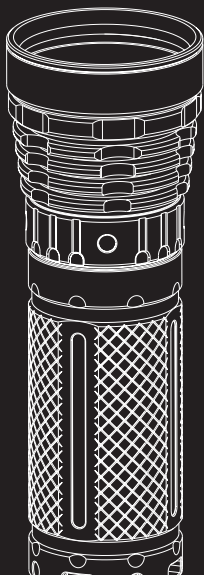




BLIZZARD 909 LUMEN  
SEARCH & RESCUE LED FLASHLIGHT

FS-E45R

USER MANUAL



VULTA™

## Thank you for choosing Vulta.

The Vulta Blizzard FS-E45R projects an ultrabright white light with a crisp, focused beam. Designed for search and rescue applications, this high-output flashlight produces a maximum 909 lumens of light capable of penetrating deep into the woods. The 6 lm minimum is ideal for close work when your eyes are adjusted to the dark, and the strobe and SOS modes can be used for emergency signaling and communication. The FS-E45R is operated entirely by the continuously-variable control ring on the lamp head, making this model one of our most intuitive flashlights.

The Blizzard FS-E45R incorporates the CREE XM-L2, a breakthrough LED market-leader, which combines high efficiency with high drive-current. The LED is housed in a deep, smooth reflector that maximizes throw and concentration. An ultraclear, tempered glass lens optimizes resistance to impacts and scratches.

Crafted from MIL-SPEC Type III hard anodized aluminum alloy with a stainless-steel bezel, and with a waterproof rating of IPX-8, the Blizzard FS-E45R is a rugged tool that will withstand harsh environments. The knurled grip, deep-machined heat-sink fins, and oversize variable-control ring provide enhanced performance when holding the flashlight with cold or wet hands or while wearing gloves. Powered by three 18650 or six CR123 or RCR123 batteries, the FS-E45R delivers the brilliance of a powerful searchlight in a body that's compact enough to fit in your coat pocket.

The Blizzard FS-E45R is compatible with the Vulta FA-CH1 Universal Charger (not included). This charging base can be kept in your home or vehicle, so you can have your flashlight always charged and ready to go.

## PRECAUTIONS ⚠️⚡

- Please read and follow these instructions, and keep this manual in a safe place.
- This flashlight is extremely bright and can cause temporary or even permanent blindness. Do not shine the flashlight in the eyes of any person or animal. When powering on the flashlight, make sure to point it down or away from you and anyone else.
- The surface of this product can become hot after prolonged use. Be careful when touching it, and make sure to keep it away from anything flammable or combustible.
- Do not stand the flashlight upright on its lamp head when powered on. In this position, the lamp head can become dangerously hot and damage the flashlight and anything nearby.
- Never leave the flashlight unattended when it is powered on.
- Before long-term storage, remove the batteries and store them in a cool and dry place to avoid leakage.
- Always install batteries of the same type, brand, and age. Do not combine different types or brands, or old and new batteries.

This can cause the batteries to leak, overheat, or explode.

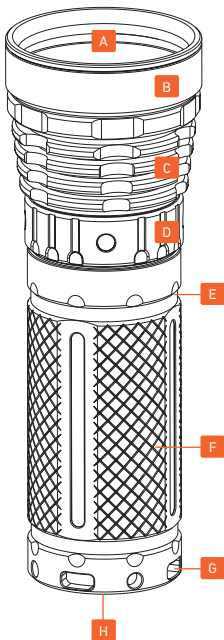
- Install the batteries in the proper orientation as indicated by the markings in the battery carrier. Installing batteries in the reverse orientation can cause them to leak, overheat, or explode, and will void the warranty.
- This product is waterproofed for freshwater only. If it comes into contact with salt water, immediately dry the flashlight and remove the batteries, reassemble, and rinse with freshwater. Dry thoroughly and install new batteries.
- Do not attempt to disassemble or repair this product. It is dangerous and will also void the warranty.
- Keep this product away from children. Do not leave children unattended near this product.
- Use only parts provided by the manufacturer.
- Make sure that this product is intact and that there are no missing parts.
- To avoid damage to this product, be careful not to overtighten or improperly thread any of the threaded fittings.
- All photos are for illustrative purposes only.

# PRODUCT DIAGRAM

- A** LED
- B** LAMP HEAD
- C** HEAT SINK AREA
- D** VARIABLE-CONTROL RING
- E** O-RING
- F** GRIP
- G** LANYARD EYELETS
- H** CHARGING CONTACTS

## Also Included:

- HOLSTER
- LANYARD
- SPARE O-RING
- USER MANUAL
- TWO-YEAR LIMITED WARRANTY



## A Note about Maximum Output

When the flashlight is in High mode, the battery discharge, drive circuit, and LED will all be producing heat, and the lamp head may become extremely hot. Please be cautious when touching it. To protect the battery, circuit, and LED, and to extend the lifetime of the flashlight, we do not recommend continuously running the flashlight on High mode for more than 10 minutes.

## INSTALLING BATTERIES

The Blizzard FS-E45R is powered by three 18650 or six CR123 or RCR123 (3 or 3.7 V) batteries. The batteries are inserted into the all-aluminum battery carrier, which is housed in the flashlight's grip. The battery carrier can be preloaded so it's always ready for use. To facilitate quick and easy loads in low-light situations, the carrier can face either direction when you insert it into the grip.

**Note:** Make sure to load the batteries with the positive and negative terminals facing the proper directions. Loading batteries into the

carrier incorrectly can damage the flashlight and void the warranty.

**Important!** When charging via the Vulta FA-CH1 Universal Charger, use only rechargeable 18650 batteries.

To install batteries, follow these steps:

1. Make sure the flashlight is turned off.
2. Unscrew the lamp head from the grip and remove the battery carrier.
3. Insert three fresh 18650 or six fresh CR123 or RCR123 batteries into the battery carrier. Make sure the batteries are facing the proper direction as indicated by the markings on the carrier.
4. Insert the battery carrier in either direction into the grip.
5. Screw the lamp head onto the grip until secure.

## OPERATION


The Blizzard FS-E45R employs a continuously-variable control ring to turn on the flashlight, control output power, and engage Strobe mode.



## POWERING ON THE BLIZZARD FS-E45R

The Blizzard FS-E45R employs a continuously-variable control ring to turn on the flashlight, control output power, and engage Strobe mode.

## SETTING THE MODE

**Strobe:** Strobe mode continuously emits quick flashes of bright light. To enter strobe mode, rotate the variable-control ring clockwise all the way, so it rests under the strobe-mode marking [  ].

**SOS:** In SOS mode, the flashlight blinks brightly in the international Morse code distress signal pattern (· · · — — — · · ·). To enter SOS mode, start with the flashlight turned on and in strobe mode. Quickly rotate the variable-control ring past the maximum-output marker, and then back to the strobe-mode marker.

## THE LANYARD

You can attach and wear the included lanyard to help prevent accidental drops and to free up a pocket. To attach the lanyard, clip it onto one of the lanyard eyelets on the flashlight's tailcap.

## O-RING MAINTENANCE

The Blizzard FS-E45R's O-ring is installed on the threaded fitting to help seal out water. The O-ring is prelubricated to extend its lifetime, ensure smooth operation, and increase water resistance. If the O-ring dries out or there is little or no lubricant remaining, we recommend applying a small amount of O-ring lubricant.

The FS-E45R comes with a replacement O-ring. If the original wears out after long-term use, replace it with the included spare.

# SPECIFICATIONS

OUTPUT	Maximum, Strobe: 909 lm Minimum: 6 lm
BEAM INTENSITY	45,156 cd
LED TYPE	CREE XM-L2
POWER SOURCE	Three 18650 or six CR123 or RCR123 (3 or 3.7 V) batteries
RUNTIME	Maximum: 2 hr. Minimum: 150 hr.
CONSTRUCTION	Body: MIL-SPEC Type III hard anodized aerospace-grade aluminum alloy Bezel: Stainless steel Lens: Tempered glass
IMPACT RESISTANCE	Up to 6.5' (2 m)
WATERPROOFING	IPX-8 standard, up to 6.5' (2m) submersion
EFFECTIVE RANGE	1,394' (425 m)
DIMENSIONS	Length: 6.5" (16.5 cm) Head Diameter: 2.2" (5.7 cm) Tail Diameter: 1.7" (4.5 cm)
WEIGHT	Without batteries: 12.5 oz. (355 g) With batteries: 1.1 lb. (499 g)



## TWO-YEAR LIMITED WARRANTY

This VULTA product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of two (2) years from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Vulta Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Vulta along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit [www.vultagear.com](http://www.vultagear.com) or call Customer Service at 212-594-2353.



Product warranty provided by the Gradus Group.  
[www.gradusgroup.com](http://www.gradusgroup.com)

VULTA is a registered trademark of the Gradus Group.

© 2014 Gradus Group LLC. All Rights Reserved.