



BETALIGHT
when reliability really counts

TACTICAL

MILITARY LIGHTING SYSTEMS





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MILITARY LIGHTING SYSTEMS

THE LIGHTS ARE DESIGNED FOR BOTH THE RETROFIT AND
NEW BUILD MARKET SOLUTIONS

Aviation

Vehicle Lights

Ship Lighting

Military Shelter Lighting

Military Equipment

Sight Illumination

Tritium Illumination

Identification Systems



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AVIATION

LED lighting for military fixed wing and rotary aircraft.
Solutions include external lighting systems,
internal cockpit / cabin lighting, and the widest range of positional,
landing and taxi lights.



A range of landing lights that are integral to the landing sequence of a huge range of aircraft used for commercial and military purposes. Including PAR 64, the High Intensity LED Landing Light and a Dual Mode Landing Light.



Innovative, tritium self-powered and permanently illuminated signs and labels for use in passenger transport systems and vehicles.



They are superior to strobes in all areas; smaller, lighter, brighter, more robust and are more reliable. Intended to be used in pairs, one above and one below the aircraft, they utilise the world renowned night vision .



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AVIATION



LED
Mini Floodlight

LED mini floodlights are small, lightweight, low profile LED lighting solutions for new build and retrofit applications. Initially designed and installed in cockpits and vehicle cabins.



DC
Combi Cabin Lights

The DC Combi is ideal for existing and new built vehicles. It's design is unique, white light output and a integrated blackout mode in the desired colour.



LED
Gooseneck

The LED Gooseneck incorporates state-of-the-art LED lighting technology to provide a rugged task light designed to meet the toughest military standards. An exceptionally bright and highly focused task light.



Multi-purpose
Markers

The guide your path when the lights go out. The self-luminous markers are always on and require no electricity. The perfect solution for route safety, marking of vital portable equipment.



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AVIATION



Betalight
Self-luminous Torch

The self-luminous Torch is a compact, lightweight light source with reliable and secure illumination that does not affect night vision.



LED
Lamp Indicators

Panel Mount Indicator Lamps & Panel Mount RGB LEDs. Combine the latest technology with proven mechanical and optical expertise to provide a wide range of products designed for the most demanding of industrial and military applications.



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VEHICLE LIGHTS

High Power Driving Lights



High performance LED lights giving the operators that powerful punch of light they are looking for at night, while maintaining the widespread visibility

LED Rear Tail Lights



The Rear Tail Lamp benefits from the added durability, visibility, and longevity of LEDs to ensure you don't have to worry about it prematurely failing or not producing enough light.



Black Out Lights



These Black Out Lights are designed for military use only to withstand the demands of the battlefield in terms of durability and longevity.

5-in-1 Headlights



The 5-in-1 headlight is the new standard for 90mm lights, providing drop-in replacement for original equipment manufacturers (OEMs), up-fitters, vehicle fleets, and individuals looking for the best performing LED lights.

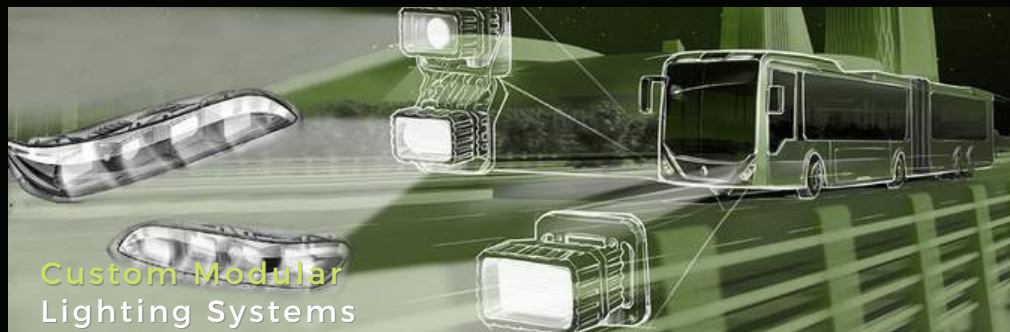


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VEHICLE LIGHTS



Custom Modular
Lighting Systems

Custom designs without custom costs & timing. Avoid high optical tooling costs with a modular system. Unique, high-quality customized vehicle lighting. Ideal for buses, trucks, motorcycles, ebikes, ATV/UTV and RVs.



LED
Work Light

When you're searching for the most illumination possible, search no further than the Model 623. Boasting bright, white light, the Model 623 has a high-output LED scene light. The most powerful product yet. It is perfect for a wide range of uses.



LED
Lamp Indicators

Panel Mount Indicator Lamps & Panel Mount RGB LEDs. Combine the latest technology with proven mechanical and optical expertise to provide a wide range of products designed for the most demanding of industrial and military applications.



Dual Mode
Searchlight (VI/ IR)

The Model 4600 is newest remote controlled product for the military. The 4600 gives soldiers the capability to use both a powerful LED spotlight and a covert Infrared LED searchlight in the same light.

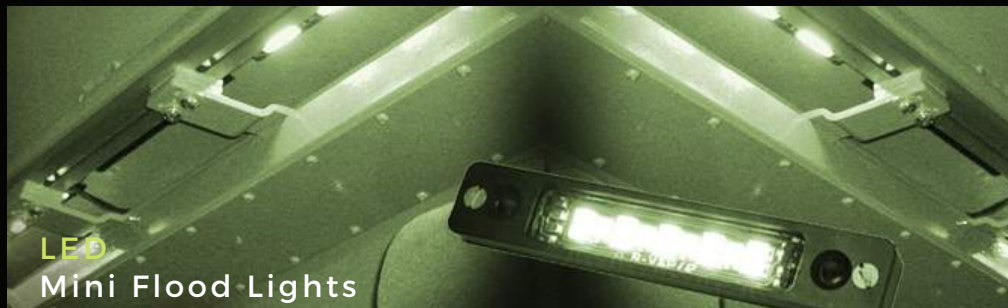


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VEHICLE LIGHTS



LED
Mini Flood Lights

LED mini floodlights are small, lightweight, low profile LED lighting solutions for new build and retrofit applications. Initially designed and installed in cockpits and vehicle cabins.



(IR)
Driving Lights

Riding safely at night while using Night Vision Goggles is now possible with Covert Convoy Lights. These low intensity lights improve the driver's perception of distance caused and reduce the risk of collisions with the vehicle in frontments.



DC
Combi Cabin Lights

The DC Combi is ideal for existing and new built vehicles. It's design is unique, white light output and a integrated blackout mode in the desired colour.



LED
Gooseneck

The LED Gooseneck incorporates state-of-the-art LED lighting technology to provide a rugged task light designed to meet the toughest military standards.

VEHICLE LIGHTS



They are superior to strobes in all areas; smaller, lighter, brighter, more robust and are more reliable. Place IR Beacon Lights on top of vehicles, tents and hard-walled shelters such as ground stations.

THE LIGHTS ARE DESIGNED FOR BOTH THE RETROFIT AND NEW BUILD MARKET SOLUTIONS

A comprehensive range of internal and external military vehicle lights. The suite offers options in normal visible, NVG compatible, NVG friendly and covert technology. We have experience in both night vision compatible upgrades and the provision of interior cabin lighting. The LED lights are suitable for all types of military vehicles including APCs (armoured personnel carriers) and logistics vehicles, both in the new build and retrofit market. The lights are proven in use on major vehicle programmes including the Foxhound in the UK, the BvS10, the Husky and the Eagle. Many lights offer an MTBF in excess of 50,000 providing significant through life cost savings and energy savings when compared to traditional vehicle lights.

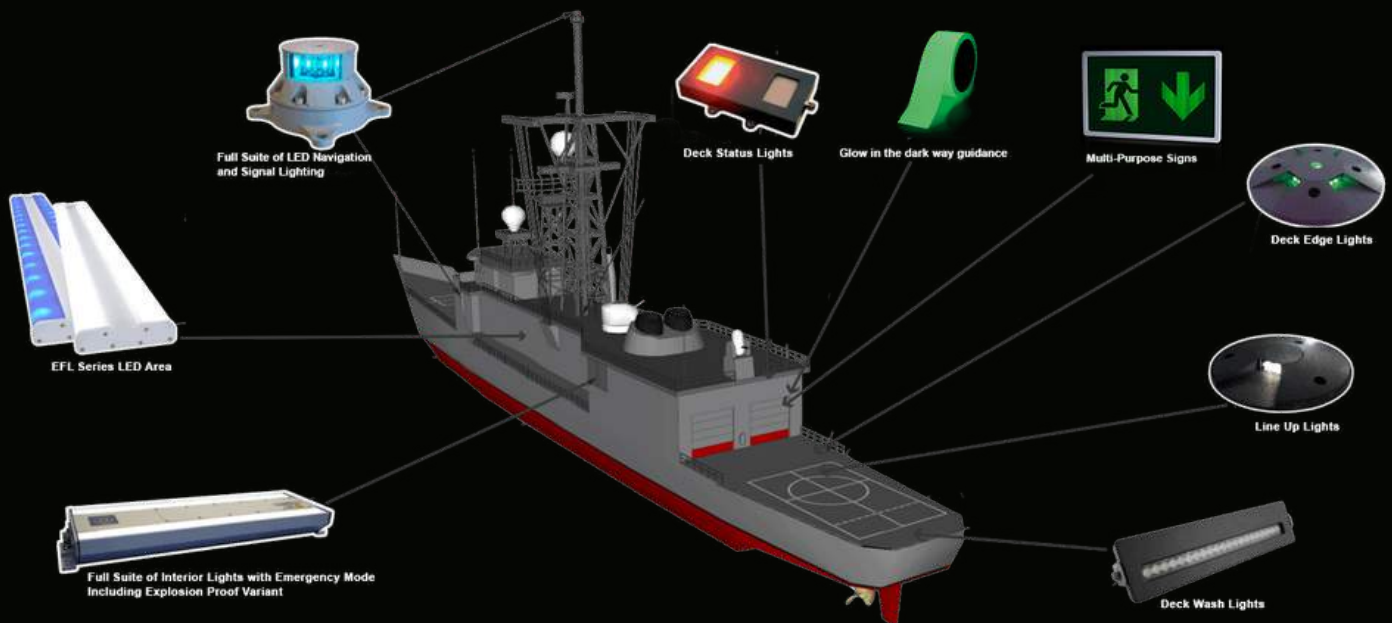
Vehicle products include electronic components such as LED panel lamps available in a number of configurations to deliver the required colour and voltage and built to tough military standards. EMI filters ensure electromagnetic interference does not affect the performance of the vehicle and communications.

Lighting options include IR driving lights and convoy lights, these enhance the capabilities of a vehicle whilst operated using military night vision goggles. The IR light creates a beam at 880nm which illuminates the path in front of the vehicle whilst only having a low NVG signature for covert operations.

A range of cabin lights, the DC combi is available in 3 models offering different levels of functionality and specification. This is a low profile cabin light designed to maximise head room and offer a rugged 'fit and forget' solution. This is a white light with an integrated black out mode; suitable for both new build and retro-fit projects.

SHIP LIGHTING

NAVAL LIGHTING FOR USE ON PATROL BOATS, HOVERCRAFTS AND LARGE SHIPS. THE ASSORTMENT INCLUDES A FULL RANGE OF NAVIGATION LIGHTS, COCKPIT DECK LANDING LIGHTS, VISUAL LANDING AIDS AND COMPARTMENT LIGHTING; FROM HIGH RISK AREAS REQUIRING EXPLOSION PROOF LIGHTING TO PASSAGE LIGHTING. LIGHTING SOLUTIONS FOR CONTROL ROOMS AND BRIDGES, SUCH AS TASK LIGHTING AND HIGH SPECIFICATION LED PANEL LIGHTS, ARE ALSO AVAILABLE.





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SHIP LIGHTING



**Multi-Purpose
Signs**

The most energy efficient signs currently on the market. The signs do not need any external power, no additional light source, no batteries required are waterproof and explosion safe



**Glow in the dark
Way guidance**



A simple, yet highly effective product for guiding people to safety in the event of reduced visibility. This self-adhesive glow in the dark products absorbs light. Once it is dark, the product will glow brightly.



**Marine
Navigation Lights**

The range of LED marine navigation lights has been specifically developed for vessels over 50 metres. The suite contains a full ships set of navigation lights with options available in both AC and DC variants.



**LED
Flight Deck Lights**

A complete LED solution for naval and marine deck lighting requirements. They require limited space below the deck surface and are therefore ideally suited to retrofit applications as well as new build vessels.



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SHIP LIGHTING



Deck
Wash Lights

The lighting systems works as a Floodlight to illuminate the deck surface with visible white light or a night vision compatible green light, which is ideal for helicopter pilots wanting to land on the vessel.



Deck
Status Light

The deck status light is designed for military applications and has a robust casing that can withstand challenging environments. It is usually installed on flight decks or helipads and can provide an indication of whether it is safe to land.



Full Suit of interior lights
with emergency mode

Full Suit of interior lights with emergency mode including explosion proof variant are designed and built for the unique environment of a submarine; offering high IP rating, battery back-up and explosion proof enclosures.



EFL
Series LED Area Light

The EFL series provides a highly reliable, low profile, rugged & durable area lighting solution which is available in a range of size options. The EFL features are external dimming control and a secondary red, green or blue mode.

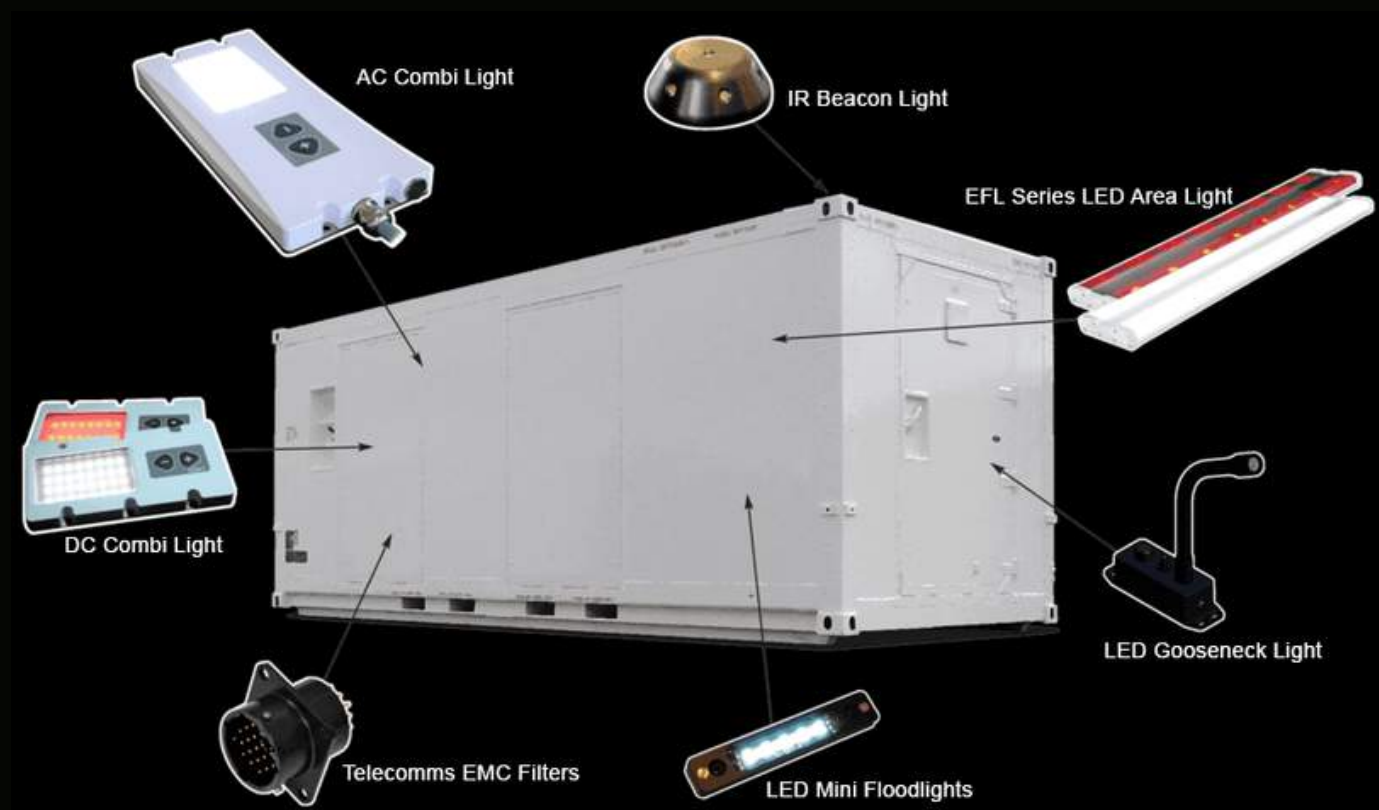


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MILITARY SHELTER LIGHTING



Solutions include the AC Combi light and the EFL flat light; these both incorporate dimming control and a tactical blackout mode. The AC Combi light is a high performance area light; it is designed to replace fluorescent tubes and offers maximum power savings. The light requires 30W input and provides 2600 lumens output. The light has a dimming function and optional features to meet all customer requirements from a regular white light to a fully functioning combi light. The unit is specifically designed for mobile shelter and tent applications and meets stringent standards on EMC emissions, and shock & vibration requirements. The light is also available with a battery back-up mode. The EFL series offers a high reliability rugged & durable area light, the low profile design is available in a range of size options. The EFL is designed to deliver power savings and improved MTBF over fluorescent tubes and the units can be used as part of an emergency lighting system. The EFL features external dimming control and is available with a secondary green, blue or red option.

A unique blended polycarbonate diffuser reduces the effect of 'LED hotspots' producing a more habitable environment. The EFL series is designed to be surface or recess mounted onto a solid substrate for naval or hard shelter applications, or mounted via webbing for tent and soft shelter installation.

The units are designed to be surface or recess mounted for hard shelter applications, or attached via webbing for tent and soft shelter use.



BETALIGHT

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TACTICAL

MILITARY SHELTER LIGHTING



**Multi-Purpose
Sign**

The most energy efficient signs currently on the market, these versatile, rugged and durable products are redefining the emergency signage sector.



**EFL Series
LED Area Lighting**

The EFL series offers a high reliability rugged & durable area light, the low profile design is available in a range of size and colour options.



**LED
Mini Flood Lights**

LED mini floodlights are small, lightweight, low profile LED lighting solutions for new build and retrofit applications.



**DC & AC
Combi Light**

A range of low profile LED lighting to satisfy a variety of requirements for robust, reliable and high performance lighting systems.



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MILITARY SHELTER LIGHTING



IR
Beacon

They are superior to strobes in all areas; smaller, lighter, brighter, more robust and are more reliable. It is very suitable to place IR Beacon Lights on top of tents and hard-walled shelters



LED
Gooseneck

The LED Gooseneck incorporates state-of-the-art LED lighting technology to provide a rugged task light designed to meet the toughest military standards.



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MILITARY EQUIPMENT

ALL OUR PRODUCTS ARE HIGH SPECIFICATION, RUGGED AND
DESIGNED SPECIFICALLY FOR CHALLENGING ENVIRONMENTS



Betalight Self-luminous
Torch

The self-luminous Torch is a compact, lightweight light source with reliable and secure illumination that does not affect night vision.



Plastimo Handbearing
IRIS 50 Compass

Plastimo IRIS 50 Hand bearing compass
Illumination of the Plastimo handheld compass is self-powered, requiring no batteries, bulbs, or secondary light source.



Betalight
Aiming Post Lamp

Self-Luminous Aiming Post Lamps enable tablishment and maintenance of covert infantry and artillery weapons alignment in darkness.



Betalight
Self-luminous Peg Light

The perfect solution for minefield marking for vehicle and personnel patrol lanes, marking of weapon positions, arc of fire definition or route marking.



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MILITARY EQUIPMENT



Betalight
Self-luminous Map Reader

Self-Luminous Map Readers provide a secure and effective means for map illumination and magnification in darkness, without affecting night vision.



Soldier's
Personal illuminator

The self-powered Soldier's Personal Illuminator (SPI) is a lightweight, compact multi-purpose light source



Plastimo
Helicopter Lanyards

Personal retention and extraction lanyard. Designed to connect to the user's harness and to a fixed surface or to an extraction point via an aluminum carabiner.



Plastimo
Commando lifejacket

Tactic Lifejacket Best-in-class for safety and technical features. State-of-the-art-Tecnology for optimum safety. Hammar Inhibitor System

SIGHT ILLUMINATION

TRITIUM AND LED SIGHT ILLUMINATION FOR CHALLENGING SITUATIONS, WHERE EVERY SECOND COUNTS!



Tritium **Sight Illumination**

Trilux Tritium H3 Sight Illumination offer a handgun sighting system for improved rapid instinctive aiming which requires no transition from day to night use. Day and night, the shooter's aiming reference is three solid dots, identical in appearance and location under all light conditions. Adding no weight and occupying zero extra space, they can withstand prolonged immersion in commonly used solvents and cleaning compounds.



Tritium Hyper-Bright **Sight Illumination**

Hyper-Bright Tritium fixed pistol sight features an extremely bright contrasting colored ring front sight. Shooters can select from one of three colors— Green, Yellow or Orange—for the front sight. The tritium is illuminated green to provide low-light and nighttime aiming capabilities. The contrast in colors of the two components helps the shooter focus on the front sight quicker, which is critical in defensive and competitive shooting.



LED **Sight Illumination**

Evergreen is a super bright LED-based illuminated sight for daytime and nighttime operations. The Evergreen enables the shooter to hit stationary or moving targets while increasing dramatically the hit probability. The super bright LED light source inserted into both front and rear metal housing, ensure a clear sharp illuminated three-dot picture. The Evergreen has an exceptional power source that ensures constant and reliable use of 5 consecutive years of operation.



TRITIUM ILLUMINATION

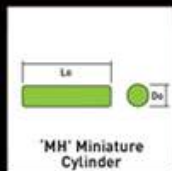
The perfect lighting solution for any applications.

A Betelight is a sealed glass capsule internally coated with a phosphorescent powder and filled with tritium gas to produce a continuous light throughout a **service life of 15 years**.

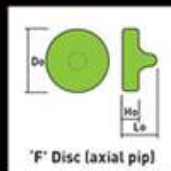
Our gaseous tritium light sources (GTLS) are absolutely reliable, completely maintenance free and do not require an external power supply or ambient light for charging.

Betalight offers you total design flexibility. The lights can be produced in straight tubes, disk and spheres to suit all individual applications. Sizes vary from the smallest tube, with a diameter of 0,3 mm and 1,3 mm length, up to disks of 90.0 mm diameter and tubes up to 200.0 mm in length.

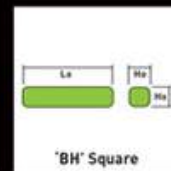
The Betelight / GTLS can be inserted in every product in almost every hazardous area where a lamp is required. The betalight emits a cold, clear light, there is no electricity needed, therefore, no fire or spark risk making it an ideal technology for various applications.



	MIN.	MAX.
Do	0.65	3.5
Lo	2.7	50.0



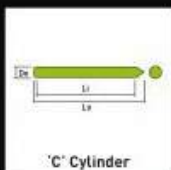
	MIN.	MAX.
Do	6.5	22.0
Ho	2.0	8.0
Lo	8.0	12.5



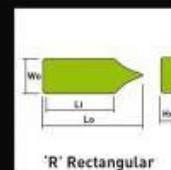
	MIN.	MAX.
Ho	1.0	2.5
Lo	4.0	50.0



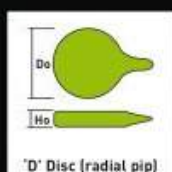
	MIN.	MAX.
Do	3.0	7.0
Ri	5.0	99.5
Angle of Arc dependent upon radius	10°	350°



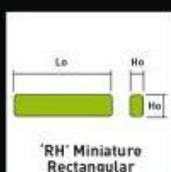
	MIN.	MAX.
Do	3.0	7.0
Lo	15.0	200.0
Li	10.0	195.0



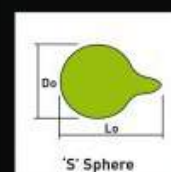
	MIN.	MAX.
Wo	3.0	15.5
Ho	1.5	5.0
Lo	15.0	99.5
Li	10.0	93.0



	MIN.	MAX.
Do	5.0	22.0
Ho	2.0	6.0



	MIN.	MAX.
Wo	1.7	4.0
Ho	0.6	2.0
Lo	6.0	50.0



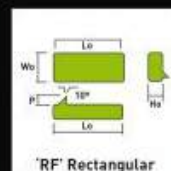
	MIN.	MAX.
Do	4.0	15.0
Lo	8.0	21.0



	MIN.	MAX.
Do	4.6	15.0
Lo	8.7	21.0
WD	1.5	6.5



	MIN.	MAX.
Do	12.5	21.5
Ho	6.2	12.8
P	4.0	8.5



	MIN.	MAX.
Wo	5.0	15.5
Ho	2.5	8.0
Lo	10.0	99.5
P	nominal	7.0



	MIN.	MAX.
Wo	3.0	5.5
Ho	1.5	3.8
Ri	5.0	99.5
Angle of Arc dependent upon radius	10°	350°

Do : Overall diameter
Ho : Overall height
Ø : Angle of arc

Ri : Inside radius
WD : Window diameter

Li : Lit length
P : Pip height

Lo : Overall length
Wo : Overall width



BETALIGHT

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TACTICAL

IDENTIFICATION SYSTEMS



Infrared

Infrared light is part of the electromagnetic spectrum where wavelengths are slightly longer than visible red light and shorter than microwaves, because the wavelengths are around 800nm to 1mm it is completely invisible to the human eye but can be felt as heat. Night vision devices allow you utilise this light using two different techniques, thermal imaging and image intensifiers. Both give you the ability to see in the dead of night.



Inverted V Infrared
Reflective Vehicle Decals

The products transmit a high intensity infrared reflective signature with an IR transmission value of >70% at 835nm. Using an IR capable PVS-14 night vision device items in the product range can be identified at over 800 metres.



passive thermal solutions
for the covert identification of personnel, vehicles
and equipment

TWO Sided Identification
Safety Panel - Rugged,
lightweight, simple to
deploy and relying on no
power to operate GTAS
system will continue to
work until the moment you
are recovered.



IDENTIFICATION

IR Reflective
Badges, Patches and Insignia

An Infrared identification
system that enables a full
colour badge or insignia to
be produced whilst still
achieving a 100% infrared
reflective signature.

