WARDEN
NV SCOPES

DARK ENGINE BLADE USER INSTRUCTIONS

WARDEN DARK ENGINE SERIES SAFETY INSTRUCTIONS

WARNING: The product is a high power infrared illuminator that emits invisible light and is only to be used in accordance with these instructions.

RISK GROUP 3

WARNING: Hazardous optical IR radiation emitted from this product. Do not stare at operating lamp. No direct eye exposure to the beam is permitted.

RG3 IE EN62471-5 :2015
CLASS 1 IEC EN60825-1:2014

WARNING: Read instructions fully before attempting to operate the product!

SAFE USE:
The product should **ONLY** be used when fitted to a firearm. The front of the illuminator should be mounted as far back as possible and **AT LEAST** 34cm rearward of the muzzle of the firearm. This will limit exposure to the beam.
The battery must be removed when the product is not fitted to a firearm and the product stored securely away from children.

NEVER USE THE PRODUCT HANDHELD!

As distance increases from the product, risk to exposure decreases.

Distance	RG	Note:
<34cm	3	Hazardous optical IR radiation emitted from this product. Do not stare at operating lamp. No direct eye exposure to the beam is permitted.
>34cm	2	Possibly hazardous optical IR radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.
>78cm	1	No risk under normal usage conditions.
>190cm	0	No risk.

Designed and manufactured to exacting standards, here in the UK and backed by a lifetime warranty.

Our design rationale for the Blade was that while NV devices were getting smaller and lighter, the illuminators on the market were getting bigger and heavier! We have solved this issue with the smallest, lightest illuminator that has no handicap on the quality or power of the illumination.

Starting with our long proven, ultra-reliable very high output pill, we designed a new compact high precision lens and single piece body. Power control is provided by our variable rotary intensity control.

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The pill has the power to illuminate out to 900+ yards and give a clear image of the target at 600+ yards at 10X magnification and above. This is in the worst application case which is a Pard NV007V, behind a day scope which limits light to the digital sensor. Dedicated scopes or front clip ons will achieve even further distance.

The lens is very precise and matched to the pill allowing us to reduce size and weight while improving efficiency and output. It runs from tight spot (for add on use) to wide flood (for dedicated scope use) in under one turn of the lens focus. There is no movement or wobble of any kind in the focus mechanism dislodging the beam.

The body is a single piece aluminium, again of our design, with 25mm and 30mm diameter sections for easy mounting with adjustable or fixed mounts. The Blade can be used with standard ring mounts as no extra height is needed to clear a large diameter lens.

The power is controlled by our variable rotary power control which features an integral, near silent, push/push on/off switch and power on indicator LED. For completely silent operation the variable rotary part of the switch can be used. The infinite intensity control allows the power to be set precisely to suit the NV device, distance and conditions allowing the illuminator to work perfectly with high sensitivity dedicated scopes or low sensitivity add-on systems.

SPECIFICATIONS:

Weight	170g
Battery life	4-90 Hours
Battery	18650 3.7V Button top protected
Dimensions	167x34 Body dia 25 and 30mm
Beam angle	1.5-6 degrees

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BEAM PROFILE PRESET ADJUSTMENT:
As standard the Dark Engine BLADE is supplied with the beam profile set to fill the field of view of a dedicated NV scope at 3.5x magnification. For use with an add on, over 10x magnification the beam can easily be re-profiled to give maximum performance with an add on system.

INSTRUCTIONS:
WARNING: Remove the battery and tail switch.

Remove the M2 grub screw from the torch body with a .9mm socket driver.
Take care not to lose the screw!

Unscrew the lens assembly by holding the body. Do not unscrew holding the knurled focusing grip.

Remove the o ring from the top of the pill.

Unscrew the pill using a set of needle nose pliers or tweezers.

Fit the o-ring to the pill behind the shoulder to space the pill closer to the lens.
Refit the pill until resistance of the o-ring is felt and tighten ⅛ turn more.
Refit lens and grub screw.

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