UTC®x
Universal thermal clip-on

The UTC®x sight is a high-performance universal thermal clip-on to existing weapon sights, currently fielded by the U.S. military and supporting long-range sniper and surveillance missions.

The UTC®x sight compliments existing unity day sight systems, as well as day sights in excess of 10x magnification when used as a pass-through sighting device.

**Features**

- Clips-On in front of powered (magnifying) scopes, red dot sights, and holographic sights
- 60 Hz high-performance weapons-grade focal planes
- Small size and light weight
- Installs and removes without the need for boresight adjustment
- Superior performance in all battlefield conditions
- Uses 1 or 2 commercially available CR 123 batteries
- Battery life exceeds 5 hours
- RS-170 video output

**Benefits**

- Greatly enhances vision at night or in dust or smoke conditions
- Compliments existing day sights
- Superior performance in all battlefield conditions

www.boesystems.com
### UTC®x product specifications:

<table>
<thead>
<tr>
<th>Weight and dimensions</th>
<th>UTC®x sight</th>
<th>Color: Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (without batteries)</td>
<td>26 oz (0.74 kg)</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>6.8 in (173 mm)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>3.3 in (84 mm)</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>3.3 in (84 mm)</td>
<td></td>
</tr>
</tbody>
</table>

**Power**

- **Power source**: (1) or (2) CR 123 (3V system)
- **Power up**: 3 seconds
- **Battery operating life @25°C**: 2.25 hr (1 battery) / 5.5 hr (2 batteries)

**Environment**

- **Operating temp**: -25°F (-32°C) to 122°F (50 °C)
- **Storage temp**: -40°F (-40°C) to 160°F (71 °C)
- **Immersion**: Tested at 66 ft for 2 hours
- **Climatic zones**: Hot, basic

**Imaging characteristics**

- **Optical focus**: Manual
- **Diopter adjust**: None
- **Optical magnification**: 1X
- **Digital magnification**: 0.5X and 2X
- **Optical co-use**: Unity to 10X+
- **Field of view**: 7° diagonal (6° horizontal x 4° vertical)
- **Range (NVTherm Model)**: 80% positive (60 Hz), 0.75m² size target
- **Detect**: 2650 m
- **IR camera**
  - **Sensor**: Uncooled microbolometer
  - **Wavelength**: 8-12 µm
  - **Pixel pitch**: 17 µm
  - **Pixel format**: 640 x 480 array
  - **Refresh rate**: 30 Hz / 60 Hz
  - **NEdT**: < 50 mK @F/1
- **Display**
  - **Color**: Monochrome
  - **Size**: 640 x 480
  - **Eye relief distance**: 50 mm
  - **Diopter adjustment**: None set to 800 meters

### Compass

- **Type**: Digital magnetic compass
- **Capture**: Yes

### Image storage

- **Capability**: 100 snapshots
- **Image format**: 8-bit uncompressed raw binary file

### Weapon Mount/Accuracy Information

- **Weapon mount format**: M1913 Milspec
- **Weapon mount**: LaRue Modified LT648
- **Aim point**: 1 MOA
- **Eye piece centerline height (from top of rail)**: 1.310 in

### Part number Description

- **8500877-1**: Universal thermal clip-on, UTC®x, 17 µm detector, with standard accessory kit and quick disconnect mount

### Standard accessory kit for UTC®x includes

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999-104421</td>
<td>Soft carry bag, universal camo (1)</td>
</tr>
<tr>
<td>9102-4101</td>
<td>Cable, 7-pin LEMO to 75-OHM BNC (1)</td>
</tr>
<tr>
<td>9102-4100</td>
<td>Cable, 7-pin LEMO to USB type A (1)</td>
</tr>
<tr>
<td>EL123AP</td>
<td>Battery, lithium, 3V (2)</td>
</tr>
<tr>
<td>BA80E</td>
<td>BNC coupler, F-F adapter</td>
</tr>
<tr>
<td>19022-5000</td>
<td>Install software</td>
</tr>
<tr>
<td>19024-7000</td>
<td>UTC-X operator and maintenance manual</td>
</tr>
<tr>
<td>19024-7004</td>
<td>Quick start guide for UTC®x, 17µm</td>
</tr>
<tr>
<td>LT729-T15</td>
<td>LaRue wrench kit</td>
</tr>
</tbody>
</table>

### Optional accessories

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19015-0008-00</td>
<td>Remote keypad for all OASYS systems, includes LEMO-LEMO cable</td>
</tr>
<tr>
<td>19015-4007</td>
<td>Replacement LEMO-LEMO cable for remote keypad, all OASYS systems</td>
</tr>
<tr>
<td>19023-1007</td>
<td>Dust cap, LEMO</td>
</tr>
<tr>
<td>19024-1022</td>
<td>Replacement objective lens cover (comes installed on UTC®x)</td>
</tr>
</tbody>
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