

Thermal Imager T20x

User's Manual



KIT CONTENTS

- T20x Thermal Imager
- (1) CR2 lithium battery
- Lanyard

SPECIFICATIONS

Size (L x W x H)	2.8 x 1.8 x 1.5 in / 70 x 46 x 39 mm
Weight	4.7 oz / 133 g
Zoom	3-5.5
Field-of-View	from 17° to 9°
Focus Range	1 yrd/meter to infinity
Spectral Range	8-14 micron
Power Continuous Operation	CR2 3V, 4+ hours
Sensor Resolution	80 x 60 pixels FLIR Lepton 3
Display (diagonal)	1.3 in / 33 mm
Operating Temperature	15° to 115° F / -10° to +45° C
Frame Rate/Shutter	9Hz with Shutter
Environmental	IP66

QUICK START

Remove battery cap and install supplied CR2 battery. A quality lithium battery is recommended for optimal unit performance. Use of lower grade or rechargeable batteries will result in inaccurate indication of battery life. Remove the battery cap and install the battery with positive terminal facing in. Reinstall cap firmly.



POWER ON T20

Press the POWER button for 1 second to power the unit on. A splash screen will appear followed by the thermal display. Press the POWER button again for 1 second to power off.



NON-UNIFORMITY CORRECTION (NUC)

The T20x periodically performs automatic NUC calibrations to optimize the sensor. A manual NUC calibration can be conducted as desired.

Quickly press the power button while the T20x is powered on. The calibration takes about a second.

OPTICAL ZOOM CONTROL

Adjust the T20x 3-5.5x optical zoom control by turning the lens clockwise to reduce image zoom and counter-clockwise to increase image zoom. The zoom level is displayed on screen.



COLOR MODE SELECTION

The T20x has 4 color modes. Quickly press the mode button to cycle through the color modes until the desired mode is displayed

MODE 1: Grayscale - white-hot MODE 3: Green only

MODE 2: Grayscale - black-hot MODE 4: Color

The T20x restarts in the last set mode when powered on.



Mode Button Short Press

TOGGLE DISPLAY RETICLE

Press the mode button for 2 seconds to toggle the on-screen reticle on or off.

*Mode Button
2 sec Press*

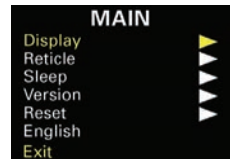


MENU MODE

Press the mode button for 5 seconds to select T20x options, including: Display settings, Reticle adjustments, Sleep power settings, unit Version, and factory Reset and Language options.



Mode Button Long Press



MENU NAVIGATION

Pressing the power button enters sub-menus and menu option selections. Pressing the mode button scrolls down menu options and changes menu option values.

*Enter/
Select*

*Scroll/
Set Value*



DISPLAY MENU

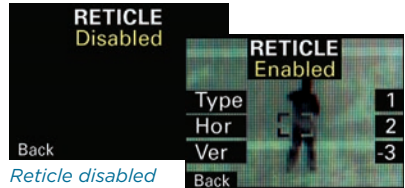
Display brightness (Bright) can be optimized for different conditions. Brightness can be adjusted between 5 settings, ranging from 20% (darkest) to 100% (brightest).

Sharp toggles the image sharpness filter On/Off.



RETICLE MENU

The T20x reticle can be enabled or disabled. There are six reticle types. The reticle can be sighted using horizontal (Hor) and vertical (Ver) offsets between +/-20 pixels.



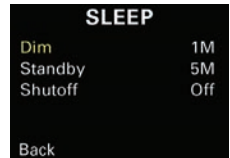
Reticle disabled

Reticle enabled with adjustments

SLEEP MENU

The Sleep menu offers battery saving options. Each sleep mode (Dim, Standby, Shutoff) can individually be set to Off (never), 1, 5, or 10 minute timers.

“Dim” (Screen Dims) / “Standby” (Screen Off) / “Shutoff” (Power Down)



SLEEP OPTIONS

The T20x 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

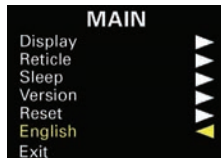
RESET MENU

The T20x settings can be restored to factory defaults. Select Reset All and T20x settings will be restored to factory defaults.



LANGUAGE SELECTION

The T20x 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.



MOUNT OPTIONS

The T20x does not include a mount. The T20x has a 30mm main tube to be used with industry standard 30mm mounts.

To register your product, please visit the “Product Registration” page at SectorOptics.com.



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10505 Roselle Street, #100 • San Diego, CA 92121 • 1.858.755.4549 • SectorOptics.com