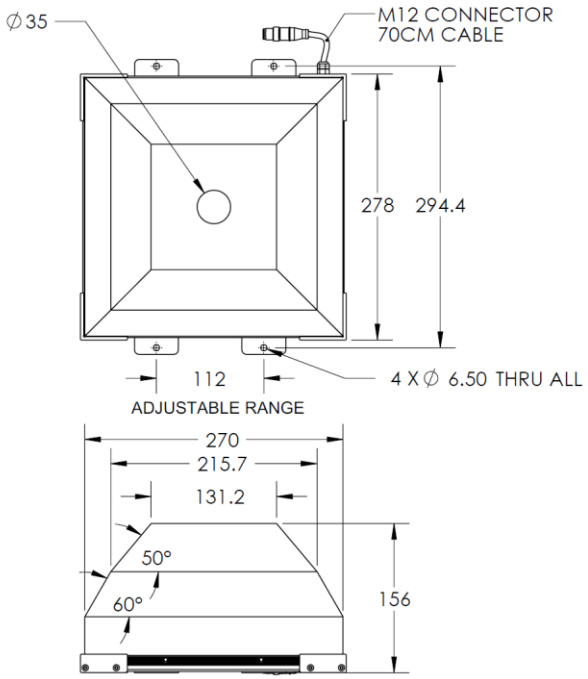
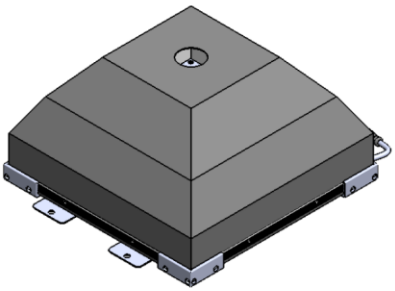
ILLUMINATOR DATA

HIDQ-00-190-X-W-24V

Lighting Dimension





Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	2370 g
Outer Dimension	278 X 278 mm
Inner Diameter	35 mm
Thickness	156 mm

HIDQ-00-190-X-W-24V

Optical Information				
Part Number		HIDQ-00-190-X-W-24V		
LED Colour		WHITE		
Wavelength	(nm)	*Chromaticity Table		
Intensity (±15%)	(Lux)	12164	10557	9896
Working Distance	(mm)	79	89	99
Illumination (number of rows)		2		
Illumination Active Area				
Active Outer Dimension	(mm)	200 X 200		
Active Inner Diameter	(mm)	35		
Emission Angle	(deg.)	0		
Eye Safety Class (IEC62471)		EXEMPT		

*CHROMATICITY TABLE

X	0.296	0.287	0.307	0.311
Y	0.276	0.295	0.315	0.294

X	0.311	0.307	0.33	0.33
Y	0.294	0.315	0.339	0.318

Electrical Information		
Lighting Supply Voltage (constant voltage mode)		24V ± 2%
Continuous Current	(mA)	960
Power Consumption	(W)	23.04
Lighting Casing Temperature, Operating after 60 minutes	°C	48.3

Strobe Mode Specification		
Pulse Operation		YES
Max. Lighting Supply Voltage (constant voltage power supply)	(V)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC
Pulse Current, (Max. 10 msec) (constant current power supply)	(mA)	2880
Max. Trigger Pulse Duration	(msec)	10
Duty Cycle		0-10%

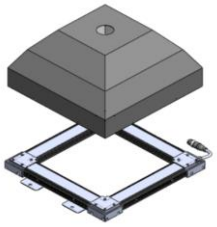
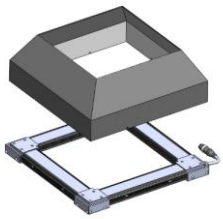
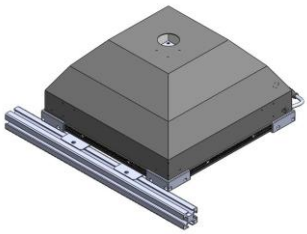
Additional Information		
Additional Cooling Method		Attached to machine part for better heat dissipation
Lifespan in Continuous Mode		20,000 hours (drop to 50% intensity) at 25°C
Lifespan in Strobe Mode		Est. >50,000 hours (drop to 50% intensity) at 25°C
Intensity Controller Selection		SD/SDA-Series
CE Conformity		YES
RoHS Compliance		YES

Connection				
Connector Type (default)		M12 5 PIN CONNECTOR (MALE)		
Cable Length (out from lighting)	(mm)	700		
Pin Configuration		Pin	Signal	Cable Colour
		1	24V	BROWN
		2	-	WHITE
		3	GND	BLUE
		4	-	BLACK
		5	-	GRAY

Extension Cable		
Connector Type (default)		M12 5 PIN CONNECTOR (FEMALE)
Part Number		EXT-FL-M12F-3M-24V
Cable Length (out from female connector)	(mm)	3000
Extension Cable (connect to M12 5 Pin Male Connector from lighting)		

Application	
Illumination Type	Indirect Square Illumination
Application Use	Crack, chip, stains and mark on edge of square or rectangular object

HIDQ-00-190-X-W-24V

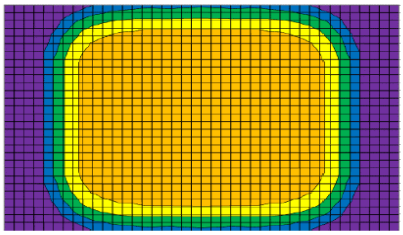
Advantages	
Flexible Illuminator	Indirect Square Illumination  Square Dark Field Illumination 
Easy Mounting	Extend Plate 

Uniformity Graph (Relative Irradiation Strength) - Representative Pattern

LENS FOCAL LENGTH, F = 6 mm

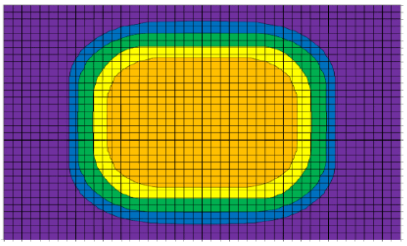
CWD = 190 mm
LWD = 30 mm

COLOUR	TOLERANCE	L X W
	± 10 %	120 X 130
	± 15 %	145 X 130
	± 20 %	155 X 145
	± 25 %	165 X 150
	± 30 %	205 X 150



CWD = 210 mm
LWD = 50 mm

COLOUR	TOLERANCE	L X W
	± 10 %	110 X 95
	± 15 %	125 X 110
	± 20 %	145 X 130
	± 25 %	155 X 150
	± 30 %	225 X 170



** Each individual box is 5 X 5 mm.*

**Disclaimer : The graphs portrayed are for reference only and does not in any way guarantee the quality of this product.*