





Lighting Information				
LED Color	BLUE			
Wavelength	8.82.4°01.6 Spectrum  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.			
Working Distance	15mm	20mm	25mm	
Intensity (±15%)	14000lx	8320lx	3540lx	
Illumination (Number of Row)	1			
Illumination Active Area	Active Outer Diameter 122			
Ittummation Active Area	Active Inner Diameter 121			
Emission Angle	90°			
Eye Safety Class (IEC62471)	EXEMPT  Products with sources, which do not pose any potential photobiological hazard even for the continuous and unrestricted exposure. Example: 8 hours of exposure poses no acute hazard to either eye or skin, and 10,000 seconds (2.8 hours) of the intent starting causes no blue light retinal hazard.			
Chromaticity Table For White Colour Only	Color Rank  Rank W  x 0.11 0.11 0.15 0.15  y 0.04 0.10 0.10 0.04  * Ranking at T <sub>A</sub> =25°C.  * Tolerance of measurements of the Forward Voltage is ±3%.  * Tolerance of measurements of the Luminous Intensity is ±10%.  * Tolerance of measurements of the Chromaticity Coordinate is ±0.01.  * A shipment shall consist of LEDs in a combination of the above ranks.  The percentage of each rank in the shipment shall be determined by Nichia.			

Electrical Information			
Rated Voltage	$24V_{(Min)}$ - $24V_{(Max)}$		
Rated Current	210mA		
Power Consumption	5.040W		
Casing Temperature, After 60 minutes operation	60°C		
After 60 minutes operation			

Strobe Mode Specification				
*Normal Strobe Voltage	24V			
*Normal Strobe Current	210mA			
Overdrive Voltage Range	Min: 36V	Max: 48V		
Overdrive Current Range	Min: 832mA	Max: 1454mA		
Recommended Overdrive Voltage	36V			
**Max. Trigger Pulse Duration	10%			
**Max. Duty Cycle	10msec			

<sup>\*</sup>Normal strobe means the lighting is operated using the rated power. Overdrive means the power supplied to the lighting exceeded the rated power.

<sup>\*\*</sup>Overdrive condition must not exceed the max. trigger pulse duration and max. duty cycle.



Connection Information					
Connector Type		JST SMR-03V-B			
Cable Length		500mm			
	Pin	Signal	Cable Color		
	1	24V	RED		
	2	-	-		
	3	GND	WHITE / BLACK		
Pin Configuration			3 1 PIN 1 24V PIN 2 - PIN 3 GND		

Additional Information			
Additional Cooling Method	Attached to machine part for better heat dissipation		
Intensity Controller Selection LTIC series			
CE Conformity	YES		
RoHS Compliance	YES		

Application Application					
Illumination Type	Direct, Low Angl	Direct, Low Angle, Ring Illumination			
Application Use	<ul> <li>Edge Detection</li> <li>Scratch on Metal or Glossy Surface</li> </ul>	CAMERA LENS			



Lighting Pattern				
Working Distance	For further details, please contact us			
Display and Image	For further details, please contact us			
	Horizontal	Meas. (mm)	Vertical	Meas. (mm)
	90%	N.A.	90%	N.A.
Data Results	90%	N.A.	90%	N.A.
	80%	N.A.	80%	N.A.
	70%	N.A.	70%	N.A.
	60%	N.A.	60%	N.A.
	50%	N.A.	50%	N.A.
	40%	N.A.	40%	N.A.
	30%	N.A.	30%	N.A.
	20%	N.A.	20%	N.A.
	10%	N.A.	10%	N.A.