

NERLITE® DF-200-1 Dark Field (Continuous)

Part Number: NER-010603300

Product Description: The DF-200-1 provides low-angle continuous 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.)

Electrical:

Input Voltage: 12VDC
Input Current: 400 mA
Cable Length: 1.8 M (6 ft.)
Connector: 9 pin D-sub male
CE Conformity: Yes

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)

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

Pin #	Signal	Pin #	Signal
1	n/a	6	n/a
2	n/a	7	n/a
3	GND	8	n/a
4	+12VDC	9	n/a
5	n/a		

Accessories:

Part Number	Description
NER-030003702	Extension Cable, Continuous, 1.8 M (6 ft.)
NER-030003703	Extension Cable, Continuous, 3.0 M (10 ft.)
NER-010500301	CPS-12, 12VDC, US Cord
NER-010500303	CPS-12, 12VDC, EU Cord
NER-010503500	VPS-II, 2 Ch. Variable PS, US Cord
NER-010503501	VPS-II, 2 Ch. Variable PS, EU Cord

