

IR LIGHTING

Code

BEWATOR

328-0043	IR300BULB	Replacement Bulb for IR300
329-0010	IR600BULB	Replacement Bulb for IR600

DENNARD

300 Watt 715Nm Filter

328-0076	DM2020300N715	Spot. With Photocell and Stoneguard
328-0074	DM2020300M715	Medium. With Photocell and Stoneguard
328-0075	DM2020300W715	Wide. With Photocell and Stoneguard

500 Watt 715Nm Filter

328-0073	DM2020500N715	Spot. With Photocell and Stoneguard
328-0072	DM2020500M715	Medium. With Photocell and Stoneguard

300 Watt 830Nm Filter

328-0086	DM2020300N830	Spot. With Photocell and Stoneguard
328-0085	DM2020300M830	Medium. With Photocell and Stoneguard
328-0084	DM2020300W830	Wide. With Photocell and Stoneguard

500 Watt 830Nm Filter

328-0077	DM2020500N830	Spot. With Photocell and Stoneguard
328-0078	DM2020500M830	Medium. With Photocell and Stoneguard

IR LAMP BULB LIFE

Installers and end users are often disappointed by the life they get from Halogen bulbs.

Manufacturers quote life expectancy figures as 'Mean Time'. They are not a guarantee of the bulb life. This simply means that on average after a number of hours quoted by the manufacturer **HALF OF THE BULBS WILL HAVE FAILED**. If the 'Mean Time' of 4,000 hours is quoted, half the bulbs will fail within that 4,000 hour period (5.5months).

Matters appear worse during the period of October to March, obviously because of the longer hours of darkness. During this period, lamps may be on as much as 16 hours each day. A simple calculation may be used in order to provide adequate maintenance on these systems.

If you have 5 external cameras each with 2 lamps that gives us a total daily lamp usage of:
 $10 \times 16 \text{ hr} = 160 \text{ hours per day.}$

If the lamp has a mean life expectancy of 4,000 hours, this means that you can expect a bulb to fail every:

$4,000 / 160 = 25 \text{ days.}$

You should make sufficient provision for this within a maintenance contract.

2025 Long Range Illuminator

328-0237	DM2025700	LED IR illuminator, 850Nm, 30 Degree Beam Width
328-0249	DM94032	Photocell for DM2025700

50 Watt 715Nm/830Nm Filter

328-0035	DM880M50715	50w, 715 Nm, Medium, 12Vdc
328-0023	DM880M50830	50w, 830 Nm, Medium, 12Vdc
328-0039	DM880PSU	240Vac Mains PSU for 880 Lamps
328-0045	DM8882	Photoelectric switch and 880 PSU fitted into W/P box

75 Watt 715Nm/830Nm Filter

328-0133	DM883M715	75w, 715 Nm, Medium, 12Vdc
328-0150	DM883M830	75w, 830 Nm, Medium, 12Vdc
328-0040	DM883PSU	240Vac Mains PSU for 883 Lamps
328-0044	DM8882105	Photoelectric switch and 883 PSU fitted into W/P box

DENNARD Accessories

328-0169	DM202028	Wall Mount Bracket for 2020 IR lamps
329-0018	DMHX502	500w, Spot, Replacement Bulb for 2020500 Series
329-0017	DMHX504	500w, Medium, Replacement Bulb for 2020500 Series
329-0006	DM886N	300w, Spot, Replacement Bulb for 2020300 Series
329-0005	DM886M	300w, Medium, Replacement Bulb for 2020300 Series
329-0007	DM886W	300w, Wide, Replacement Bulb for 2020300 Series
329-0015	DM95093	50 Watt, Narrow, Replacement Bulb for 880 Series
329-0001	DM95097	50 Watt, Medium, Replacement Bulb for 880 Series
329-0013	DM95092	75 Watt, Narrow, Replacement Bulb for 883 Series
329-0004	DM95091	75 Watt, Medium, Replacement Bulb for 883 Series

IR Lighting continued overleaf

IR LIGHTING (continued)

Code

GANZ - 3 year warranty

NEW	328-0405	IR5030	IR50, 30 degree, 850nm
NEW	328-0306	IR5050	IR50, 50 degree, 850nm
NEW	328-0406	IR50120	IR50, 120 degree, 850nm
NEW	328-0267	IR1002060	IR100, 20-60 degree vari-focal illumination, 850nm
NEW	328-0407	IR1002060940	IR100, 20-60 degree vari-focal illumination, 940nm
NEW	328-0307	IR10050100	IR100, 50-100 degree vari-focal illumination, 850nm
NEW	328-0308	IR100120180	IR100, 120-180 degree vari-focal illumination, 850nm
NEW	328-0408	IR10050100940	IR100, 50-100 degree vari-focal illumination, 940nm
NEW	328-0266	IR3002060	IR300, 20-60 degree vari-focal illumination, 850nm
NEW	328-0352	IR3002060940	IR300, 20-60 degree vari-focal illumination, 940nm
NEW	328-0265	IR30050100	IR300, 50-100 degree vari-focal illumination, 850nm
NEW	328-0312	IR300120180	IR300, 120-180 degree vari-focal illumination, 850nm
NEW	328-0353	IR30050100940	IR300, 50-100 degree vari-focal illumination, 940nm
NEW	328-0309	IR5002060	IR500, 20-60 degree vari-focal illumination, 850nm
NEW	328-0310	IR50050100	IR500, 50-100 degree vari-focal illumination, 850nm
NEW	328-0311	IR500120180	IR500, 120-180 degree vari-focal illumination, 850nm
NEW	328-0335	IR50050100940	IR500, 50-100 degree vari-focal illumination, 940nm
NEW	328-0317	IR5001020	IR500, 10-20 degree vari-focal illumination, ultra long distance 850nm
NEW	328-0409	IR750120180	IR750, 120-180 degree vari-focal illumination, ultra long distance wide angle 850nm

GENIE - 1 year warranty

	328-0241	IR36	Compact 12v IR LED Illuminator 870nm approx 20 mtr range (dependant on camera used) wall bracket, Internal & External use
NEW	336-0131	TPHIR6	High Intensity IR Illuminator w/6 LED's - 45 Deg Beam 24Vac AC. Supplied c/w bracket to fit to underside or to side of TPH housing
NEW	336-0134	TPHIR6240	as above except 240Vac AC

PLEASE NOTE :- Recommended PSU for 1 x TPH-IR Unit is Genie code PSU24/2

Recommended PSU for 2 x TPH-IR Units AND TPH Housing WITH Camera is Genie code TPH-PS244



TPH IR

PECAN - 3 year warranty

	328-0213	P60L	36 x LED's in PC60 housing, 12Vdc IP66
	328-0251	P60HL	60mm, dia Hi Power IR Led Lamp Assembly only - no camera IP66

VANTAGE - 3 year warranty

	328-0200	VL50715M	50w, 715 Nm, Medium, 12Vdc
	328-0201	VL50830M	50w, 830 Nm, Medium, 12Vdc
	328-0202	VL50B	50w, Replacement Bulb for VL5 series
	328-0203	VLPS	PSU 240Vac Mains PSU for use with VL5 series of IR Lamps
	328-0204	VLPH	Photoelectric Switch and VL5 series PSU complete in a W/P box



VANTAGE IR LAMP

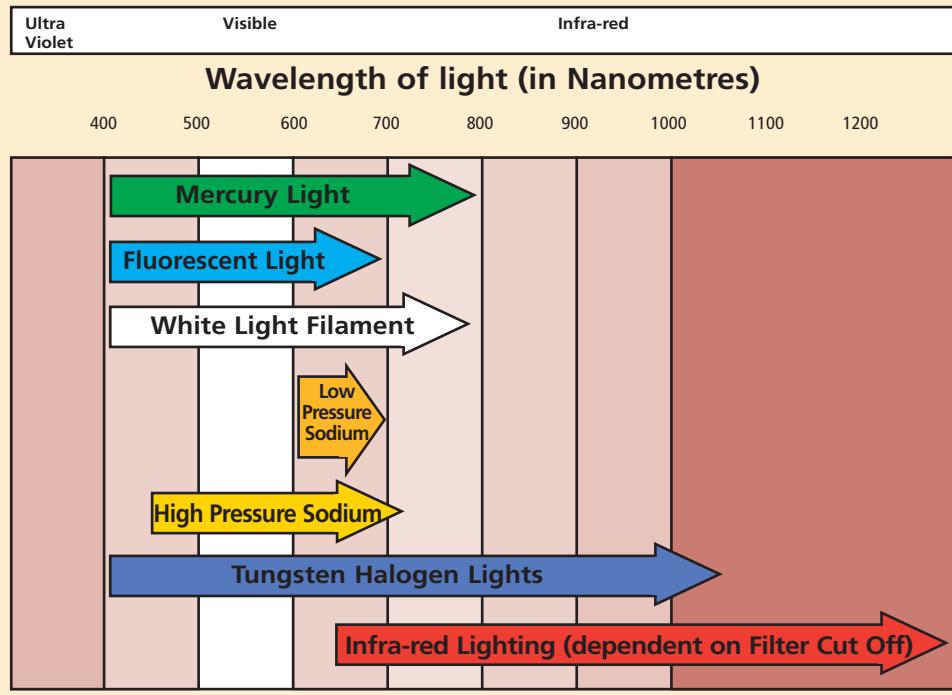
NOTES ON IR ILLUMINATION

IR Lamps are available in differing Wavelengths and Power outputs. In operation the lower Frequency Illuminators ie 715Nm & 730Nm will give off a faint red glow. Higher Frequency, shorter Wavelength units (830Nm) are almost totally discreet.

However not all Cameras give the same performance at the different Wavelengths. Cameras such as the Ikegami ICD 48E/49E are almost 95% efficient at 830 Nm, whilst at a similar frequency other Cameras may only be giving 50% efficiency and will work better with a lower Frequency Lamp. Check with our Technical Sales team regarding IR choice if you are unsure.

The DICHROIC IR Lamps work in the 730Nm range and will give off slightly more reddish light than the standard 715 Nm unit.

While all lighting provides illumination it does not always do so at the same frequency. For example, look at the chart below.



Different types of lighting have differing frequency ranges. This is an important consideration with some types of cameras. Colour cameras, for example, are designed to work best across the full white light range. Lighting for colour cameras can be provided by fluorescent lamps, standard white light bulbs and daylight.

All produce acceptable results. However, if a sodium vapour lamp was introduced it would cause an imbalance in the illumination because it does not cover the blue end of the spectrum. This would affect the colour reproduction.

IR LIGHTING (continued)

Code

White LIGHTING

GANZ - 3 year warranty

328-0410	WL5030	WL 50, 30 degree, White Light
328-0411	WL5050	WL 50, 50 degree, White Light
328-0313	WL50120	WL 50, 120 degree, White Light
328-0370	WL1002060	WL 100, 20-60 degree vari-focal illumination, White Light
328-0412	WL10050100	WL 100, 50-100 degree vari-focal illumination, White Light
328-0314	WL100120180	WL 100, 120-180 degree vari-focal illumination, White Light
328-0371	WL3002060	WL 300, 20-60 degree vari-focal illumination, White Light
328-0413	WL30050100	WL 300, 50-100 degree vari-focal illumination, White Light
328-0315	WL300120180	WL 300, 120-180 degree vari-focal illumination, White Light
328-0414	WL5002060	WL 500, 20-60 degree vari-focal illumination, White Light
328-0415	WL50050100	WL 500, 50-100 degree vari-focal illumination, White Light
328-0316	WL500120180	WL 500, 120-180 degree vari-focal illumination, White Light

IR Lighting continued overleaf

Certain items on this page may incur a delivery charge

AEGIS

INTELLIGENT-IR™

CONSTANTLIGHT™
BLACKDIAMOND™
POWERONBOARD™



FEATURE:

CONSTANTLIGHT™ OUTPUT INTENSITY

BENEFITS:

- Onboard microprocessor which compensates for LED degradation over the life of the illuminator.
- Delivers a constant level of infrared performance throughout the life of the illuminator.
- Delivers a constant level of infrared performance at varying ambient temperatures.
- Delivers High-Fidelity™ Evenly Illuminated night-time images throughout the life of the illuminator.
- Continues to deliver the specified IR range for the life of the illuminator.
- Reduces the initial input power consumption required for a greener, more environmentally friendly lighting solution.
- Removes illumination variability in products.



Initial illumination at start-up



Degraded IR illumination after 6 months

FEATURE:

BLACKDIAMOND™ TECHNOLOGY

BENEFITS:

- High-Fidelity™ Even Illumination balances scene foreground and background for outstanding image quality.
- Delivers up to 220m (720ft) for extended IR range.
- Delivers up to 120° horizontal beam widths for the most complete coverage from any IR illuminator.
- Enables 360° illumination with only 3 illuminators.
- Produces high clarity infrared, a perfect match for megapixel and dome camera illumination.

FEATURE:

POWERONBOARD™ BUILT IN 12VDC/24VAC POWER CIRCUIT

BENEFITS:

- Reduced installation costs.
- Easy quick installations.
- No separate PSU required.
- No unsightly installations where multiple PSU's are fitted round the pole.
- Reduced power input and power consumption for a more environmentally friendly lighting solution and lower running costs for the end user.

FEATURE:

HIGH EFFICIENCY SURFACE MOUNT LEDS THROUGHOUT THE AEGIS RANGE

BENEFITS:

- Improved optical output efficiency.
- Improved thermal management.
- Reduced power input and power consumption for a more environmentally friendly lighting solution and lower running costs for the end user.
- Extended LED life.
- Operational reliability.

FEATURE:

IP67 RATED

BENEFITS:

- Designed and rigorously tested to meet the exacting requirements of an IP67 classification.
- Resistant to environmental conditions including dust and water ingress.

FEATURE:

5 YEAR WARRANTY

BENEFITS:

- Guaranteed long life and infrared performance.
- European based support and advice.



AEGIS

INTELLIGENT-IR™



Controlled by Constant Light™ (patent pending) technology to combat LED degradation, a problem common with all other LED illuminators, AEGIS intelligently controls light output to guarantee a constant level of lighting performance.

Powered by Black Diamond™ for up to 220m of IR and beam widths to 120°, AEGIS features an installation friendly direct 12VDC / 24 VAC Power-On-Board™ feature that can do away with the need for a separate PSU.

- CONTROLLED BY **CONSTANTLIGHT™**
- POWERED BY **BLACKDIAMOND™**
- 12 VDC / 24 VAC **POWERONBOARD™**
- NO PSU REQUIRED
- HIGH PERFORMANCE SURFACE MOUNT LEDS
- ENERGY EFFICIENT OPERATION

www.DerwentCCTV.com

IR LIGHTING (continued)

Code

DERWENT

MINIFLOOD LED 850Nm

328-0319	MFLED10850	MFLED, 10°, 850Nm, incl photocell (requires PSU)
328-0199	MFLED20850	MFLED, 20°, 850Nm, incl photocell (requires PSU)
328-0064	MFLED30850	MFLED, 30 degree 850Nm, inc Photocell (Requires PSU)
328-0065	MFLED60850	MFLED, 60 degree 850Nm, inc Photocell (Requires PSU)
368-0576	MFLED20940	MFLED, 20°, 940Nm, incl photocell (requires PSU)
328-0320	MFLED50940	MFLED, 50°, 940Nm, incl photocell (requires PSU)
328-0113	PSU23024	Dedicated power supply, can run 2 units.

NOTE: Derwent LED power requirement: 12Vdc/24Vac.

MICROLED 850Nm

328-0122	MicroLED850W	CubeLED, Short Range, Solid State Illuminator, 60 Degree Wide, 850Nm (Requires PSU)
328-0123	MicroLED850M	CubeLED, Short Range, Solid State Illuminator, 30 Degree Medium, 850Nm (Requires PSU)
328-0321	MicroLED940W	Cube LED, short range solid state IR, 60° wide, 940Nm (requires PSU)
328-0318	MicroLED940M	Cube LED, short range solid state IR, 30° wide, 940Nm (requires PSU)
328-0113	PSU23024	Dedicated power supply. Can run 2 units

*** NOTE: Derwent LED Power requirement: 12Vdc/24Vac.**

SUPERLED 850Nm

328-0261	SuperLED10850	Long Life, High Power, Solid State LED Illuminator, 10 Degree, 850Nm, inc PSU, 240x119x180
328-0264	SuperLED20850	Long life, high power solid state IR illuminator, 20°, 850Nm, includes PSU
328-0121	SuperLED30850	Long Life, High Power, Solid State LED Illuminator, 30 Degree, 850Nm, inc PSU, 240x119x180
328-0216	SuperLED60850	Long Life, High Power, Solid State LED Illuminator, 60 Degree, 850Nm, inc PSU, 240x119x180
328-0132	SuperLED20940	Long life, high power solid state IR illuminator, 20°, 940Nm, includes PSU

SUPERLED "Black Diamond"

NEW	328-0338	BDS108BD	Black Diamond SuperLED 10 Deg, 850Nm with Brkt and Advanced feature PSU
NEW	328-0339	BDS208BD	Black Diamond SuperLED 20 Deg, 850Nm with Brkt and Advanced feature PSU
NEW	328-0340	BDS308BD	Black Diamond SuperLED 30 Deg, 850Nm with Brkt and Advanced feature PSU
NEW	328-0341	BDS608BD	Black Diamond SuperLED 60 Deg, 850Nm with Brkt and Advanced feature PSU
NEW	328-0342	BDS958BD	Black Diamond SuperLED 95 Deg, 850Nm with Brkt and Advanced feature PSU
NEW	328-0343	BDS1358BD	Black Diamond SuperLED 135 Deg, 850Nm with Brkt and Advanced feature PSU



BLACK DIAMOND SUPERLED

UFLED - Aegis

NEW	328-0396	UFLED108BD	Aegis UFLED, 10 Deg, 850Nm, 12-24V ac/dc input, 45W
NEW	328-0397	UFLED208BD	Aegis UFLED, 20 Deg, 850Nm, 12-24V ac/dc input, 45W
NEW	328-0398	UFLED308BD	Aegis UFLED, 30 Deg, 850Nm, 12-24V ac/dc input, 45W
NEW	328-0399	UFLED608BD	Aegis UFLED, 60 Deg, 850Nm, 12-24V ac/dc input, 45W
NEW	328-0400	UFLED958BD	Aegis UFLED, 95 Deg, 850Nm, 12-24V ac/dc input, 45W
NEW	328-0401	UFLED1208BD	Aegis UFLED, 120 Deg, 850Nm, 12-24V ac/dc input, 45W
NEW	328-0402	UFLEDCL1M	1m Telemetry Link Cable
NEW	328-0403	UFLEDCL5M	5m Telemetry Link or Day/Night, switching Cable
NEW	328-0404	PSUUFLED230X2	Dedicated PSU for the Above



AEGIS

UNIFLOOD LED 850Nm Filter

328-0272	UFLED10850	UFLED, 10 degree, 850Nm, includes PSU
328-0248	UFLED20850	UFLED, 20 degree, 850Nm, includes PSU
328-0112	UFLED30850	UFLED, 30 deg. useable to 50 deg, 850Nm, inc PSU
328-0189	UFLED60850	UFLED, 60 deg. useable to 60 deg, 850Nm, inc PSU
328-0062	UFLED20940	UFLED, 20 deg. useable to 30 deg, 940Nm, inc PSU

Q. WHAT TYPE OF ILLUMINATION CAN I USE WITH COLOUR CAMERAS?

A. Only lighting within the visible wavelength should be used with colour cameras. Tungsten Halogen is often the recommended source of lighting.

Q. CAN I USE I/R LAMPS WITH COLOUR CAMERAS?

A. The answer to this is a definitive NO. Colour cameras are typically fitted with an ITR cut filter and will not allow IR light in excess of 700Nm to pass resulting in the camera performing poorly in these circumstances.

IR LIGHTING (continued)

Code

UNIFLOOD 600 695Nm Filter

328-0207	UF600SPOT	UF600, Spot lens (Requires PSU)
328-0208	PSU6ST	Twin UF600 power supply inc Photocell

UNIFLOOD 500 730Nm Filter

328-0027	UF50010730	UF500 Cossec 10 degree Lens (Requires PSU)
328-0029	UF50030730	UF500 Cossec 30 degree Lens (Requires PSU)
328-0033	UF500S730	UF500 Spot Lens (Requires PSU)
328-0031	UF500F730	UF500 Flood Lens (Requires PSU)
328-0024	PSU5SS	Single UF500 power supply inc Photocell
328-0025	PSU5ST	Twin UF500 power supply inc Photocell

UNIFLOOD 300 730Nm Filter

328-0048	UF30010730	UF300, Cossec 10 degree Lens (Requires PSU)
328-0047	UF30030730	UF300, Cossec 30 degree Lens (Requires PSU)
328-0046	UF300S730	UF300, Spot Lens (Requires PSU)
328-0049	UF300F730	UF300, Flood Lens (Requires PSU)
328-0050	PSU3SS	Single UF300 power supply inc Photocell
328-0051	PSU3ST	Twin UF300 power supply inc Photocell

**UNIFLOOD 300**

* NOTE: 830Nm, 950Nm and Colour Filters available to order
Special PSU's are available with alarm inputs, timers.

MINIFLOOD 730Nm Filter

328-0059	MF10010730	MF100, 10 degree Lens (Requires PSU)
328-0069	MF10030730	MF100, 30 degree Lens (Requires PSU)
328-0068	MF10060730	MF100, 60 degree Lens (Requires PSU)
328-0066	PSUMINISS	Single MF100 power supply inc photocell
328-0067	PSUMINIST	Double MF100 power supply inc photocell

* NOTE: 830Nm and Colour Filters available to order.

Accessories**DERWENT**

328-0053	SB5270	Single bracket for Derwent IR for top mount P&T. Heads
328-0052	DB5270	Double bracket for Derwent IR for top mount P&T. Heads
328-0205	MBP360	Pole mount bracket kit, mounting up to 8 IR units allowing for 360 degree illumination
328-0214	MBW180	Wall mount bracket kit, mounting up to 4 IR units, allowing for 180 degree illumination
328-0215	MCB270	Corner mount bracket kit, mounting up to 6 IR units, allowing for 270 degree illumination
328-0219	DWB4	Dome / IR 4 way wall bracket for Derwent Infra-Red
328-0220	DCB4	Dome / IR 4 way corner bracket for Derwent Infra-Red
328-0221	DPB2	Dome / IR 2 way clamp bracket (114-168mm, dia) for Derwent Infra-Red
328-0222	DPB2+	Dome / IR 2 way clamp bracket (194-273mm, dia) for Derwent Infra-Red
328-0217	DPB4	Dome / IR 4 way clamp bracket (114-168mm, dia) for Derwent Infra-Red
328-0218	DPB4+	Dome / IR 4 way clamp bracket (194-273mm, dia) for Derwent Infra-Red
329-0014	UNILL	Replacement bulb kit for Uniflood 300 series
329-0011	UNIPF	Replacement bulb kit for Uniflood 500 series
329-0016	MINILL	Replacement Bulb kit for Miniflood 100