /elevation adjustment with audible clicks
- \* Shock resistant lightweight armored plastic body
- \* Powerful infrared illuminator (optional)
- \* Camera/video adapter (optional)

### SPECIFICATIONS

Model	DN 482 4X	DN 482 6X
Magnification	3.7	6.1
Field of view, degrees	10	6.25
Objective lens, focal length, mm	100mm F/1.5	165mm F/2.0
Eye relief distance	45	
Dioptic correction	-4...+3	
Image Intensifier Tube (IIT)	ANVIS type Gen2+	
Power supply, battery type	2 x AA	
Battery life, hours	Over 60	
Operating temperature, °C	-40 to +55	
Relative humidity, %	98	
Dimensions, mm	265x85x75	345x91x91
Length w/o rubber eyepiece	220	300
Weight, kg	0.83	1.1

# NIGHT VISION EQUIPMENT

**GS-07F-0486M**

## NIGHT WITNESS - ADVANCED NIGHT VISION SURVEILLANCE SYSTEM

\* NightWitness is distinguished by its handy modular design along with an intelligent control system. It can be supplied in two versions as 1.25x and 5x scope. In addition, it can be equipped with wide variety of accessories like interchangeable professional lenses including Sigma, Canon, Nikon and other brands, and professional optical adapters for coupling with CCTV, photo and video cameras.

\* Compact lightweight Night Witness monocular is designated for low light observation & photo/video surveillance. It is the most versatile observation and orientation electrooptical system for law-enforcement and rescue teams, professional photographers, coast guard, etc. Durable waterproof corrosion-proof body made from light aluminium and titanium alloys guarantees long trouble-free operation. Replaceable humidity collector filled with desiccant improves its reliability substantially.

\* Unique high-light cut off circuitry protects the image intensifier tube. 'Intelligent' TTL sensor measures an illumination level directly on photocathode surface and shuts the power down better than autogating mechanism of the most expensive image intensifier tubes.

\* Advanced indication system in the field of view facilitates the night scope operation essentially with four color LEDs. Built-in IR LED allows close range covert observation in total darkness. Handy 3-position rotary switch prevents involuntary IR illumination activation. External high-intensity IR-laser illuminator is available as an option.

\* The system contains special protection circuit to prevent rechargeable cell over-discharging. If necessary the device can be powered from remote source 3.5 ... 15 V (car lighter socket or similar).

\* NightWitness is the smallest, lightest and the most robust device in the world, purposely built for advanced surveillance and evidence recording.



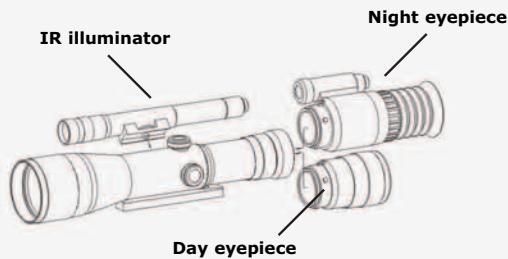
SPECIFICATIONS	
Magnification	5 x (100 mm/ F1.7) - standard 1.25x (25 mm/ F1.3) - standard
Field of view, °	10.5 (100 mm/ F1.7) -standard 40 (25 mm/ F1.3) - optional
Focusing range, m	3 ... ∞ (100 mm/ F1.7)
Image Intensifier Tube	18 mm, Gen 2+ or 3, 45 - 64 lp/mm
Interchangeable lenses	
Lens mount	C-mount, 1" - 32 TPI
Standard	100 mm/ F1.7 (sealed)
Optional	25 mm/ F1.3
Interchangeable	The whole line of 1" C-mount lenses including zoom, tele- and wide-angle. SLR camera lenses using corresponding adapters (e.g. Canon EOS & Nikon AF to C-mount)
Eyepiece	
Focal length, mm	20
Eye relief, mm	16
Exit pupil diameter, mm	7
Diopter adjustment	-4 ... +4
Operational mode indication	4 color LEDs in the field of view
Electrical	
Power supply	one AA Ni-MH rechargeable cell 1.2 V (not less 2300 mAh) or one AA alkaline cell 1.5 V
Continuous operation time (20°C), hours	10 ( 5 with IR )
IR LED illuminator (850 nm), mW	5
External power supply	3,5 ... 15 V (50 mA)
Environmental	
Operational/ Storage temperature,	- 40 ... +55 / - 45 ... +65
Humidity, %	98
Mechanical	
Dimensions, mm (5x/1.25x)	220x70x60 / 150x70x47
Weight with battery, g (5x/1.25x)	550 / 400
Tripod thread	Standard 1/4" 20 TPI



# DAY/NIGHT EQUIPMENT

**GS-07F-0486M**

## DN 510 DAY/NIGHT RIFLESCOPIES (GEN. 2+)



### APPLICATIONS:

- \* Night surveillance / Hunting
- \* Patrol / Search & Rescue
- \* Police / Law Enforcement / Military

### KEY FEATURES:

- \* Interchangeable day and night eyepieces maintain rifle's zero
- \* Unique high quality specially designed day/night optics (F/2.0), ensuring:
  - Long range of vision (450-1000m) at low levels of light exposure and more than 100-250m for no-light situations with IR illuminator
  - Effective use under star Light ( $10^{-3}$  Lx) and Night Cloudy Sky ( $10^{-4}$  Lx)
  - Wide field of view
  - Variable power
  - Wide range focus adjustment
  - Comfort of observation
- \* Precision internal windage / elevation adjustments with tactile audible clicks and fine 1/4 MoA step
- \* Water resistant
- \* Optional IR illuminator 75 mW



**DN 510 ON RIFLE**

SPECIFICATIONS	DN 510	
	Day	Night
Magnification	3.0-6.0	3.7-7.3
Field of view, °	10.0-5.2	
Objective lens, focal length, mm	100/F2.0(at 3x)	
Eye relief, mm	45	
Dioptic correction	-4...+2	
Image Intensifier Tubes (IIT)	Gen, 2+ or 3	
Operating temperature, °C	-40°C to +55°C	
Windage/elevation adjustment step, MoA	1/4	
Windage/elevation adjustment range, MoA	150 (600 clicks)	
Power supply	1 CR123	
Battery life, hours	Over 60	
Dimensions, mm	340x78x74	
Weight, kg	0.97	1.10



# DAY/NIGHT EQUIPMENT

**GS-07F-0486M**

## NVS 10MG DAY/NIGHT WEAPON SCOPE

The NVS 10 family consists of unique Day / Night weapon scopes. These models allow the convenience of 24 hr/day usage. The user switches between day and night modes with flip of a lever. Now there is no need to carry separate Night Vision Weapon Scope and Day Scope! NVS10 scopes eliminate the tedious task of changing sights between Day and Night operations with consequent re-zeroing. NVS 10MG works with any weapon, including machine guns, antitank guns, grenade launchers, etc. The sights contain an adjustable brightness lit ballistic reticle. The reticle can be changed (at the factory) to match the particular weapon/ammunition combination.

### FEATURES:

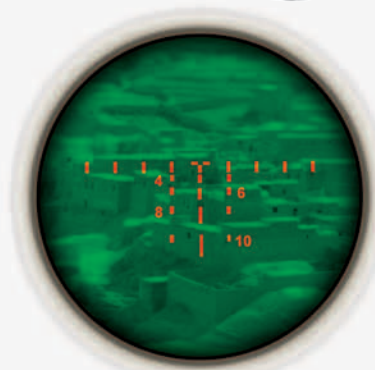
- \* Suitable for a variety of weapons, including M16, AK 47 variants, Carl Gustaff Grenade Launcher, RPG, Machine guns etc.
- \* Can be supplied with weaver (picatinny std mil. 1913) NATO mount, East Block side mount or a custom mount
- \* Precise internal Windage/Elevation adjustments with audible clicks
- \* Lit ballistic reticle with adjustable brightness
- \* Automatic brightness protection



NVS 10 MG WITH EAST EUROPEAN SIDE MOUNT



NVS 10 MG ON WEAVER/PICATINNY RAIL



VARIETY OF BALLISTIC RETICLES ARE AVAILABLE



SPECIFICATIONS	NVS 10MG	LITTON PVS 10 *
Magnification	4x	8.5
Field of view, °	9	2
Objective lens focal length, mm	108 / F1.5	125 / F1.7
Objective lens diameter, mm	72	73.5
Focus range, m	50 -	
Eyepiece relief distance, mm	50 ∞	
Exit pupil diameter, mm	9	
Dioptic adj. relative to reticle	-0.5...-1	
Windage/Elevation adjustment, MoA	±34	
Windage/Elevation step, MoA	0.7	
Image Intensifier Tube	18 mm, Gen. 2+ or 3	18 mm, Gen.3
Power supply	2xAA	2xAA
Battery life, minimum, hours	60	
Operation temperature, °C	-55...+55	
Storage temperature	-55...+70	
Waterproof construction	Yes	
Dimensions, mm	308x190x95	432x102x102
Weight, kg	1.8	2.2

### ACCESSORIES

- \* WEAPON MOUNT
- \* CARRYING CASE
- \* RUBBER EYE GUARD
- \* LENS CAPS
- \* ENGLISH MANUAL
- \* WARRANTY CARD

\* DATA FOR COMPARISON ONLY, THE PRODUCT IS NOT FOR SALE

# STABILIZED BINOCULARS

**GS-07F-0486M**

## STABILIZED IMAGE BINOCULARS SIB 20X50M

The newest SIB 20X50M brings this technology one step further. The improved stabilization mechanism increases the recognition range five times. SIB 20X50M is the only model in the world, which provides the resolution of 3 angular seconds in stabilization mode. Weight and dimension parameters put this binocular beyond any competition. This unique optical instrument utilize a revolutionary patented mechanical system (no need for batteries!) to produce a stabilized image. With image stabilizers, an observer can use high power binoculars within moving / vibrating surroundings such as aboard an aircraft, land vehicles, vessels or other mobile environment.

**FEATURES:**

- \* Stabilized image
- \* Rigid construction
- \* Value priced up to 80% below competition
- \* Weather proof
- \* Surveillance under any motion condition
- \* No batteries required
- \* Wide angle image



	NEWCON OPTIK SIB 20X50M	CANON * 15X50 IS	FUJINON * S1640	ZEISS * 20X60 S
<b>Magnification</b>	20	15	16	20
<b>Objective lens, mm</b>	50	50	40	60
<b>Eye relief, mm</b>	11	15	12	?
<b>Field of View, °</b>	3.2	4.5	3.4	2.9
<b>Apparent FOV, °</b>	66	67.5	54.4	58
<b>Resolution in the center, " **</b>	2.8	5.3	10	5
<b>Stabilization System</b>	Mechanical	Electronic	Mechanical-Gyro	Mechanical
<b>Delay for Stabilization start</b>	0	0	1 minute	0
<b>Batteries</b>	Not required	2xAA	4xAA	Not required
<b>Cold temperature operations</b>	YES	Problematic	Problematic	YES
<b>Compensation Angle, deg. **</b>	± 5	± 0.7	± 5	± 3.5
<b>Mean time before failure(MTBF), h</b>	50,000	3,000	200	3,000
<b>Dimensions, mm</b>	217x158x59	185x141x73	200x210x90	275x161x78
<b>Weight,kg</b>	1.250	1.250	1.900	1.660

PERFORMANCE SCALE USED IN THE TABLE:    HIGHEST PERFORMANCE    AVERAGE PERFORMANCE    LOWER PERFORMANCE

\* Data for comparison only, the product is not for sale.  
 \*\* Compensation Angle and resolution are the most important criteria characterizing the quality of the achieved image stabilization.



# STABILIZED BINOCULARS

GS-07F-0486M

## SIB 16X40WP GYRO STABILIZED BINOCULARS

Gyro Stabilized Binoculars incorporate gyroscopic image stabilization technology. It enables the user to observe distant objects from moving platforms without degradation of the image resolution, which is typically caused by mechanical vibrations or normal hand tremors. Combining fully coated, computer designed optics with high-speed internal gyro stabilizing system the SIB 16x40GR and SIB 16x40WP are the ultimate instruments for long-range observation, tracking and surveillance.

### FEATURES:

- \* Stabilized image
- \* Rigid construction
- \* Value priced up to 70% below competition
- \* Weather proof
- \* Surveillance under any motion condition
- \* Alternative external power supply
- \* Wide angle image



SIB 16X40WP

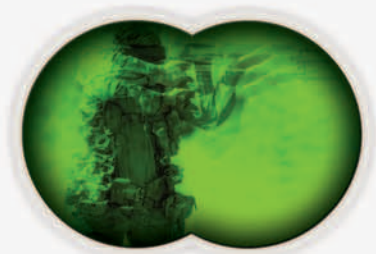
### ACCESSORIES:

- \* Carrying Case
- \* Strap
- \* Lens Caps
- \* Amber Filters (optional)
- \* DC regulator
- \* Night Vision eyepieces (optional)
- \* Warranty card
- \* Manual



COMPLETE SET

BEFORE



AFTER



SPECIFICATIONS	NEWCON SIB 16X40 WP	FUJINON STABISCOPE 16X40*
Magnification, x	16	16
Angular field of view, degrees	3.4°	3.4
Minimum focus, m	30	51
Interpupillary adjustment, mm:	58 - 72	60 - 70
Power source:	6 (AA) batteries	4 (AA) batteries
From an on-board source, V	12	12 - 32
Angular velocity of panning in any direction, degree/sec:	0 - 6	?
Stabilization freedom, degrees	±5	±5
Overall dimensions, mm:	215x190x96	210x200x96
Weight (w/o batteries), kg,	1.98	1.89
Temperature range, °C	-30 ... +55	?
Relative humidity (at +25°C) %:	up to 98	?

\* Data for comparison only, the product is not for sale.

# NIGHT VISION EQUIPMENT

**GS-07F-0486M**

## ACCESSORIES



### **NVS 3X Military Lens**

A high performance Galilean afocal telescope, the 3X Military Lens with F/1.5 optics mounts to the objective lens of many night vision devices with 1x magnification to convert them into 3x scopes or binoculars. It can be screwed into PVS7 objective directly or attached quickly through removable adapters with rubber tightening rings to NVS7, NVS14, many US made PVS7, PVS14 and some other models.



### **NVS 4X Military Lens**

The 4X Military Catadioptric Lens with F/1.5 optics mounts to the body of the NVS7 goggles, turning them into the most compact and lightest night vision 4x binoculars.



### **NVS 8X Military Lens**

The 8X Military Catadioptric Lens with F/2.0 optics mounts to the body of the NVS7 goggles, turning them into the most robust and efficient night vision 8x binoculars.



### **NVS H Mount**

Kevlar Helmet Mount, is a metal helmet mount for attachment of NVS-14 or NVS-7 Night Vision Goggles to a standard PASGT infantry kevlar helmet. Helmet mount fits securely onto PASGT helmet via a rugged strapping device and grooved hooks.



### **NVS W mount**

Weaver (picatinny) mount for attaching NVS -14 to Military Standard 1913 rails, Allows to attach the monoculars to laser range finders, Thermal imagers, tripods, rifles or any other platform with weaver mount.



### **NVS QR mount**

Throw lever weapon mount with accutorque wheel for attaching the NVS-14 night vision monocular to 1913 Mil-std rails. It features quickly detach mechanisms that allow convenient mounting and dismounting of the night vision device.



### **Camera Adapter Assembly**

This attachment allows night-time photography and video recording through night vision monoculars or binoculars NVS7/NVS14. The adaptor replaces rubber eye-piece. The adapter threads fit camcorders with 37mm thread and cameras with 25 mm thread in front of the objective lens.

# INFRARED ILLUMINATORS / AIMERS

GS-07F-0486M

## LASER AIMER MODULES LAM 2 / LAM 10M

These unique infrared and/or visible instruments provide an instant laser-aiming dot for firing without eyesight strain. Fire adjustments (windage/elevation) are performed with a simple and reliable mechanism. Both Picatinny and barrel mounts are available. The units are waterproof and have a durable metal construction for maximum utility. LAM 10M models are aimer only. LAM 10M is eye-safe and reaches as far as 200 meters (measured from the shooter side). LAM 10M 3A and LAM 2 utilize more powerful lasers that allow reaching 1-2 kilometers distance. LAM 2 modification provides additional scene illumination through infrared illuminating channel with variable dot size. The units meet full MIL-SPECS.

Both models can be controlled from mode selector switch or remote control, which is fixed on the rifle with a Velcro tape in the place that is convenient for the shooter. The membrane type button allows momentary operations with the unit, so that the operator can turn it on only when it is really needed. This mode saves battery life and decrease the probability for the shooter to disclose himself to the opposite side armed with night vision devices. When LAMs are controlled from the mode switch only, the shooter keeps both hands free. This can be crucial in combat operations.



LAM 2 IR



LAM 10

### FEATURES:

- \* Full mil specs, waterproof
- \* Compact size, light weight
- \* Quick release mount (LAM 2 only)
- \* Windage/elevation adjustments
- \* Remote control (membrane type switch)
- \* 'Laser On' warning indicator

### ACCESSORIES:

- \* Case
- \* Weapon mount (exact type to be specified)
- \* Remote control
- \* Velcro tape
- \* Battery (optional)
- \* Allen wrenches (LAM 10M only)



TECHNICAL DATA	LAM 2 I/R		LAM 10M	LAM 10M 3A
	ILLUMINATOR	AIMER		
Visibility distance, m	2000	2000	>200	>1000
Beam divergence, mrad	3-170	0.3	0.5	
Wavelength, nm	850	830-850(I/R) or 650 (visible)*	830-850(I/R) or 650 (visible)*	
Spot size at a 50m distance	>17.5	25	25	
Eye-safety	Training eyesafe Live fire not eyesafe		Eye-safe	Not eye-safe
Windage/elevation adjustment range, mrad	±8		±20	
Step of adjustment, mm/100m (mrad)	50 (0.5)		50 (0.5)	
Adjustment accuracy after 1000 shots, mrad	0.5		0.1	
Adjustment accuracy after 100 'install/remove' operations, mrad	0.25		1.0	
Battery	CR123 Lithium*		CR123 Lithium or AA*	
Battery life, hours of continuous work	>10		>30	>10
'Laser On' warning indicator	Present		Present	
Operating temperature range, °C	-40 ...+60		-40 ...+60	
Dimensions, mm:	90x64x45		113x45x32	
Weight, kg	0.250		0.200	



# SPECIALTY DAYTIME OPTICS

**GS-07F-0486M**

## AN 7X50M22 /AN 10X50M22

The best optical technologies were applied in these binoculars design. These models provide impressive light transmission and resolution. They are waterproof and shockproof, meeting all applicable military standards. Being a lightweight and compact, they are perfectly in line with the most contemporary warfare equipment and delivers brilliant clear vision.

### FEATURES:

- \* Lightweight metal construction with rubber armor provides a sure grip and great durability.
- \* Special design of prisms makes the units extremely shockproof.
- \* Fully broadband multi-layer coating optics allows the highest possible brightness - better than 98% of light transmission.
- \* The image is flat field, distortion free, and equally sharp from center to edge.
- \* Long eye relief delivers convenience of observation.
- \* The models are dry nitrogen filled and O-ring sealed for 100% waterproof & fog proof. They provide completely fog-free vision in the temperature range from -40°C to +70°C



### ACCESSORIES:

- \* Case
- \* Straps
- \* Tripod mount
- \* Amber filters (optional)
- \* Objective caps
- \* Eye piece caps
- \* Manual
- \* Warranty card

SPECIFICATIONS	AN 7X50	AN 10X50
Magnification, x	7	10
Object lens diameter, mm	50	50
Prisms	Bak4	Bak4
Coating	FMC	FMC
Field of view, °	7.5	6.5
Apparent field of view, °	53	65
F.O.V M / 1000 M	131	114
F.O.V FT / 1000 YDS	393	342
Exit pupil diameter, mm	7.14	5
Brightness index	51	25
Interpupillary adjustment distance, mm	56-74	56-74
Eye relief, mm	23	18.5
Focus, m	5-infinity	6-infinity
Waterproof	Yes	Yes
Shockproof	Yes	Yes
Drop test standard, height, m	1.8	1.8
M22 Reticule	Yes	Yes
Operating temperature, °C	-40 ... +70	-40 ... +70
Dimensions,mm	210x200x70	220x180x75
Mass, g	1.620	1.600

