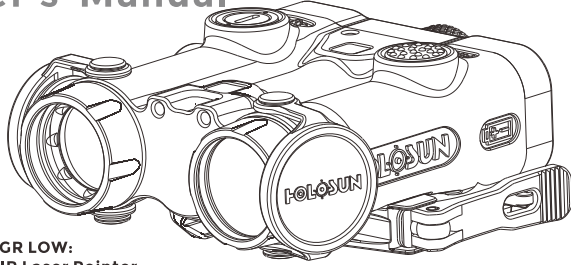


LE420-GR/RD LOW

Multi-Laser Devices

User's Manual



LE420-GR LOW:
Green/IR Laser Pointer
IR Laser/LED Illuminator
LE420-RD LOW:
Red/IR Laser Pointer
IR Laser/LED Illuminator



LASER RADIATION
DO NOT STARE INTO BEAM

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1. GENERAL INFORMATION

1.1 SYSTEM DESCRIPTION

The LE420-GR/RD LOW is a Class IIIa laser device that features a Visible Laser Pointer for daylight or low light operations, an IR Laser Pointer for NVD, an IR Illuminator and a white LED Illuminator. The LE420-GR/RD LOW emits the highly collimated Visible Pointer, IR Pointer for precise aiming. The Visible Pointer, IR Pointer and IR Illuminator are concentric.

1.2 COMPONENT DESCRIPTION

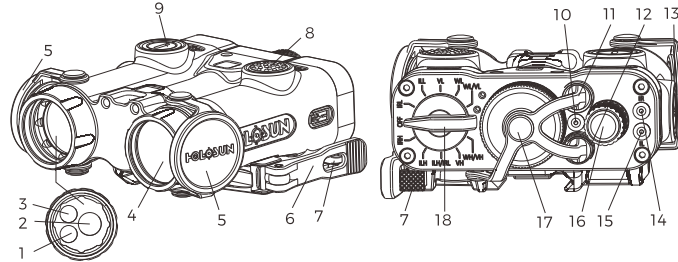


Fig 1

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1	Green Laser	7	Locker	13	Windage Adjuster
2	IR Pointer	8	Fire Switch	14	IR Pointer Indicator
3	IR Illuminator	9	Elevation Adjuster	15	IR IL Indicator
4	White LED	10	Recharging Indicator	16	Focusing Knob
5	Protective Cover	11	Recharger Port	17	Battery Compartment
6	Handle	12	Remote Cable Switch	18	Mode Selector

1.3 PACKING

The package should contain the following items:

- LE420-GR/RD LOW Lasers Sight
- User manual
- Trox Tool
- lens cloth
- 2*CR123A Battery

2. FEATURES

- The Visible Pointer, IR Pointer and IR Illuminator are concentric so that the user could adjust three beams simultaneously via same adjuster.
- The green laser is direct green laser that is more energy-saving, brighter, more stable than DPSS laser.
- The LE420-GR/RD LOW features the low-battery indicator, and IR Pointer and IR Illuminator indicators, and recharging indicator.
- Quick Release Mount.
- Waterproof and Waterproofed Remote cable switch.
- The focus ranges from 95 to 210mrad and the knob locates at ocular side.

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3. SPECIFICATIONS

Parameter		LE420-GR LOW				LE420-RD LOW			
Laser Sight	Wavelength(nm)	520	830	635	830				
	Output Power (mW)	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi
		<1	<5	0.3	<0.7	<1	<5	0.3	<0.7
	FDA Class	II	IIIa	II	II	II	IIIa	II	II
Divergence(mrad)	0.6		0.5		0.6		0.5		
Laser illuminator	Wavelength(nm)	830							
	Output Power(mW)	Lo	0.3		Hi	<0.7			
	Divergence(mrad)	Adjustable:95 - 210							
White LED Illuminator	FDA Class	IIIa							
	Color Temp	6000K							
Adjustment range	Output Power(Lum)	600							
	Battery	CR123A×2/18650×1							
Operating Temperature	-40°C-51°C								
Storage Temperature	-40°C-65°C								
Water Proof	Ip67								
Color housing	Desert Sand/ Matte Black								
Length:mm	95								
Width × height:mm	76×37								
Weight:(g)	315								

4. OPERATING INSTRUCTIONS

4.1 SAFTY SUMMARY

WARNING - LASER RADIATION

- DO NOT stare into the laser beams.
- DO NOT look into the laser beam through binoculars or telescopes.
- DO NOT point the laser beam at mirror-like surfaces.
- DO NOT shine the laser beam into other body's eyes.

SAFTY ALERTS

WARNING

- DO NOT store LE420-GR/RD LOW with battery installed.
- Ensure the Mode Selector is OFF before checking the Lens of LE420-GR/RD LOW.

- Do not recharge the non-chargeable CR123A battery.

CAUTION

- Identifies risk of damage to the equipment.
- All the directions are given from the shooter's viewpoint.
- DO NOT over-adjust the W&E adjuster by forcing them beyond their end of travel.

4.2 BATTEY INSTRUCTIONS

4.2.1 BATTERY INSTALLATION

1. Unscrew the battery cap in a CCW direction. Remove and properly discard the used battery.
2. Inspect the battery compartment for dirt, moisture and corrosion, and then clean the battery compartment if needed.

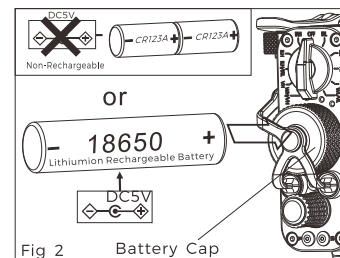


Fig 2

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3. Inspect the O-ring seal on the battery cap to make sure that it is free of sand and dirt particles and that it has not been damaged.

4. Install the battery in a direction marked on the nearby housing and then screw the battery cap in a CW direction.

4.2.2 LOW BATTERY INDICATOR

The flickering lasers or indicators represent the low battery.

4.2.3 Battery Recharging

Warning: Do not recharge CR123A battery.

The recharging voltage is DC5V and the input side is USB port.

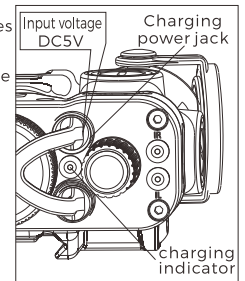


Fig 3

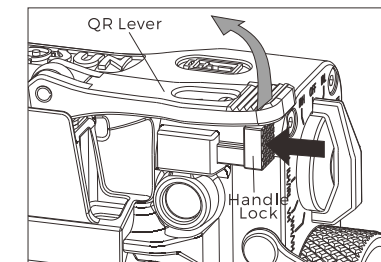


Fig 4

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4.3 MOUNTING INSTRUCTION

The repeatability accuracy is less than 2 MOA.

First Use:

1. Use screwdriver to loosen the mount of LE420-GR/RD LOW in order to install the LE420-GR/RD LOW on the rail.
2. Open the handle lock and then load the LE420-GR/RD

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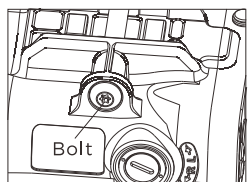


Fig 5

4.4 Mode Selector

The LE420-GR/RD LOW has 11 modes and is set at mode OFF. Please make sure the mode selector is at one of 11 modes and do not locate the mode selector at any position between two modes.

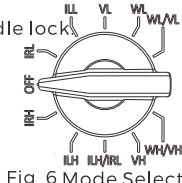


Fig 6 Mode Selector

Mode	Description
WL/VL	Low power laser and Low power White LED will be on when PRESS Fire Switch
WL	Low power White LED will be on when PRESS Fire Switch
VL	Low power visible Laser Pointer will be on when PRESS Fire Switch
ILL	Low power IR Illuminator will be on when PRESS Fire Switch
IRL	Low power IR Pointer will be on when PRESS Fire Switch
OFF	No light will be on when PRESS Fire Switch
NOTE: Take off the safety screw and store it on the body if use the modes below	
IRH	High power IR Pointer will be on when PRESS Fire Switch
ILH	High power IR Illuminator will be on when PRESS Fire Switch
ILH/IRL	Low power IR Pointer and High power IR Illuminator will be on
VH	High power visible laser will be on when PRESS Fire Switch
WH/VH	High power visible laser and High power White LED will be on when PRESS Fire Switch

The "IR" indicator will be active if the IR pointer is on. The "IL" indicator will be active if the IR illuminator is on.

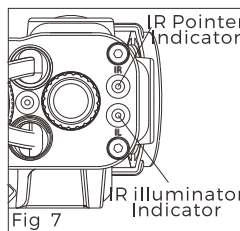


Fig 7

IR INDICATORS

Two green indicators beside the focusing knob, 3 statuses:
 IR indicator ON: when the mode selector is at IRL or IRH position.
 IL indicator ON: when the mode selector is at ILL or ILH position.
 Both IR and IL indicator ON: when the mode selector is at ILH/IRL.

4.5 SWITCH INSTRUCTION

After choose the output laser via Mode Selector Switch, uncover the lens cover and put it on the magnetic steel. Both Switch Button and Remote Cable Switch can be used to activate the laser under the chosen mode.

4.5.1 SWITCH BUTTON

OPERATION:

- 1) Momentary On Mode: Single press the core of Switch Button and hold it, the laser will be activated and last until the Switch Button was released.
- 2) Continuous On Mode: Double press the Switch Button without holding, the laser

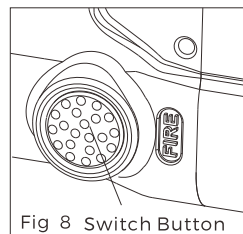


Fig 8 Switch Button

will be activated and last 5 minutes and then automatically turn off. The user also can press Switch Button once to turn off the unit manually.

4.5.2 REMOTE CABLE SWITCH INSTALLATION:

- 1) Uncover the socket cover.
- 2) Insert the plug of Remote Cable Switch into the socket after matching the interfaces of plug and socket.

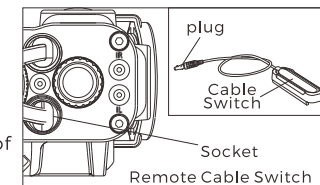


Fig 9

- 3) Screw the protective set of connection part.
- OPERATION: 1) Momentary On Mode: Single press button of Remote Cable Switch and hold it, the laser will be activated and last until the Switch Button was released.
 2) Continuous On Mode: Double press the button without holding, the laser will be activated and last 5 minutes and then automatically turn off. The user also can press Switch Button once to turn off the unit manually.

4.6 WINDAGE & ELEVATION ADJUSTMENT

The Visible laser, IR laser and IR illuminator are concentric hence they could be adjusted by same adjuster at the same time.

Total travel range is 100 MOA in both directions. Do not adjust the W&E out of the travel range.

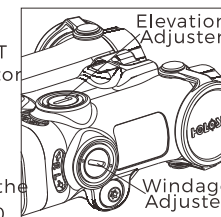


Fig 10

Adjuster	Position	Mark	Direction	Pointer Movement
Elevation Knobs	Top	U	CW	Up
		D	CCW	Down
Windage Knobs	Side	L	CW	Left
		R	CCW	Right

ADJUSTMENT: Use wrench or coin to rotate the adjuster as needed according to the instruction table above.

4.7 FOCUSING KNOB

The focusing knob for IR illuminator is located between the indicators and remote switch in Figure 11. The divergence of IR illuminator ranges from 95-210mrad.

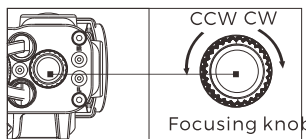


Fig 11

Zoom in: Rotate the knob in CW direction.

Zoom out: Rotate the knob in CCW direction.

5. MAINTAIN

The LE420-GR/RD LOW is rugged, compact laser device that is designed to operate in severe environments. The exterior housing is made of aircraft grade aluminum and the other components are made of chemically resistant materials that will not be harmed by chemicals normally encountered during military operation.

Operator maintenance is limited to the inspection and cleaning of the LE420 external surfaces, replacement of battery before each mission and removal of the battery after each mission.

6. WARRANTY

Holosun will furnish its standard form LIMITED WARRANTY in favor of its customers and the first end users of its products. The LE420-GR/RD LOW has a one year limited warranty on parts and workmanship from the date of purchase. The warranty is void if the serial number or the manufacturer's labels affixed to the product has been removed or if the product has been misused, modified, neglected or has been disassembled prior to return to manufacturer. To the maximum extent permitted by law, Holosun's election to repair or replace the device shall constitute the purchaser's sole remedy in the event of a defect.

7. NON-WARRANTY INFORMATION

Non-warranty repairs are subject to an evaluation fee. LE420-GR/RD LOW units that are not covered by the warranty will be tested and evaluated for failure. Customer permission and payment terms will be obtained prior to perform any repairs.

8. RETURN INSTRUCTIONS

- For service, repair or replacement email: warranty@holosun.com, call 909-594-2888
- Please provide the following information to assist technician to determine if the item is repairable:
 1. Serial Number of the defective item.
 2. Thorough description of the malfunction, defect or damage.
 3. An explanation as to how the malfunction, defect or damage occurred, if known.

LE420GR/RD LOW
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Holosun

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Customer Service

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