

Dark field allows to light objects with a little angle, standing out the surface faults. So that, in cracked or raised surfaces, the trajectory of the light produces bright areas.

Our system covers an area up to 35mm working in a distance between 8mm and 20 mm.

The most typical applications for this lighting are those to inspect metallic objects with small defects or fissures.



LIGHTING TECHNIQUE

Lighting mode: Darkfield
 Light source: 60 LEDs high intensity
 Colour (nm): See table 1
 LED life: 100.000 hours

MECHANICAL

LxWxH: See external plane
 Mounting: 8 thru hole for M5
 Housing material: Black anodized aluminium
 Weight: 380 grs.

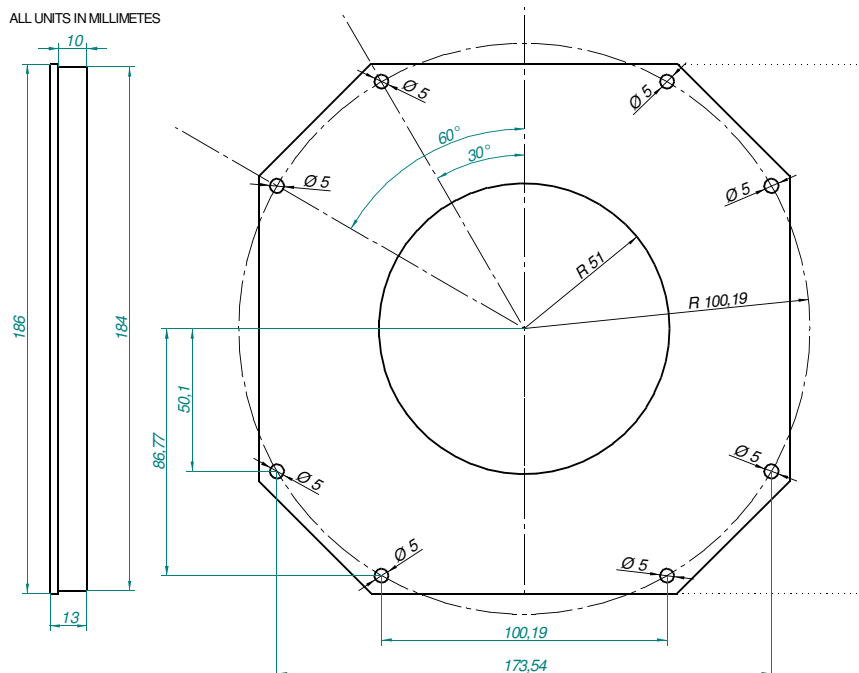
ELECTRICAL

Max. power supply: 24VDC (Continuous models)
 Max. consumption: 300mA
 Wire include: 1.8m
 Wire terminal: Brown -> 24VDC
 Blue -> 0V (GND)

ENVIRONMENTAL

Max. Operating Humidity: 95% non-condensing
 Operating temp: 0..40°C
 Storage temp: 0..60°C

EXTERNAL PLANE



MODELS

Table 1.

Light colour	Wavelength	Type	Reference
Red	660nm	Continuous	IL007BA
Red	660nm	Strobe	IL007BS
Near infrared	880nm	Continuous	IL007BN
Near infrared	880nm	Strobe	IL007BM
Infrared	940nm	Continuous	IL007BI
Infrared	940nm	Strobe	IL007BJ
White	-----	Continuous	IL007BB
White	-----	Strobe	IL007BC
UV	400nm	Continuous	IL007BU
UV	400nm	Strobe	IL007BW
Others	-----	????	Consult

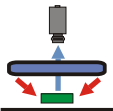
COMPLEMENTS

Table 2.

Complement	Type	Reference
Strobe controller with 3 outputs	Strobe	IL004BB

LIGHTING MODES

DARK FIELD LIGHT



Direct light of high intensity that falls on the object with a very little angle as regards the surface where it lies. In that way cracked or raised surfaces interfere on the trajectory of the light producing bright areas. The most typical applications for this technique are those to verify engravings, (laser, die), defects on the surface...