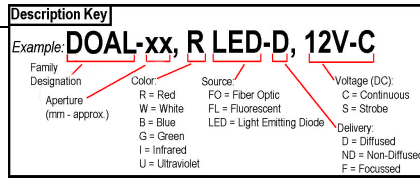


**DOAL®-100-LED Series** provides diffuse illumination in the same optical path as the camera. The DOAL is designed for applications that have flat specular surfaces requiring uniform lighting. With the DOAL, light rays reflect off the beam splitter directly on to the object at nearly 90°. This lighting technique helps bring out surface textures, elevation changes and translucent features.



MODEL #	DESCRIPTION
010-200600	DOAL®-100, R LED-D, 12V-C
010-200601	DOAL®-100, R LED-D, 24V-S
010-200602	DOAL®-100, R LED-D, 24V-C w/"Flying Leads"
010-206400	DOAL®-100, G LED-D, 12V-C, 0.9 M (3 ft.) cable
010-204601	DOAL®-100, W LED-D, 12V-C
010-204600	DOAL®-100, W LED-D, 24V-S, Y cable
010-207600	DOAL®-100, B LED-D, 12V-C
010-200603	DOAL®-100, I LED-D, 24V-C w/"Flying Leads"
010-200604	DOAL®-100, I LED-D, 24V-C w/DB9



**ILLUMINATION & ELECTRICAL:**

**Lighting Technique:** Diffuse On-Axis  
**Light Aperture:** 100 mm x 100 mm (4 in. x 4 in.)  
**Field Of View x Stand-Off<sup>1</sup>:** 50 mm (2.0 in.) x 25 mm (1.0 in.)  
**Light Characteristics:**

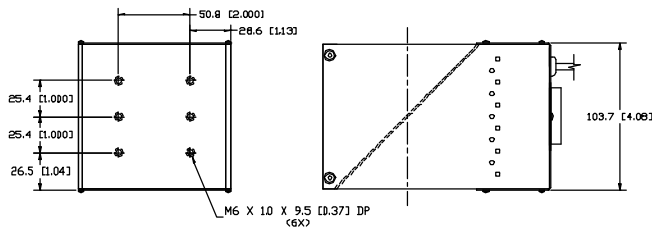
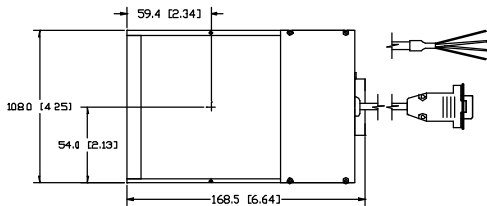
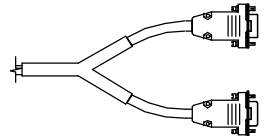
Source	Color (nm)	Exp. Life	Voltage/Current (max.)		
			12V-C	24V-C	24V-S
LED	Red (636)	60k hrs.	2.2 A	680 mA	13.0 A pk.
LED	White - 6500 Kelvin	10k hrs.	1.8 A	n/a <sup>2</sup>	17.2 A pk.
LED	Blue (470)	10k hrs.	1.8 A	n/a <sup>2</sup>	n/a <sup>2</sup>
LED	Green (533)	10k hrs.	1.9 A	n/a <sup>2</sup>	n/a <sup>2</sup>
LED	Infrared (880)	50k hrs.	n/a <sup>2</sup>	520 mA	n/a <sup>2</sup>

<sup>1</sup>Suggested

<sup>2</sup>No model available in stated voltage

**CE Conformity:**

Yes



**CABLES/CONNECTORS:**

	Connector	Length	Pin#	1	2	3	4	5	6	7	8	9
<b>12V-C Models</b>	9 pin D-sub Male	0.5 M (18 in.) <sup>1</sup>		+12VDC (Fan)	GND (Fan)	GND	+12VDC	n/a	n/a	n/a	n/a	n/a
<b>24V-S Models</b>	9 pin D-sub Male <sup>2</sup>	1.8 M (6 ft.) <sup>2</sup>		V-	n/a	n/a	+24VDC	n/a	n/a	n/a	n/a	n/a
<b>24V-C Models<sup>3</sup></b>	9 pin D-sub Male <sup>3</sup>	2.0 M (6.6 ft.) <sup>3</sup>		+24VDC (Fan)	GND (Fan)	n/a	n/a	n/a	+24VDC	n/a	GND	n/a

<sup>1</sup>Note: 0.9 M (3 ft.) cable on model number 010-206400.

<sup>2</sup>Note: Y cable w/2 9 pin D-sub Male connectors on model number 010-204600. Cable length from light housing to Y junction = 1.5 M (5 ft.); from Y junction to 9 pin D-sub = 0.3 M (1 ft.).

<sup>3</sup>Note: 24V-C Models w/"Flying Leads" have a 4.5 M (15 ft.) cable with four (4) tinned leads and no connector; leads are labeled GND, V+ (+24VDC), FAN GND and FAN V+ (+24VDC).

**MECHANICAL:**

**L x W x H (mm/in.):**

168.5 mm x 108.0 mm x 103.7 mm  
 (6.64 in. x 4.25 in. x 4.08 in.)  
 (6) M6  
 Black Anodized Aluminum  
 700 grams (1.9 lbs.)

**Mounting:**

**Housing Material:**

**Weight:**

**ENVIRONMENTAL:**

**Max. Operating Humidity**

95% non-condensing

**Operating Temp.**

40° C (104° F)

**Storage Temp.**

50° C (122° F)

**ACCESSORIES:**

Part #	Description	Models Used On
010-901900	SCM-2 Channel Strobe Control	24V-S
010-501402	CPS-24, 24VDC, US cord	24V-S <sup>1</sup>
010-501401	CPS-24, 24VDC, EU cord	24V-S <sup>1</sup>
010-502601	CPS-24T, 24VDC US w/9-pin D-sub	24V-C <sup>1,2</sup>
010-502602	CPS-24T, 24VDC EU w/9-pin D-sub	24V-C <sup>1,2</sup>
010-500301	CPS-12 3.5A, 12VDC, US Cord	12V-C
010-500303	CPS-12 3.5A, 12VDC, EU Cord	12V-C
010-502700	ICM-1, M/D Intensity Cntrl, 12V-C	12V-C
010-502701	ICM-1, M/D Intensity Cntrl, 24V-C	24V-C <sup>2</sup>
010-503500	VPS-II, 2 Ch. Variable PS, US Cord	12V-C
010-503501	VPS-II, 2 Ch. Variable PS, EU Cord	12V-C
030-003702	Ext. Cable, Cont., 1.8 M (6 ft.)	12V-C & 24V-C <sup>2</sup>
030-003703	Ext. Cable, Cont., 3.0 M (10 ft.)	12V-C & 24V-C <sup>2</sup>
030-003601	Y cable, 2 Lights, 9 pin D-sub Cont.	12V-C & 24V-C <sup>2</sup>
030-007006 <sup>3</sup>	Ext. Cable, Strobe, 1.8 M (6 ft.)	24V-S
030-007010 <sup>3</sup>	Ext. Cable, Strobe, 3.0 M (10 ft.)	24V-S

<sup>1</sup>010-50140x used only with 010-901900;

010-50260x used with 24V-C lights with DB-9 connectors

<sup>2</sup>24V-C accessories are not available for "Flying Leads" configurations

<sup>3</sup>When used w/model # 010-204600, two extension cables are required



Products are protected under US Patent #'s:  
 5,461,417; 5,187,611; 5,539,485; 5,301,402;  
 5,604,550; 5,684,530; 5,713,661

**All RVSI/NER Products come with an Industry-Leading 2-Year Warranty**