

NUCON

DEVELOPMENT IN GERMANY

The NUCON infrared light model **IR16TU** is a high tech digital LED infrared light source. It has a micro controller for steering the LEDs by PWM modulated buck converter directly. The buck converter has a new PNP driver for granting over the wide input voltage range high efficient operation. The full digital design has a temperature protection with power foldback. The **IR16TU** is remote controlable by cable or can be toggled on off and dimmed by push button. In case you want to use the **IR16TU** as a tail light you can dimm it down preset it to a very low intensity to avoid blinding. A red indicator LED on top of the body signals activity of light tube. The infrared diodes are having a state of the art intensity. The **IR16TU** is total invisible to the human eye because of an interference filter with an ultra sharp cutting edge. All the rest of the visible light is blocked let passing out only the invisible light. There is no red glow effect.

The **IR16TU** is setting the new standard in performance. Orderable as tube with push botton and indicator LED or as plain tube for operation by wires.

IR16TU INFRARED LIGHT FOR NIGHT VISION

TECHNICAL SPECIFICATIONS:

POWER SUPPLY	6Vdc to 32Vdc
POWER CONSUMPTION	< 3.5W
CURRENT CONSUMPTION IDLE	1mA
OUTPUTPOWER	dimmmable 0-2.5W
LIGHT OUTPUT INTENSITY typ.	8.8W/sr
OUTPUT WAVELENGTH	950nm
HALF ANGLE	± 5°
OUTPUTFILTER	interference
HOUSING	aluminum tube
HOUSING FINISH	black anodised
HOUSING BASE	stainless steel
OUTER DIMENSION	Dia. 35mm x 80mm
WEIGHT	250g
OPERATING TEMPERATURE	-40 to 85 °C
STORAGE TEMPERATURE	-40 to 100°C
ENVIRONMENTAL SEAL	fully PU potted
WATERPROOF	IP66



Preliminary datasheet to be changed without notice.

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