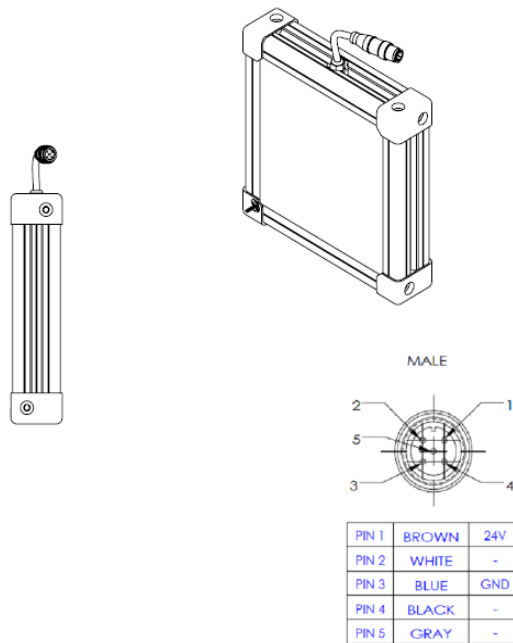
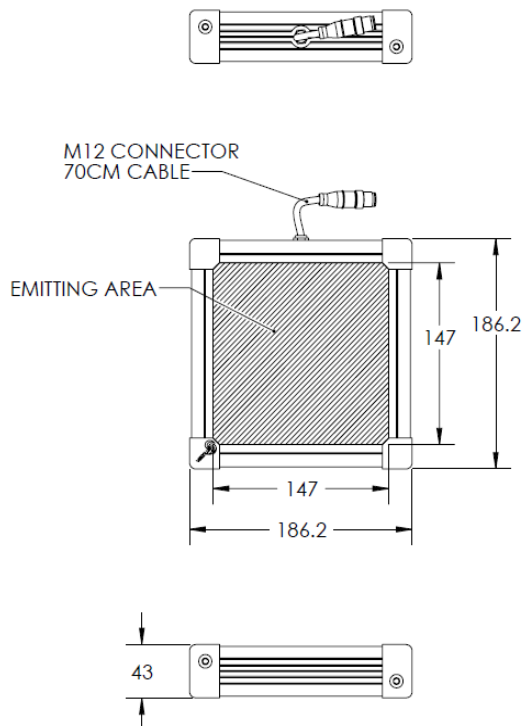


HBBX-00-160X160-X-W-24V

Lighting Dimension



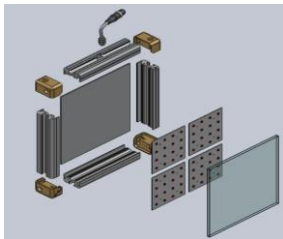
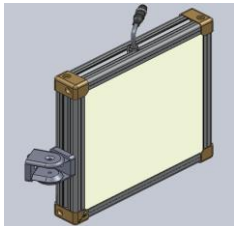
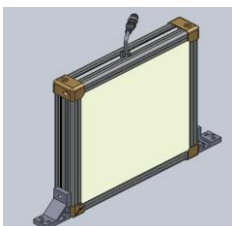
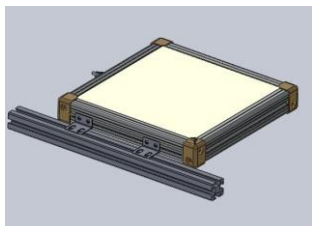
Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	1170 g
Length / Outer Diameter	186.2 mm
Width / Inner Diameter	186.2 mm
Thickness / Height	43 mm

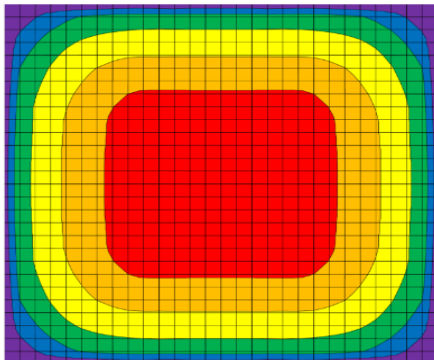


HBBX-00-160X160-X-W-24V

Optical Information																															
Part Number		HBBX-00-160X160-X-W-24V																													
LED Colour		WHITE																													
Wavelength	(nm)	* Refer to the Chromaticity Table Below																													
Intensity (±15%)	(Lux)	26160				23520				21360																					
Working Distance	(mm)	10				20				30																					
Illumination (number of rows)		X																													
Illumination Active Area																															
Active Length	(mm)	147																													
Active Width	(mm)	147																													
Emission Angle	(deg.)	0																													
Eye Safety Class (IEC62471)		EXEMPT																													
*CHROMATICITY TABLE		<table><tr><td>X</td><td>0.296</td><td>0.287</td><td>0.307</td><td>0.311</td></tr><tr><td>Y</td><td>0.276</td><td>0.295</td><td>0.315</td><td>0.294</td></tr></table>					X	0.296	0.287	0.307	0.311	Y	0.276	0.295	0.315	0.294	<table><tr><td>X</td><td>0.311</td><td>0.307</td><td>0.33</td><td>0.33</td></tr><tr><td>Y</td><td>0.294</td><td>0.315</td><td>0.339</td><td>0.318</td></tr></table>					X	0.311	0.307	0.33	0.33	Y	0.294	0.315	0.339	0.318
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Electrical Information																															
Lighting Supply Voltage (constant voltage mode)		24V ± 2%																													
Continuous Current	(mA)	500																													
Power Consumption	(W)	12																													
Lighting Casing Temperature, Operating after 60 minutes	°C	50.9																													
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)	1500																													
Max. Trigger Pulse Duration	(msec)	10																													
Duty Cycle		0-10%																													
Additional Information																															
Additional Cooling Method		Attached to machine part for better heat dissipation																													
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		Backlight Illumination																													
Application Use		Lead frame inspection, shape recognition, size measurement																													

HBBX-00-160X160-X-W-24V

Advantages	
PCBA Cascade	
Easy Mounting	<div>Join Bracket (Angle Mount)</div>  <div>L Bracket (Vertical Mount)</div>  <div>L-shaped Plate (Horizontal Mount)</div> 

Uniform Graph (Relative Irradiation Strength) - Representative pattern																							
<table border="1"> <thead> <tr> <th>COLOUR</th><th>TOLERANCE</th><th>L X W</th></tr> </thead> <tbody> <tr> <td>Red</td><td>± 5 %</td><td>75 X 72</td></tr> <tr> <td>Orange</td><td>± 10 %</td><td>102 X 99</td></tr> <tr> <td>Yellow</td><td>± 15 %</td><td>127 X 120</td></tr> <tr> <td>Green</td><td>± 20 %</td><td>137 X 133</td></tr> <tr> <td>Blue</td><td>± 25 %</td><td>142 X 140</td></tr> <tr> <td>Purple</td><td>± 30 %</td><td>145 X 145</td></tr> </tbody> </table>	COLOUR	TOLERANCE	L X W	Red	± 5 %	75 X 72	Orange	± 10 %	102 X 99	Yellow	± 15 %	127 X 120	Green	± 20 %	137 X 133	Blue	± 25 %	142 X 140	Purple	± 30 %	145 X 145		
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