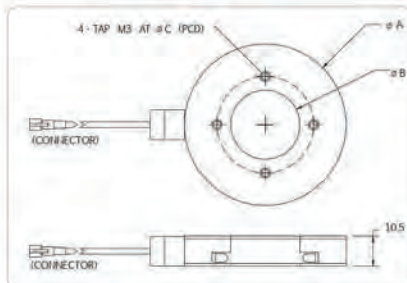
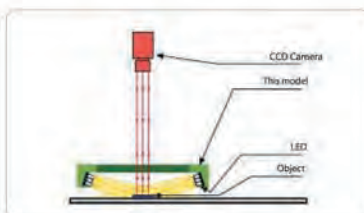


2019 Direct Illumination

LLA SERIES 90° - Direct, Low Angle, Ring Illumination

LED arrays are arranged in 90° provides side and low angle of illumination.
LLA 90° series are available in 1 row to suit different brightness requirements.

Applications: Edge Detection, Scratch on Metal or Glossy Surface



Technical Specification:

- Color Red, Green, Blue and White
- 24V DC Input Power
- Continuous and Strobe Applications
- Compact Size
- Lighting Cable 500mm

Customize Lighting:

- Customize Sizes, Mounting Requirements
- Color and Voltage Available
- Consult Technical Sales for More Information

Model	Dimensions (MM)			Color	Voltage / Watt	Current	Weight (g)
	ØA	ØB	ØC				
LLA-90-050-1-X	56	24	33.5	● ● ● ●	24V / 1.08W	45mA	
LLA-90-080-1-X	80	50	56.5	● ● ● ●	24V / 1.44W	60mA	50
LLA-90-100-1-X	101	71	77.5	● ● ● ●	24V / 1.80W	75mA	70
LLA-90-150-1-X	151	121	127.5	● ● ● ●	24V / 2.52W	105mA	100
LLA-90-180-1-X	181	151	157.5	● ● ● ●	24V / 2.52W	105mA	120
LLA-90-210-1-X	211	181	187	● ● ● ●	24V / 3.24W	135mA	180
				● ● ● ●	24V / 3.96W	165mA	190
				● ● ● ●	24V / 5.04W	210mA	
				● ● ● ●	24V / 4.68W	195mA	
				● ● ● ●	24V / 6.12W	255mA	
				● ● ● ●	24V / 5.76W	240mA	
				● ● ● ●	24V / 7.20W	300mA	

Remark: 2 types of white are available: W: Cool White WW: Yellowish White

Optional Connector

Standard Lighting Male Connector

PIN 1	24V
PIN 2	-
PIN 3	GND

M8 Male Connector M8 Pin Assignment

PIN 1	-	-
PIN 2	RED	24V
PIN 3	-	-
PIN 4	BLACK	GND

M12 Male Connector M12 Pin Assignment

PIN 1	BROWN	24V
PIN 2	WHITE	-
PIN 3	BLUE	GND
PIN 4	BLACK	-
PIN 5	GRAY	-

Product Part Numbering System :
LLA-90-050-1-X-24V-M8

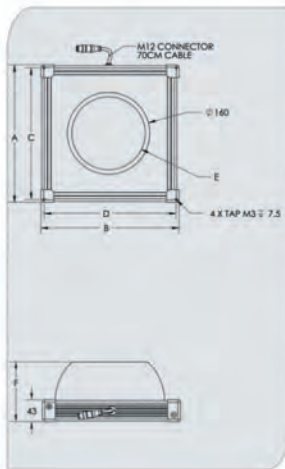
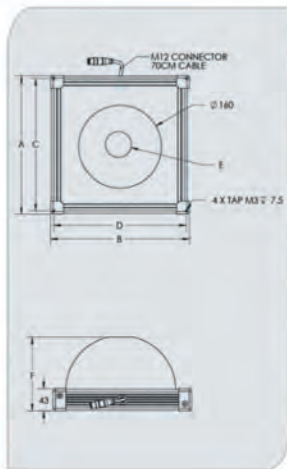
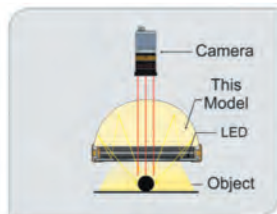
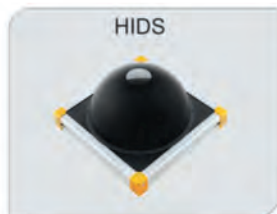
Product Part Numbering System :
LLA-90-050-1-X-24V-M12

HIDS SERIES – INDIRECT DOME LIGHT

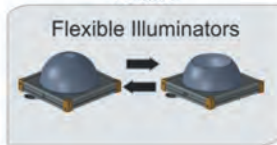
HIDS series shines from a conical surface providing illumination from all angles, allowing inspection images to be created without shadows.

HDLR SERIES – DARK FIELD ANGULAR LIGHT

HDLR series is an illuminator with LEDs arranged in a single row. This illumination provides a dark field effect which enables it to illuminate surfaces and inspect for scratches and pits.



Feature



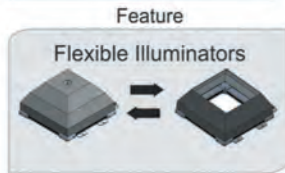
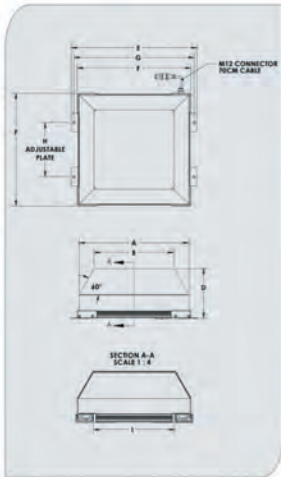
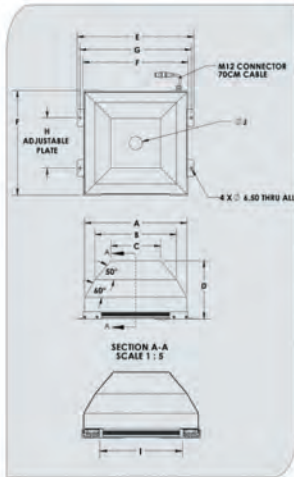
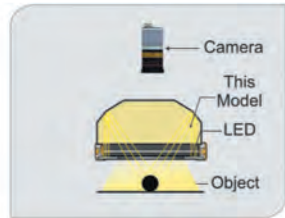
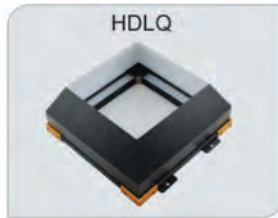
MODEL	DIMENSIONS (MM)						COLOR	VOLTAGE / WATT	CURRENT	WEIGHT (g)
	A	B	C	D	E	F				
HIDS-00-200-X	268	268	256	256	Ø50	143.6	●●○	24V / 18.72W	780mA	2160
					Ø140	117.4		24V / 17.47W	728mA	
HDLR-00-200-X	268	268	256	256	Ø142.6	117.4	●●○	24V / 18.72W	780mA	2070
					Ø140	117.4		24V / 17.47W	728mA	

HDLQ SERIES – DARK FIELD SQUARE LIGHT

HDLQ series is a dark field illumination that is suitable for detecting edges and contours without producing shadows.

HIDQ SERIES – INDIRECT SQUARE LIGHT

HIDQ series provides uniform and diffused illumination over a square area, providing excellent illumination for square and rectangular objects.



MODEL	DIMENSIONS (MM)										COLOR	VOLTAGE / WATT	CURRENT	WEIGHT (g)
	A	B	C	D	E	F	G	H	I	J				
HIDQ-00-190-X	270	215.7	131.2	154.8	308.4	278	294.4	134	194	Ø35	● ● ○	24V / 25.90W 24V / 23.00W	1080mA 960mA	2370
HDLQ-00-190-X	270	195.7	-	122.7	309.2	278	295.2	134	194	-	● ● ○	24V / 25.90W 24V / 23.00W	1080mA 960mA	2160