

T12 USER'S GUIDE

T12-V | T12-N | T12-W | T12-M



KIT CONTENTS

1. Thermal Imager
2. CR123 lithium battery
3. Hand grip mount
4. Allen wrench: .050" or 1/16" (T12-N/V)

UNIT SPECIFICATIONS

	T12-V	T12-N	T12-W	T12-M
Size	2" x 1.8" x 1.5" (50 x 45 x 39mm)			
Weight w/o battery	63g	50g	64g	50g
Field-of-View	8.33°	25°	12.5°	50°
Mount	1/4-20 tripod mount			
Optional Mount	Picatinny mount		Quick release mount	
Mount Size	1.2" x 1" x .4" (29 x 24 x 10mm)		1.5" x 2" x .7" (38 x 51 x 18mm)	
Mount Weight	9g		47g	
Power	CR123, 3V – 8+ hrs of operation			
Resolution	80 x 60 pixels FLIR Leptons			
Frame Rate	9Hz		30Hz	
Shutter	No		Yes	
Accessories	Handle, Picatinny mounts			

INSTALLING CR123 BATTERY

The T12 uses a 3 volt CR123 battery. A quality photo lithium battery is recommended for optimal unit performance.

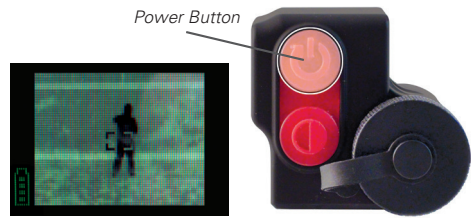
1. Remove the threaded battery cap and install the battery according to unit markings.
2. Replace the battery cap.



POWER BUTTON

Press the power button for 1 second to power the T12 on. A splash screen appears followed by the imaging display. Press the power button again for 1 second to power the T12 off.

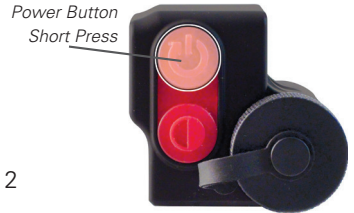
The display indicates battery status.



NON-UNIFORMITY CORRECTION (NUC)

The NUC calibration optimizes the T12 thermal sensor. Perform a NUC calibration as needed to maintain a uniform appearance on the display.

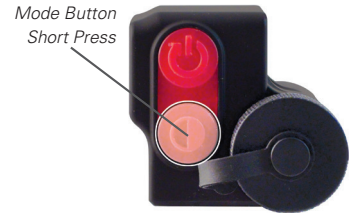
Point the T12 at a thermally uniform surface (i.e. ground or wall) and quickly press the power button while the T12 is powered on. The calibration takes about a second.



MODE SELECTION

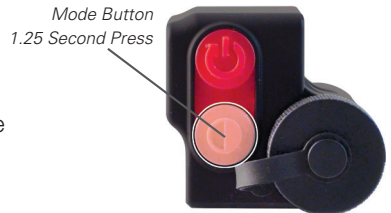
The T12 has 4 operating modes. Quickly depress the mode button to cycle through the modes until the desired mode is displayed. The T12 restarts in the last set mode when powered on

- MODE 1 Grayscale – white-hot
- MODE 2 Grayscale – black-hot
- MODE 3 Green only
- MODE 4 Color



TOGGLE DISPLAY RETICLE

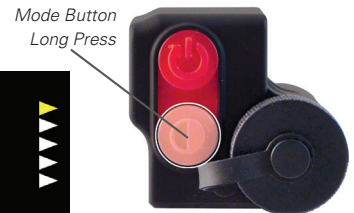
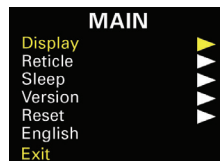
Depress the Mode button for 1.25 seconds to toggle the on-screen reticle on or off.



MENU MODE

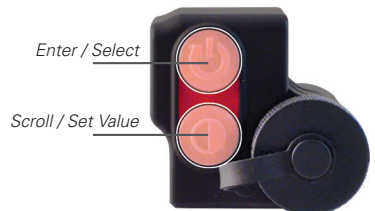
Depress the Mode button for 5 seconds to select T12 menu options, including:

- Display** settings, **Reticle** adjustments,
- Sleep** power save settings, unit
- Version**, and factory **Reset**, and
- Language** options.



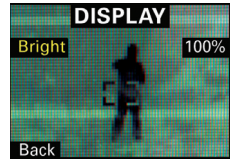
MENU NAVIGATION

Depressing the Top button enters submenus and menu option selections. Depressing the Bottom button scrolls down menu options and changes menu option values.



DISPLAY NAVIGATION

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

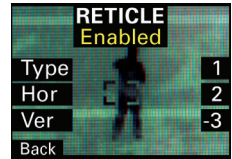


RETICLE MENU

The T12 reticle can be enabled or disabled. There are four reticle types. The reticle can be sighted using horizontal (Hor) and vertical (Ver) offsets between +/-9 pixels.



Reticle disabled



Reticle enabled with adjustments

Reticle Types



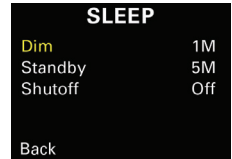
SLEEP MENU

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

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

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

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



SLEEP OPTIONS

The T12 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**

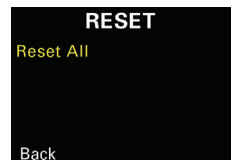
VERSION SCREEN

When selected from the Main menu, the version screen provides T12 unit version information. Note the version number and other numbers on screen when contacting TPL about the unit.



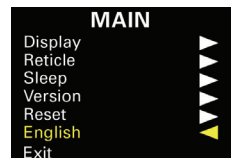
RESET MENU

The T12 settings can be restored to factory defaults if desired. Select Reset All and T12 settings will be restored to factory defaults.



LANGUAGE SELECTION

The T12 can display menu screens in these languages: English, French, German, Italian, and Japanese. Highlight and select the language option, and toggle language options until desired language is selected.



TRIPOD MOUNT

The T12 picatinny base mount can be removed exposing a 1/4-20" standard tripod mount. Remove the 4 base screws from base mount with supplied .050" Allen wrench to expose tripod mount.



QUICK MOUNT (T12-M/W only)

The T12-M includes a quick mount. Depress the interlock button and rotate the locking arm to lock or unlock the mount.

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



The mount can be adjusted for any Picatinny rail.

QUICK MOUNT ADJUSTMENT (T12-M/W only)

Loosen the grub screw on the bottom of the unit with the supplied .050 Allen wrench as shown. Use a flathead screwdriver to adjust preload. Adjust clockwise to increase arm preload or counterclockwise to reduce arm preload.

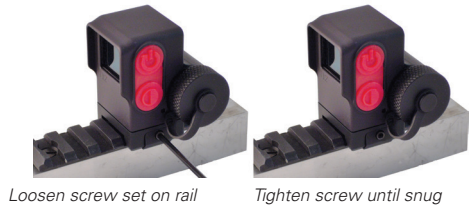
Adjust the preload until the T12-M mount is fitted snugly to the rail. Retighten the Allen head grub screw to complete adjustment.



STANDARD MOUNT

Loosen the T12 clamp screw with the supplied 1/16" Allen wrench. Attach the T12 to the Picatinny rail or supplied mount.

Tighten the screw until snug to secure the T12 to the rail.



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