



TABLE OF CONTENTS

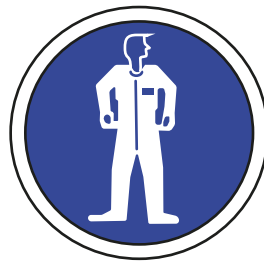
1. Preliminary remarks	3
2. Safety instructions	3
3. Composition of the kit	4
4. Application	4
5. How the SCORP'EYE works	5
6. Positioning the SCORP'EYE	7
7. Using the SCORP'EYE	9
8. Setting the viewing	10
9. Power / Battery	11
10. Warranty	12

1. PRELIMINARY REMARKS



The SCORP'EYE detector should only be used by people who have read this manual.

2. SAFETY INSTRUCTIONS



- Wear the appropriate safety equipment : helmet, goggles, safety shoes, protective clothing and gloves, useful for protection in the area to secure.
- Only work with parts provided by the original manufacturer.
- Before and after each use, check the SCORP'EYE accessories are in perfect condition and that they meet the requirements for use.

To facilitate the selection of a reference point on a structure, the SCORP'EYE is equipped with a Class II laser.



3. COMPOSITION OF THE KIT

Upon reception of your equipment, please check the presence of the following components:

1. Shock and waterproof,
2. Tripod,
3. Telescopic eye fitted to the device,
4. SCORP'EYE,
5. Charger SCORP'EYE.

Optional :

- Remote alarm device,
- External battery back up.



4. APPLICATION

The SCORP'EYE is a portable alarm system for rescue teams during search and rescue operations for victims after a disaster. This type of action often happens after an earthquake as it can be followed by aftershocks endangering rescue teams and people, because of collapsing parts. The SCORP'EYE by its precise monitoring will send a warning with an audible and visual alarm around in order to identify dangerous areas.


5. HOW THE SCORP'EYE WORKS

Place the SCORP'EYE at a strategic point, the target can be located 98 feet (30 m) from the SCORP'EYE. By pressing 1 out of the 6 motion keys, the SCORP'EYE records the measured distance between it and the surface of the target object.


After 7 seconds of delay, it constantly monitors and compares with the measured recorded reference.


If this distance is different more or less than the value above the selected amplitude (from 0,19" (5mm) to 3,9"(100 mm)) the alarm goes off, informing it that movement has been detected.

The SCORP'EYE is active 7 seconds after pressing the button and for several hours. It only needs a slight deviation from the value originally recorded detected to trigger warning signals.

 The SCORP'EYE is expected not to be disturbed by rapid passages in front of its beam such as birds, leaves etc ... In this case the alarm will remain inactive.

 Please avoid any passage (operator, vehicle) between the SCORP'EYE and the target.

 Beware of dense smoke, dust clouds, rain or intense sun glare, which can cause false alarms, as well as gusts of wind that can move the SCORP'EYE.

 • Avoid dark targets (which can absorb the laser light),
• too bright (which may reflect it randomly),
• inconsistent (foliage, ponds, ...).

Example :

The row of LEDs indicates the slightest movement, smaller than the set amplitude, further away or towards the front. Below is the original measure 110,43" (2805 mm) moves to 110,63" (2810 mm) (with LEDs lit to the right for movement towards the back) and to 110,27" (2801 mm) (with LEDs left for movement towards the front).



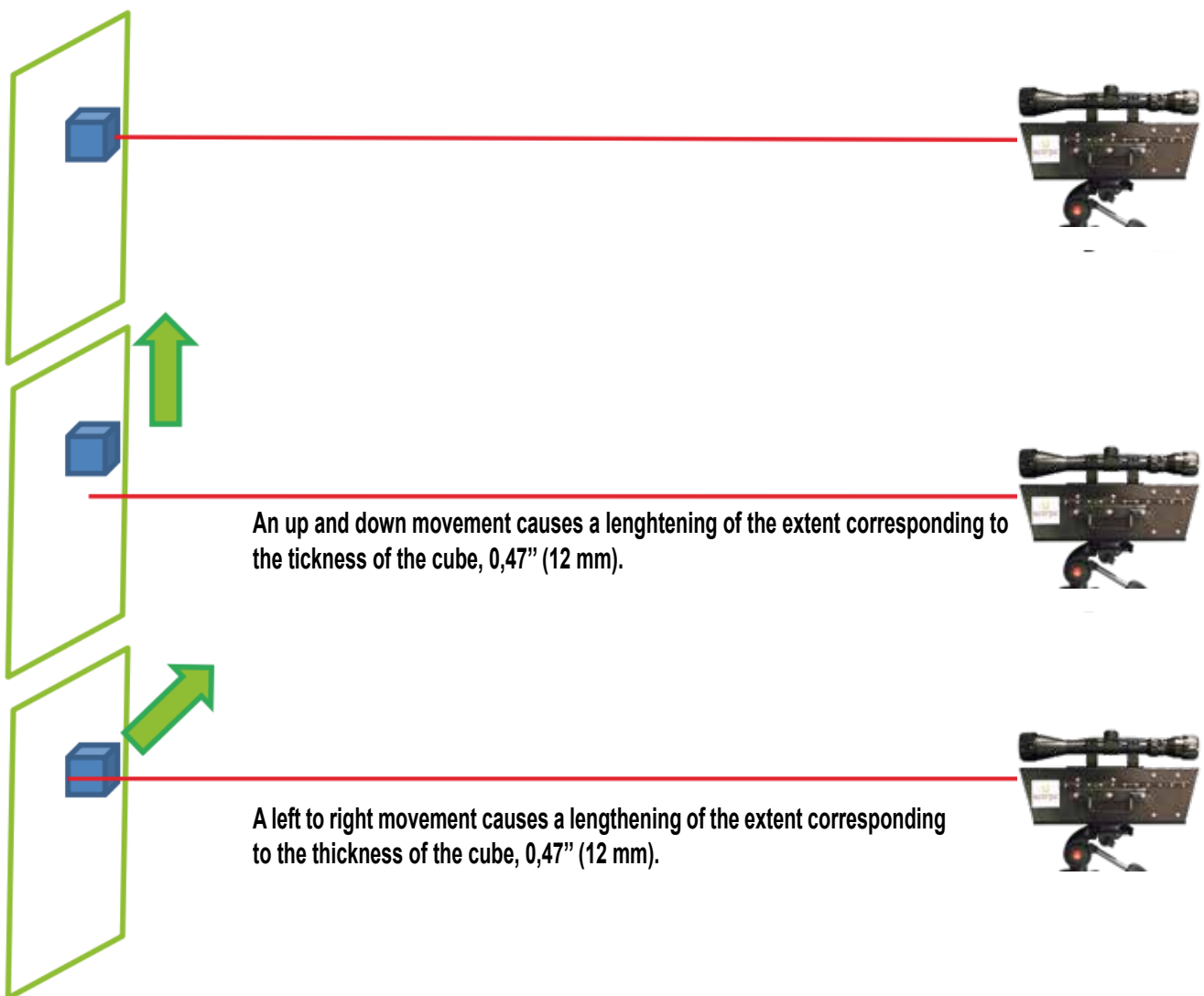
SCORP'E

Tip :

The SCORP'EYE can therefore only detect back and front movement in relation to the target. Lateral movements (up-down, left-right in respect to the operator) can only be detected by a 2nd ou 3rd positioned device(s) to appropriate angles.

A solution may, however consist - if access to the target is possible - to fix a target cube (Polystyrene) of 0,47" (12 mm) side ensuring that the laser beam is positioned on the cube.

Therefore, whatever the movement (right, left, up, down, approach or distance) the measurement will vary from at least 0,47" (12 mm) longer than the amplitude that will have to be set to 0,19" (5mm) or 3,9"(100 mm).



6. POSITIONNING THE SCORP'EYE

The SCORP'EYE can be placed on a flat, stable surface or mounted on a tripod.

Setting up the tripod:

- Screw the removable handle adjustment, perpendicular to the non moveable one.



- Unlock the blockers to adjust the desired height.



The tripod height is between 17,72" (45 cm) and 64,57" (164 cm)



Ensure the accessibility to the SCORP'EYE when adjusting the height.

Fitting the SCORP'EYE on the tripod :

- Position the SCORP'EYE on the tripod by opening the quick release lever and then close it completely.

Test if all is secure



- The handle lying in the back allows rotation on the horizontal and vertical axes,
- The side handle manages the horizontality of the control panel,
- The SCORP'EYE can conduct surveillance on vertical targets (ceiling, roof).

- The supplied strap is used to attach a ballast for stabilization in case of strong winds.



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7. USING THE SCORP'EYE

- Push the on / off switch



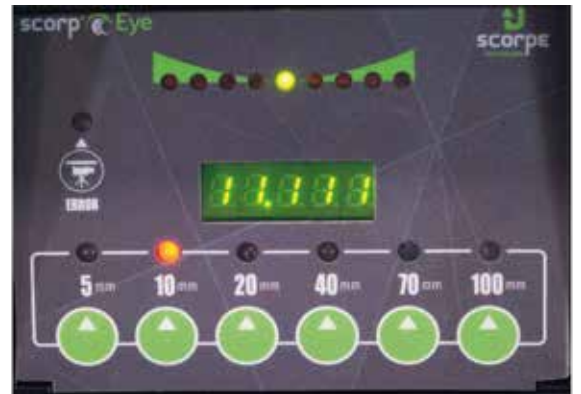
When setting the SCORP'EYE, an audible signal 2 x 110 Db will sound for one second.

- When the target is determined by laser and telescope, selecting the amplitude which appears to be the most suitable for the selected object.

After a delay of 7 seconds until the measurement stabilizes, the distance between the SCORP'EYE and the target is displayed alternately with the selected amplitude level.



Any key pushed in resets the SCORP'EYE point controller.



The target error indicator and side visual alarms indicate an unsuitable target for the measure (too close, too distant, too bright, too moving, etc.).

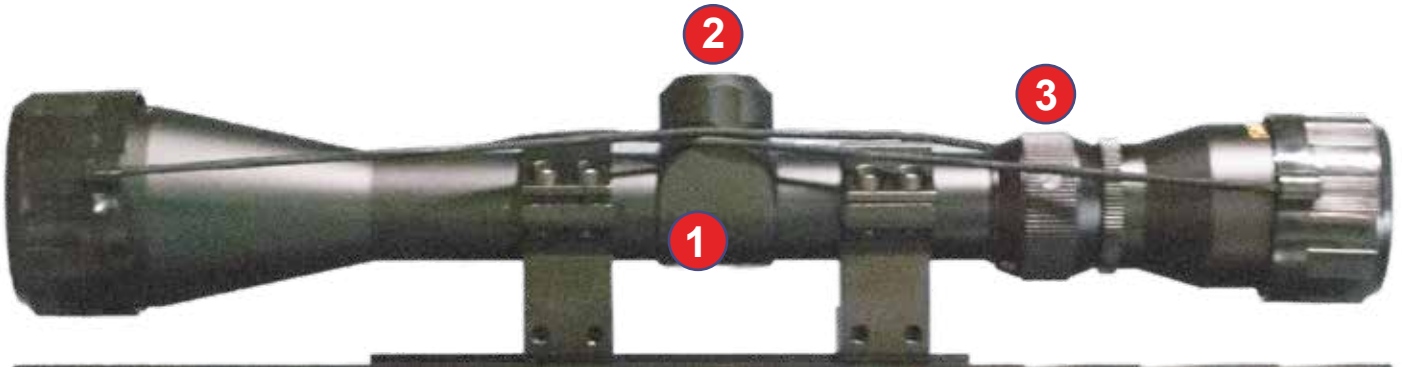
An extent of less than 1 is typically a remote target of more than 32,8 yards (30 m).



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8. SETTING THE VIEWING

The eye :




1. Parallax setting high / low

2. Parallax setting right / left


3. Zoom : x3 to x12




-  ● The laser emitted by the SCORP'EYE points out in red the precise object whose movement will give the alert,
- The axis of the laser coincides with that of the eye to 13,12 yards (12 m) (set as default). Above and below, the red dot is more or less distant from the center of the cross.

Setting:

- Adjust the magnification using dial 3 in order to distinguish the red dot of the laser marker on the target object.

-  Depending on the distance, the red dot of the laser is in one of the 4 triangles viewfinder. Sunlight or long range (32,8 yards (30 m) maximum) allows the telescope to identify more precisely the target.

-  **At outside facilities, in daylight, the laser marker is hardly noticeable if the magnification of the telescope is not used.**

9. POWER/BATTERY

Technical data:

	Lithium-Ion Batterie	
	Cooldown integrated batteries	3 hours
	Battery life	23 hours
Charging time of the backup battery		6 hours
	Battery life	30 hours



Never use any charger other than the one supplied with the SCORP'EYE.



The charger can be permanently connected to the charging socket. No memory effect on Lithium-Ion batteries.



When the internal battery is discharged to 95% visual alarms flash.

Auxiliary battery (optional).

A backup battery, optional, in a sealed case and shock-proof, can be recharged with the same charger.



This battery can be suspended to the tripod or placed on the ground.



10. WARRANTY

The SCORP'EYE is covered by a total warranty of one year (1).
(Not including transport and customs costs, where applicable).

If you find a problem please contact:

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