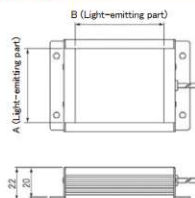


LED uniform light-emitting surface illumination ● TMN Series www.hikarishop.com



Outer dimensions



* Product specifications are subject to change without notice.

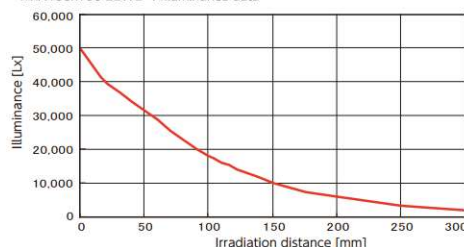
Use and features

- PWM power supply and constant-current power supply with Electronic Calibrate Identify (ECI) function available
- TMN Series provides uniform high brightness, high quality, low cost, and short delivery time
- This series can uniformly irradiate high-illuminance diffused light from the flat light-emitting surface, which is suited for transmission backlight.
- Proprietary heat dissipation structure delivers stable and high-illuminance irradiation
- Suited for a wide range of applications including transmission illumination and reflection illumination
- Best suited for inspection of translucent air bubbles and pinholes in sheets and measurement/inspection of outer shapes

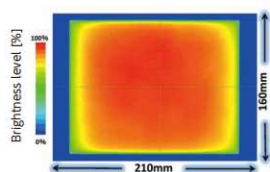
Model	A	B	Emission color / Maximum rated current / Power consumption Emission color code ● W white / ● R red / ● G green / ● B blue / ● IR850 / ● IR940	
TMN50x60-22*D-4	50	60	○ / 0.13A / 3.0W ● / 0.08A / 1.8W	● / 0.13A / 3.0W ● / 0.11A / 2.6W
TMN100x120-22*D-4	100	120	○ / 0.50A / 12.0W ● / 0.30A / 7.2W	● / 0.50A / 12.0W ● / 0.42A / 10.1W
TMN150x180-22*D-4	150	180	○ / 1.13A / 27.0W ● / 0.68A / 16.2W	● / 1.13A / 27.0W ● / 0.95A / 22.7W

● * : Emission color code

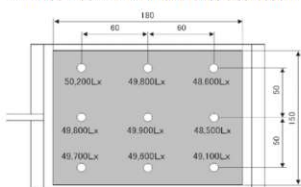
TMN150x180-22WD-4 illuminance data



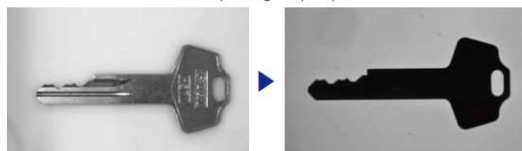
Brightness distribution characteristics



TMN150x180-22WD-4 illuminance distribution



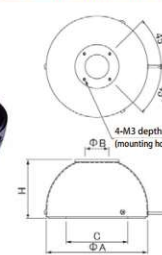
Example image: Key shape



LED dome illumination ● TD Series www.hikarishop.com

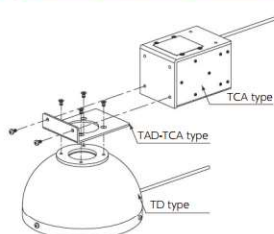


Outer dimensions

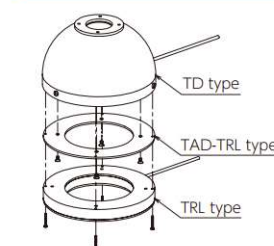


* Product specifications are subject to change without notice.

Coaxial epi-illumination-coupled structure



Low-angle ring illumination-coupled structure



Use and features

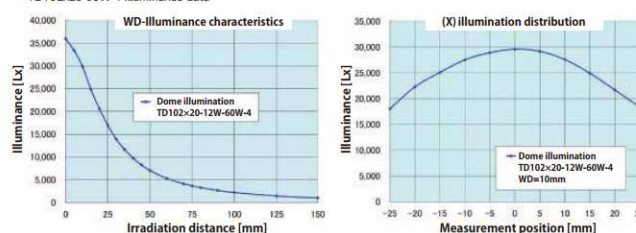
- PWM power supply and constant-current power supply with Electronic Calibrate Identify (ECI) function available
- Dome illumination TD Series provides high brightness, high quality, low cost, and short delivery time
- Dome-type reflection panel structure irradiates uniform diffused light
- Low-cost series helps keep overall equipment costs down
- The diffused light illumination method is usable for a wide range of applications.
- Best suited for inspection/recognition of foreign matter, contamination, holes, and characters on reflective metals/films, plastic surfaces, and curved work surfaces
- This illuminator can be coupled with the coaxial epi-illumination TCA type.*
- This illuminator can be coupled with the low-angle ring illumination TRL type.*

*Optional adapter required

Model	A	B	C	H	Emission color / Maximum rated current / Power consumption Emission color code ● W white / ● R red / ● G green / ● B blue / ● IR850 / ● IR940	
TD77x20-50*4	77	20	27	50	○ / 0.23A / 5.4W ● / 0.13A / 3.0W	● / 0.23A / 5.4W ● / 0.18A / 4.2W
TD102x20-60*4	102	20	52	60	○ / 0.30A / 7.2W ● / 0.18A / 4.2W	● / 0.30A / 7.2W ● / 0.25A / 5.9W
TD127x30-75*4	127	30	77	75	○ / 0.40A / 9.6W ● / 0.25A / 6.0W	● / 0.40A / 9.6W ● / 0.35A / 8.4W
TD152x30-85*4	152	30	102	85	○ / 0.50A / 12.0W ● / 0.30A / 7.2W	● / 0.50A / 12.0W ● / 0.42A / 10.1W
TD177x40-95*4	177	40	127	95	○ / 0.60A / 14.4W ● / 0.38A / 9.0W	● / 0.60A / 14.4W ● / 0.53A / 12.6W
TD202x40-110*4	202	40	152	110	○ / 0.75A / 18.0W ● / 0.45A / 10.8W	● / 0.75A / 18.0W ● / 0.63A / 15.2W
TD252x60-135*4	252	60	202	135	○ / 1.00A / 24.0W ● / 0.55A / 13.2W	● / 1.00A / 24.0W ● / 0.77A / 18.5W
TD302x60-160*4	302	60	252	160	○ / 1.15A / 27.6W ● / 0.70A / 16.8W	● / 1.15A / 27.6W ● / 0.98A / 23.6W

● * : Emission color code

TD102x20-60W-4 illuminance data



Example image: Sphere

