

PARAGONTECH

Illuminating the Night

As infrared illuminator manufacturer, we have developed IR LED Chip and applied to our illuminator so that we surpass the limit of conventional IR camera. Using our world's first built-in IR LED Chip illuminator, you can experience the unique technology of PARAGONTECH which can deliver outstanding and clear images in impenetrable darkness!





New Technology of the Paragon IR Chip in Infrared Illuminator

Surpass the limit of conventional IR LED by using the Paragon IR Chip more clearly! Further distance!

Semi-permanent life span of the Paragon IR Chip
 Deliver the ultimately clear image

High radiant density & intensity by optical lens



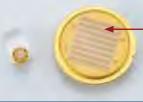
Feature	Paragon IR illuminator	Other IR illuminator
Main components	IR chip specially developed by R&D team of ParagonTech	Normal Giant LED purchased from LED manufacturer
Target distance	Designed aiming long distance	Designed aiming short distance
Target Purpose	Night time surveillance	Short range communication
Maximum visibility range	Max. 500m combined 3 units (1640ft)	150m(429ft)
Power consumption	Under 12W (150m/4 units)	Over 24W (150m/ 162 units)
Life span of IR illuminator	5 years	Normally 1year~Max. 2 years
Life span of LED chip	Over 5 years	Normally 1year~Max. 2 years
Heat resistance	Stable operation in the limit of electric current by sufficient intensity of radiation	Excessive operation exceeding the limit of electric current

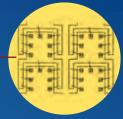
1st generation Paragon IR Chip technology

ParagonTech has developed Integrated power LED (a Light-Emitting Diode array package with heat radiation) performance in one chip by using efficient array to enhance LED performance.

Paragon IR chip (IR35, IR120chip)





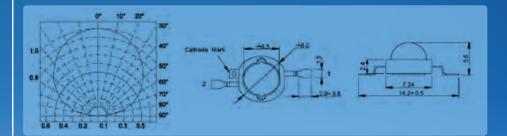


Outermost array of LED

2nd generation Paragon IR Chip technology

Max. Distance : 30m(Max.) Consumption : 3W Life span of LED chip : Over 5 years Wave length : 740nm / 850nm / 940nm LED chip size : 1.5 x 1.5mm (40mil)







Real Application Case

Infra-Red Illuminator



PI-3000

Visible distance & Beam Angle : 300m(984ft), 15° / 220m(721ft), 25° / 140m(459ft), 60°
Wave Length : 740nm, 850nm, 940nm
Power Consumption : Under 48W, Max DC 12V/AC 24V, 4A
Weight : 3kg
Dimension : 196(W) x 250(L) x 88.5(H)mm
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Flexible and Easy installation

IP67

Scientific structure and various angles covering over 180° provide user more convenient usage and installation environment.



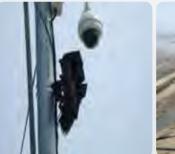
Superb illumination in long range

Paragontech's special LED delivers infrared illumination covering over 250m (1unit) to 500m (3units).



Paragontech's proprietary Technology of IR LED

Paragontech concentrated on IR LED technology over one decade to develop such a powerful and economic technology.





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We will serve the users with the highest quality products To satisfy its customers with the best quality products



PI-2000

Visible distance & Beam Angle : 220m(721ft), 15° / 150m(492ft), 25° / 110m(360ft), 60°

Wave Length : 740nm, **850nm**, 940nm

Power Consumption : Under 24W,

Max DC 12V/AC 24V, 2A

Weight : 1.65kg

Dimension : 152(W) x 205(L) x 67.5(H) mm





PI-1000

Visible distance & Beam Angle : 100m(328ft), 25° / 60m(196ft), 60°
 Wave Length : 740nm, 850nm, 940nm
 Power Consumption : Under 12W, Max DC 12V/AC 24V, 1A
 Weight : 0.87kg
 Dimension : 112(W) x 153.5(L) x 65.5(H) mm





Infra-Red Illuminator

HI-1508

- Visible distance & Beam Angle : 150m(492ft), 15° 100m(328ft), 25° / 60m(196ft), 60°
- Wave Length : 740nm, 850nm, 940nm
- Power Consumption : Under 18W, Max DC12V / 1.5A
- Weight : 1.7kg
- Dimension : 110(W) x 143(L) x 119(H)mm



HI-0808

- Visible distance & Beam Angle : 130m(426ft), 20° 100m(328ft), 40° / 80m(262ft), 60°
- Wave Length : 740nm, 850nm, 940nm
- Power Consumption : Under 18W, Max DC12V / 1.5A
 Weight : 1.7kg
- Dimension : 110(W) x 143(L) x 119(H)mm



HI-0708

Visible distance & Beam Angle : 150m(492ft), 15° / 100m(328ft), 25° / 60m(196ft), 60°

Wave Length : 740nm, **850nm**, 940nm

Power Consumption : Under 12W,

Max DC 12V/AC 24V, 1A

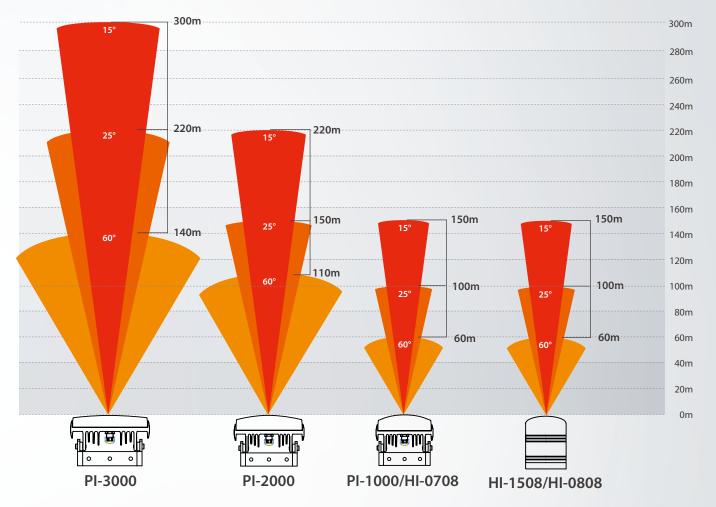
Weight : 0.9kg

Dimension : 111(W) x 153.5(L) x 72(H)mm





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Paragon Infra-Red Illuminator Distance Chart

100m Field test (IR illuminator on/off)







Whitelight Illuminator

Offering powerful lighting and longer life span, PW series are ideal for locations where professional monitoring in color image is required with low power consumption and brighter lighting in long ranged area at pitch-black night time.



PW-3000

- Visible Distance & Beam Angle : 500m(1,148ft), 15° / 290m(951ft), 25° / 190m(623ft), 60°
- Power Consumption : Under 96W,
- Max DC16V 6A
- Weight : 3kg
- Dimension : 196(W) x 250(L) x 88.5(H)mm



Adjustable built-in photocell

2 or 3 units connection available

IP67



PW-2000

 Visible Distance & Beam Angle : 270m(885ft), 15° / 190m(623ft), 25° / 140m(459ft), 60°
 Power Consumption : Under 48W, Max DC16V, 3A
 Weight : 1.65kg
 Dimension : 152(W) x 205(L) x 67.5(H)mm





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PW-1000

Visible Distance & Beam Angle : 130m(426ft), 25° / 90m(295ft), 60°
 Power Consumption : Under 24W, Max DC16V, 1.5A
 Weight : 0.87kg
 Dimension : 112(W) x 153.5(L) x 65.5(H)mm





HW-0700

Visible Distance & Beam Angle : 180m(492ft), 15° / 130m(426ft), 25° / 90m(295ft), 60°
 Power Consumption : Under 24W, Max DC16V/AC24V, 1.5A
 Weight : 0.87kg
 Dimension : 111(W) x 153.5(L) x 72(H)mm





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Real Application Case

This is a completely different concept of camera from conventional day & night one. Under city light conditions or glaring headlights, it can show clear image without blooming effect.

TIP! Solutions

Secluded areas or crime-ridden districts like parks, schools, buildings or houses
 Number plate surveillance at the entrance of buildings or parking lots



Conventional NPR (Number Plate Recognition)



Building Entrance

Image NPR (Number Plate Recognition) Capture Camera+Paragon IR Illuminator (Building Entrance)

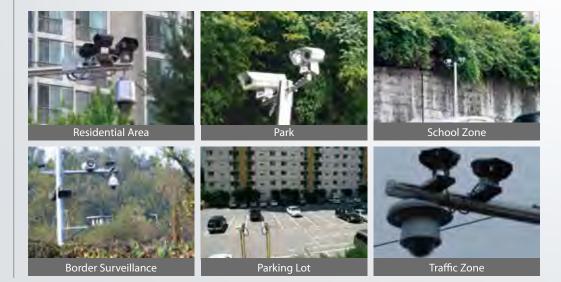


Paragon IR Camera



Conventional IR Camera

Application



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TIP! Solutions

- Places where one needs to conduct long distance surveillance at night time like Military areas, Mountainous areas or Construction sites.
- The place where one needs to conduct night time surveillance with 0 Lux darkness conditions like Powder magazines, armory in military areas or outskirts of the city.



Sea Port









The Specification is based on product of EWHAGLOBAL CO., LTD. Design and specification are subject to change without notice.