



**ELECTRO OPTICAL
TEST SOLUTIONS**

TRANSPORTABLE COLLIMATOR FOR THE TEST OF LIGHT ELECTRO-OPTICAL SYSTEMS
MAINTENANCE OF DAY/NIGHT WEAPON SIGHTS

OPAL IN



OPALIN is a compact multispectral portable target projector dedicated to the test and the maintenance of military light EO devices such as thermal & SWIR imagers, combined rifle scopes and day goggles and missile seekers.

It has been designed to be robust, light and very easy to use, be it in a lab or on the field at the workshop. Its single-block structure allows a very fast setup.

OPALIN is based on a compact collimator for field application and includes up to two integrated sources depending on the configuration: an infrared reference source (blackbody) and a visible source based on LEDs, as well as specific targets and filters.

With the addition of the dedicated software INFRATEST Camera Pack, it becomes a turnkey solution for testing electro-optical equipments.

> AVAILABLE TESTS

	OPALIN IR	OPALIN VIZIR
Noise Tests (Temporal/ Fixed Pattern/ 3D)	● ¹	● ¹
SITF	● ¹	● ¹
NETD	● ¹	● ¹
Resolution with 4 bar target	●	●
MRTD and DRI	● ¹	● ¹
Spatial resolution with USAF 1951 target		●
LSF (IR)	● ¹	● ¹
Boresighting (IR vs. Visible)		●

¹ Through analysis of video output channel of the UUT by **Infratest Camera Pack**

> OPTICAL SPECIFICATIONS

Clear aperture	100 mm
Field of view	> 2.2 degrees
Optical quality	Limited by diffraction
Target insertion	Interchangeable, manual insertion, no tool required
Target patterns	Hole for alignment, 4 bar for IR resolution, USAF 1951 for visible resolution
Sources	Integrated blackbody and visible source (OPALIN_VIZIR)

> INTEGRATED BLACKBODY (OPALIN_IR AND OPALIN_VIZIR)

Operation mode	Absolute and Differential with respect to target temperature
Absolute temperature range	+15°C to +50°C
Differential temperature range	-6°C to +30°C
Stability	1 mK
Control interface	Through coloured touch screen and Ethernet link , compatible with Infratest software

> INTEGRATED DAYLIGHT SOURCE (OPALIN_VIZIR)

Colour Temperature	Greater than 5000K
On/Off	Yes
Control interface	Trough Coloured touch screen and Ethernet link

> GENERAL SPECIFICATIONS

Dimensions (DxWxH)	746 mm x 188 mm x 365 mm (including handle)
Weight	about 10kg (without transport case)
Transport handle	Yes
Transport case	Yes
Aperture cover	Integrated
Main supply	90-260 VAC 50/60 Hz 50W approx.
Operating Temperature range	+15°C to +35°C



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