

T15 USER'S GUIDE

T15 | T15-C



KIT CONTENTS

T15 Thermal Imager	Quick Release Rail Mount	Allen wrenches: .050" and 1/8"
CR123 lithium battery (2)	1/4-20" rail mount fastener (2)	USB cable

UNIT SPECIFICATIONS

	T15-C	T15
Size	4.1" x 2.7" x 1.7" (105 x 70 x 44mm)	4.5" x 2.7" x 2.5" (114 x 79 x 70mm)
Weight w/o battery	225g	310g w/ mount
Zoom	3-8x Continuous optical zoom with auto focus adjustment	
Field-of-View	from 18.7° to 7°	
Minimum Focus Distance	2 meters	
Range Performance	Human Detection Range: 162m @ 3x – 436m @ 8x Human Recognition Range: 81m @ 3x - 218m @ 8x Human Identification Range: 40m @ 3x - 109m @ 8x	
Focus	Focus free	
Spectral Range	8-14 micron	
Power	2 CR123, 3V – 8+ hours of operation	
Resolution	160x120 pixels FLIR Lepton 3	
Display	1.5" OLED	
Operating Temperature	-10° to +45° C	
Frame Rate/Shutter	9Hz with Shutter	
Accessories	Optional 2x afocal adapter; Optional Clip-On adapter	

INSTALLING CR123 BATTERIES

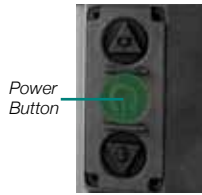
The T15 uses two 3 volt CR123 batteries. Quality photo lithium batteries are recommended for optimal unit performance.

1. Remove the threaded battery cap and install the batteries according to unit markings.
2. Replace the battery cap.



POWER ON T15

Remove the dust cover from the T15 lens. Press the power button for 1 second to power the T15 on. A splash screen will appear followed by the thermal display. Press the power button again for 1 second to power the T15 off. Replace the T15 lens dust cover when not in use.



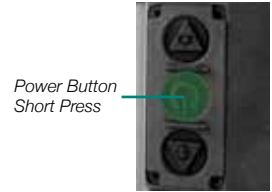
The display provides battery status

NON-UNIFORMITY CORRECTION (NUC)

The NUC calibration optimizes the T15 thermal sensor. Perform a NUC calibration as needed to maintain a uniform appearance on the display.

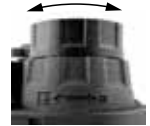
Quickly press the power button while the T15 is powered on. The calibration takes about a second.

Note: A light ring may appear in the center of the display when no thermal return is on screen. This is normal.



OPTICAL ZOOM CONTROL

The T15 has 3-8x optical zoom control. Turn the lens clockwise to reduce image zoom and counter-clockwise to increase image zoom.



COLOR MODE SELECTION

The T15 has 4 color modes. Quickly depress the mode button to cycle through the color modes until the desired mode is displayed.

MODE 1 Grayscale – white-hot

MODE 2 Grayscale – black-hot

MODE 3 Green only

MODE 4 Color

The T15 restarts in the last set mode when powered on.



TOGGLE DISPLAY RETICLE

Depress the mode button for 1.25 seconds to toggle the on-screen reticle on or off.



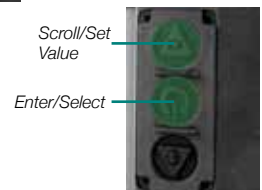
MENU MODE

Depress the mode button for 5 seconds to select T15 options, including: **Display** settings, **Reticle** adjustments, **Sleep** power settings, unit **Version**, and factory **Reset** options.



MENU NAVIGATION

Depressing the middle button enters sub-menus and menu option selections. Depressing the top button scrolls down menu options and changes menu option values.



DISPLAY MENU

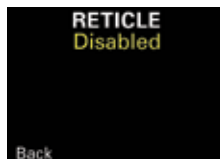
Display brightness (**Bright**) can be optimized for different conditions. Brightness can be adjusted between 5 settings, ranging from 20% (darkest) to 100% (brightest).

Sharp toggles the image sharpness filter On/Off. **Squelch** minimizes display noise when no thermal return is present.



RETICLE MENU

The T15 reticle can be enabled or disabled. There are six reticle types. The reticle can be sighted using horizontal (Hor) and vertical (Ver) offsets between +/-9 pixels.



Reticle disabled



Reticle enabled with adjustments

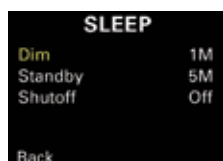
SLEEP MENU

The sleep menu offers battery saving options. Each sleep mode (*Dim*, *Standby*, *Shutoff*) can individually be set to 1, 5, or 10 minute timers.

Dim - Screen Dims; Off (never), 1, 5, 10 min..

Standby - System Standby; Off (never), 1, 5, 10 min.

Shutoff - Power Down; Off (never), 1, 5, 10 minutes



SLEEP OPTIONS

The T15 will exit Dim and Standby modes after a slight unit movement. The unit fully powers down if a unit shutoff activates. The deeper sleep mode will have higher priority if two or more sleep modes are set to the same timer. Timer order of priority is (highest to lowest):

Shutoff > Standby > Dim

VERSION/UPDATE SCREEN

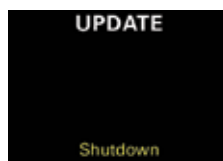
When selected from the main menu, the version screen provides T15 unit version information. Select Allow Update to begin a firmware update process. A MAC or PC with the updated firmware file is required.



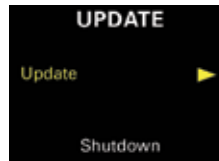
T15 UPDATE

Connect the T15 to a PC or MAC with the supplied USB cable while the T15 is on the UPDATE screen. NOTE: The only way to exit the UPDATE screen is to Shutdown the unit and power the unit back on.

While the T15 is connected to a PC/MAC in the update mode, the T15 will mount to the computer like an SD card as 'T15 Drive'. Download the new T15 firmware file and copy the file into the 'T15 Drive' directory.



After the update file is loaded into the above 'T15 Drive' directory, the T15 screen indicates an 'Update' option. Select 'Update' to begin. A 'Success' update status message appears when complete. Select Shutdown and power the T15 back on to finish the update.



RESET MENU

The T15 settings can be restored to factory defaults if desired. Select Reset All and T15 settings will be restored to factory defaults.



MOUNT OPTIONS

The T15 has a threaded ¼"-20 mounting base for using the T15 with hand grips, tripods and other standard mounts. Additionally, a Picatinny rail mount is supplied with the T15.



RAIL MOUNT INSTALLATION

Attach the quick release rail mount onto the T15 with the two supplied ¼"-20 fasteners and 1/8" Allen wrench. Tighten the fasteners until secure.



RAIL MOUNT ADJUSTMENT

The quick release mount can be adjusted for any rail.

If the mount does not firmly lock onto the rail or the unit wiggles on the rail after locked, an adjustment should be made.

Loosen the grub set screw on the bottom of the rail mount with the supplied .050 Allen wrench as shown.

After the grub screw is loose, use a flathead screwdriver to adjust rail preload. Adjust the screw clockwise to increase arm preload or counterclockwise to reduce arm preload.

When the mount attaches to the rail correctly, retighten the grub set screw back down until snug.



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