

# MICROSCAN®

## NERLITE® DF-200-1 Dark Field (Strobed)

**Part Number:** NER-010603301

**Product Description:** The DF-200-1 provides low-angle strobed illumination to the region of interest. The unit uses a single tier of LEDs mounted 90° to the optical axis. The light enhances the contrast of surface features such as laser, embossed or engraved marks or surface defects. The light is particularly suited for applications such as BGA ball placement, laser-etched symbologies and surfaces with geometric contours.

**illumination:**

**Lighting Technique:** Dark-field, diffuse  
**Source Type:** Red LED  
**Spectrum:** 636 nm  
**Expected Life:** 60,000 hours  
**Light Delivery:** 1 tier, 90 deg.  
**Light Aperture:** 203.2 mm (8 in.)  
**Suggested Field Of View:** 100 mm (3.93 in.)  
**Suggested Stand-Off:** 6.35 mm (0.25 in.)

**Mechanical:**

**L x W x H:** 254.0 mm x 254.0 mm x 14.2 mm  
 (10.0 in. x 10.0 in. x 0.56 in.)  
**Mounting:** (4) 8-32 and (4) M4 on top of unit  
**Housing Material:** Black Epoxy Paint over Aluminum  
**Weight:** 1.25 lbs.

**Environmental:**

**Max. Operating Humidity:** 95% non-condensing  
**Operating Temp.:** 40°C (104°F)  
**Storage Temp.:** 50°C (122°F)

**Electrical:**

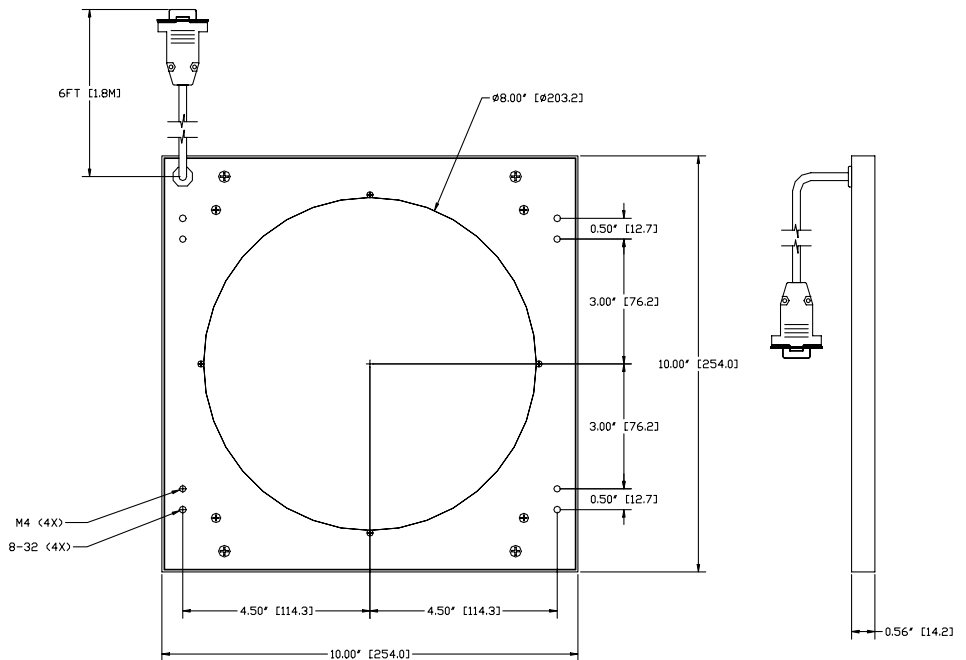
**Input Voltage:** 24VDC  
**Input Current:** 4A pk.  
**Cable Length:** 1.8 M (6 ft.)  
**Connector:** 9 pin D-sub male  
**CE Conformity:** Yes

**Cable Pinout** (9-pin D-subminiature, Male)

Pin #	Signal	Pin #	Signal
1	GND	6	n/a
2	n/a	7	n/a
3	n/a	8	n/a
4	+24VDC	9	n/a
5	n/a		

**Accessories:**

Part Number	Description
NER-010901900	SCM, Strobe Control Module
NER-010501402	CPS-24, 24VDC, US cord
NER-010501401	CPS-24, 24VDC, EU cord
NER-030006900	Y cable, 9 pin D-sub, strobe
NER-030007006	Extension Cable, Strobe, 1.8 M (6 ft)
NER-030007010	Extension Cable, Strobe, 3.0 M (10 ft)



NERLITE DF-200-603301 010109