

## Congratulations

Congratulations on the purchase of your new Bullard Edge Thermal Imager.

Edge combines the latest advancements in thermal imaging technology without our expertise in impact and element resistant engineered materials to bring you the most durable thermal imager on the market. The compact design and easy-to-use interface is ideal for numerous law enforcement, tactical security, and force protection applications.

Some of the uses for your Edge Thermal Imager include:

- Vehicle Pursuits and Fugitive Searches
- Perimeter Surveillance
- Search and Rescue
- Hidden Compartments in Vehicles
- Marine and Ground Surveillance
- Environmental Law Enforcement
- Officer Safety
- Force Protection

### ▲ WARNING

READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT. YOUR THERMAL IMAGER IS LIKE ANY OTHER TOOL. IT MUST BE USED PROPERLY AND SAFELY. ALL USERS SHOULD BE TRAINED ON THE PROPER AND SAFE USE OF THERMAL IMAGING PRIOR TO USING THE EDGE THERMAL IMAGER. THIS IS ESPECIALLY IMPORTANT FOR USERS WHO MAY USE THE EDGE THERMAL IMAGER IN HAZARDOUS OR LIFE-ENDANGERING SITUATIONS.

FAILURE TO FOLLOW THIS INFORMATION COULD RESULT IN DEATH OR SERIOUS INJURY.

## Getting Started

### Registering Your Edge via myBullard™

Before using your Edge Thermal Imager for the first time, it is necessary for you to register the product with Bullard. Registration accomplishes these important tasks.

- Registration assures that you will always stay informed of the latest product updates, service and training information related to the Edge Thermal Imager.
- Registration will reduce the startup time of your imager from 30 seconds to about five seconds.
- Registration activates a security feature on Edge. With this feature activated, should your Edge ever become lost or stolen, provide Bullard with a copy of a police report so we can flag that serial number in our database. If the imager is ever returned to Bullard for service or upgrade, you will be notified.

### ! NOTE

Do not connect your Edge Thermal Imager to your computer until after the myBullard software is installed. Failure to observe this practice may result in the installation of defective USB drivers.

### Downloading and Installing myBullard Software

myBullard is a powerful tool for you to register, inventory, maintain, service, and enhance your thermal imaging products and accessories. This easy-to-use software enhancement will help you organize and optimize your thermal imaging operations.

If you turn on your Edge prior to registration, the Edge display will advise you of the need to register your thermal imager. This message will be displayed for 30 seconds, after which, the Edge will function normally. Upon registration;



however, the advisory message will disappear and the Edge will power up to normal operation in less than four seconds.

Registration is accomplished by downloading and installing the myBullard software onto your computer, running myBullard, and then connecting your Edge Thermal Imager via the enclosed data cable. To download the myBullard software, insert the CD that came with your Edge. After the program loads, click myBullard under the Edge icon and follow the instructions to download and install the program.

### ! NOTE

As an alternative to using the CD, you can connect to the internet and go to [www.bullard.com/mybullard](http://www.bullard.com/mybullard).

Upon running the installation program, you will be prompted with language and license terms selections and then the following dialog box (Figure 1). Make sure to select applicable modules so that these will be available when you run myBullard. However, if you do not do this, you can still add modules within myBullard at any time.

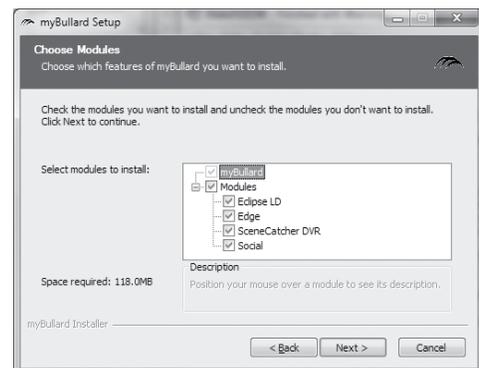


Figure 1

Make sure you have selected, at minimum, the Edge module. After selecting the modules and clicking the Next button, the installation process for myBullard will begin. Follow the remaining prompts and instructions to complete installation.

## Using myBullard

Begin by launching myBullard from the icon on your desktop. Create a profile in the opening menu and complete the requested information. Upon completion,

you will need to activate your account from your email (myBullard will send you an activation email). Once you activate your account, you will be able to use all features in myBullard.

myBullard is composed of separate modules, logically categorized to help you navigate within the program. Each module also contains a help section to assist you in using the module. Below are overviews of the modules used with Edge.

## Edge module

In the Edge module, you can:

- register your Edge thermal imager(s)
- customize the startup graphics by loading your own picture
- manage your Edge inventory
- review operating manuals

### NOTE

For instructions on how to use other modules that are available via myBullard, consult the corresponding user manuals of these products located in the modules.

## Installing a module

To install a module in myBullard, click the “+” symbol located in the bottom right corner of the myBullard main screen. Click the “Available Modules” tab and select a new module from the list.

## Connecting Your Edge Thermal Imager

After installing the myBullard software, you will need to connect your Edge Thermal Imager to your computer. In order to connect your Edge to your computer, please follow these steps (Figure 2):

1. Press in firmly and pull back on battery release to release battery.
2. Press in firmly and pull back on battery release and insert red data cable assembly.
3. Connect power adaptor to red data cable assembly.
4. Connect power adaptor to power outlet.
5. Connect USB to PC.
6. Turn on Edge by pressing power button.

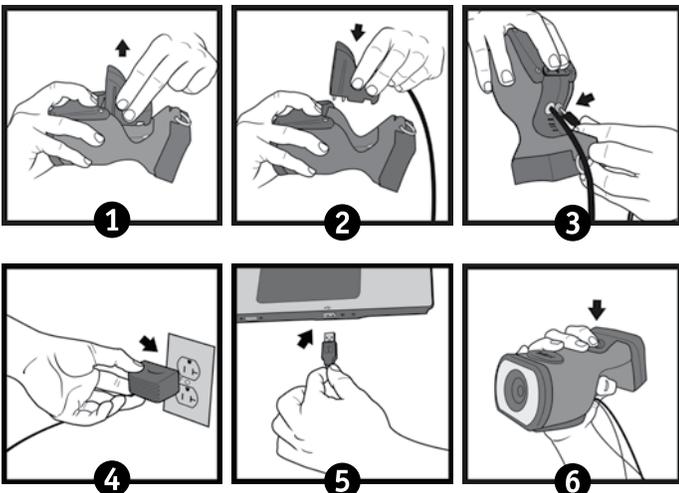


Figure 2

### NOTE

Ensure you use the red data cable assembly that comes with your Edge Thermal Imager. Bullard offers black data cable assemblies for other products. These are not compatible with Edge.

## Use and Operation Power

To turn on your Bullard Edge Thermal Imager, depress the black power button located on top of the unit (Figure 3). Upon pressing the power button, you will hear an audible click, and the thermal imager will display the Edge logo.

A thermal image will appear within a few seconds. This image consists of black, white and gray elements indicating heat signatures of objects and scene dynamics. Warmer elements appear as lighter shades, while cooler elements appear as darker shades.

To turn off power, depress the power button.



Figure 3

## Battery Status Indicator

A battery status indicator, located at the bottom center of the display, indicates the remaining battery charge for the Edge. A full charge is indicated by a full green bar in the battery indicator. During operation, the bar will deplete from left to right, changing to yellow when it reaches 50% charge, and then to red when it reaches 25% charge. At 10% remaining charge, the red bar will flash.

### NOTE

You will periodically observe a momentary freeze in the image. This is normal and is a function of the self calibration shutter. The shutter will activate every 30 seconds to three minutes, depending on the environment.

## White-Hot / Black-Hot Polarity Control and “Nocturnal” Mode

Edge can be switched from the standard white-hot polarity to black-hot polarity. When Edge is first powered-on, it is in white-hot mode, meaning that hotter objects are colored white (Edge will display “WH” in the bottom right corner). To activate the polarity control, locate the rubber cover on the top of the thermal imager. Press the left side of the cover (left button) once to switch polarity to black-hot (Edge will display “BH” in the bottom right corner). Switching polarity can help reveal scene details depending on the situation and environment.

Pressing the left button again activates “Nocturnal” mode (Edge will display “N” in the bottom right corner). With nocturnal mode active, your eyes adjust faster when looking away from the display in low light conditions, allowing you to more quickly acclimate to your environment.

Pressing the left button again will return Edge to white-hot polarity.

## Display Brightness Control

In situations requiring user concealment, Edge provides a display-dimming and display-off capability. When Edge is first powered-on, the display is set to full-on. To dim the display, locate the rubber cover on the top of the thermal imager. Press the right side of the cover (right button) once to dim the display. Press again to turn the display off.

Pressing the right button again will return the display to full-on.

## Custom Startup Graphic

Via myBullard, you can customize the startup graphic which appears when you first power on your Edge. To upload your own image and change the startup graphic on Edge, go to myBullard and select the Edge module. You will see a selection for customizing the startup graphic. Follow the instructions in myBullard to upload a new graphic and change it on Edge.

### ⚠ CAUTION

THE EDGE THERMAL IMAGER IS EXTREMELY SENSITIVE TO INTENSE, RADIANT HEAT SOURCES. NEVER POINT THE EDGE THE SUN OR ANY OTHER SOURCE OF EXTREME RADIANT HEAT, AS THIS COULD SEVERELY DAMAGE THE THERMAL IMAGER.

## Loading/Unloading a Battery

To load a battery (Figure 4), depress and then slide the battery release switch in the direction of the arrow indicated on the button. With the battery release switch engaged, slide the battery into the groove in the cavity located at the bottom of the unit. You will hear an audible “click” when the battery is properly seated. To unload a battery, depress and then slide the battery release switch in the direction of the arrow indicated on the switch. With the battery release switch engaged, grip the battery by its exposed bottom section and pull it away from the unit (Figure 4).



Figure 4

### ⓘ NOTE

If the battery is inserted without first retracting the battery release switch, the battery will not fully seat. If this occurs, remove the battery and follow reload using the instructions above.

The battery latch mechanism prevents accidental battery release upon impact.

## Charging and Maintaining Batteries

### Batteries

If you purchased an Edge Powerhouse with your Edge Thermal Imager, see the enclosed Powerhouse manual for charging instructions. If you purchased an Edge Thermal Imager only, you received a charging base.

To charge a battery in the charger included with your Edge, place it in the charging base (Figure 5). A steady red light will indicate that the battery is charging, while a steady green light will indicate a full charge. The system will detect the full charge and will not overcharge the battery. A completely drained battery takes up to three hours to fully recharge.

As with all batteries, your Bullard rechargeable battery will experience a slow drain of its charge during storage. The amount of drain varies widely based on storage conditions. To ensure adequate battery life, charge each of your batteries every two weeks or, for best performance, keep your Edge and spare battery charged in your vehicle in the Powerhouse vehicle mount charger accessory (part number: ECLPOWERHOUSE). If you are using a Powerhouse charger, follow the instructions contained in the accompanying manual.



Figure 5

### ⚠ WARNING

DO NOT ALLOW THE METAL CONTACTS ON THE BATTERY TO COME IN CONTACT WITH A CONDUCTIVE SURFACE, SUCH AS A METAL TABLE OR ANOTHER BATTERY. WHILE THE EDGE BATTERY IS EQUIPPED WITH PROTECTIVE CIRCUITRY TO PREVENT PRODUCT DAMAGE, CONTACT WITH CONDUCTIVE SURFACES CAN COMPLETE THE BATTERY CIRCUIT AND CAUSE THE BATTERY TO OVERHEAT OR MELT. FAILURE TO OBSERVE THIS WARNING MAY RESULT IN PERMANENT BATTERY DAMAGE, PROPERTY DAMAGE AND/OR SERIOUS INJURY.

### ⓘ NOTE

New, fully charged NiMH batteries will provide a run time of more than four hours. To extend the potential lifespan of your batteries, fully drain and recharge each battery monthly. For best operational results, develop a clear formalized plan for maintaining, charging, and replacing your batteries.

## Retractable Strap

Bullard offers a retractable strap that can be used with the Edge, so that it is always at the ready. The strap, purchased separately, can be mounted to a D-ring on your gear and connected to the D-ring on the Edge.

## Care Instructions

The Bullard Edge Thermal Imager requires little maintenance. For best results, periodically:

- Clean the outside of the unit with mild soap or detergent.
- Wipe the lens with a soft cloth.
- Clean the display with a soft cloth.
- Check screw tightness on cover display.
- Store your thermal imager in the optional truck mount or in the hard case provided.
- All thermal imagers should be maintained using a proper program.

## Cleaning the Lens

The Bullard Edge lens is recessed in an impact resistant bezel. The lens can be cleaned with a soft cloth and soapy water as required.

## Replacing the Video Display Cover Window

The display cover (Figure 6) has a scratch-resistant hard coating to minimize marring. However, if heavy scratching or gouging does occur, the cover window can be replaced. To do this, remove the four Phillips head screws along the sides of the window. Remove the plastic display cover window and replace with a new one (part number: ECLWINDOW). Do not over-tighten.



Figure 6



### ▲ CAUTION

DO NOT USE SOLVENTS OR PAINT THINNERS TO CLEAN YOUR BULLARD EDGE THERMAL IMAGER, AS THEY COULD PERMANENTLY MAR THE SURFACE OR DEGRADE THE PROTECTIVE PROPERTIES OF THE CASING.

DO NOT INTENTIONALLY SUBMERGE THE UNIT UNDERWATER OR SUBJECT THE UNIT TO HIGH PRESSURE WATER. FOLLOW CARE INSTRUCTIONS DESCRIBED ABOVE.

FAILURE TO OBSERVE THESE INSTRUCTIONS MAY RESULT IN PRODUCT DAMAGE. ANY DAMAGE CAUSED BY IMPROPER CARE IS NOT COVERED UNDER WARRANTY.

### ▲ WARNING

DO NOT ATTEMPT TO DISASSEMBLE THE BULLARD EDGE THERMAL IMAGER. DISASSEMBLING THE UNIT VOIDS ALL WARRANTIES. ONLY PARTS THAT USE PHILLIPS HEAD SCREWS ARE FIELD-SERVICEABLE.

THE BULLARD EDGE IS NOT CERTIFIED AS INTRINSICALLY SAFE. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DEATH, SERIOUS INJURY AND/OR PRODUCT DAMAGE.

## Service

If your Bullard Thermal Imager is not performing properly, contact Bullard Customer Service at 877-BULLARD (285-5273). Outside the U.S. and Canada, call 1-859-234-6611.

Describe the problem to the Bullard representative as completely as possible. For your convenience, your representative will try to help you diagnose or correct the problem over the phone. Before returning your Bullard Thermal Imager, you should verify with your representative that the product should be returned to Bullard. Bullard Customer Service will provide you with written permission and a return authorization number.

If the return is a non-warranty repair, a Bullard Customer Service Representative or your local distributor will provide you with a repair invoice estimate. To authorize repair, you must provide a purchase order to your distributor for the amount of the estimate. Once Bullard or a local distributor authorizes your repair, Bullard will issue you a return authorization number so that you can return the unit to Bullard. Bullard will repair the unit and ship it from our factory within 48 business hours. If the cost of repairs exceeds the stated quote by more than 15% or by more than \$100, a Bullard representative will re-estimate your repair and Bullard or your local distributor will contact you for authorization to complete repairs. After repairs are completed and the goods have been returned to you, Bullard or your distributor will invoice you for the actual repair amount.

### ! NOTE

Prior to returning your Bullard Thermal Imager, decontaminate and clean the thermal imager to remove any hazardous or contaminated materials that may have settled on the product during use. Laws and/or shipping regulations prohibit the shipment of hazardous or contaminated materials.

Products suspected of contamination will be professionally decontaminated at the customer's expense.

Returned products will be inspected upon return to the Bullard facility. If the repair is under warranty, Bullard will repair the unit and ship it from our factory within 48 business hours.

## Warranty

Bullard warrants to the original purchaser that the Bullard Edge and all features/accessories installed in the unit as well as battery charging units are free of defects in materials and workmanship under intended use and service for a period of one (1) year from date of activation. Bullard's obligation under this warranty is limited to repairing or replacing, at Bullard's option, articles that are returned within the warranty period and that, after examination, are shown to Bullard's satisfaction to be defective, subject to the following limitations:

- Article must be returned to Bullard with shipping charges prepaid.
- Article must not be altered from its original configuration.
- Article must not have been misused, abused, or damaged in transport.
- Maintenance and field replaceable items, if defective, are covered under warranty for a ninety (90) day period from the date of purchase. These items include:

- Batteries
- Straps
- Display covers
- AC /DC adapters

Bullard provides a limited lifetime warranty on the Edge outer shell. This warrants that the outer shell is free of defects in materials and workmanship under intended use and service for the original purchaser. Bullard's obligation under this warranty is limited to repairing or replacing, at Bullard's option, articles that after examination are shown to Bullard's satisfaction to be defective, subject to the following limitations:

- Article must not be altered from its original configuration.
- Article must not have been misused, abused, or damaged in transport.
- When the outer shell is obsolete and Bullard no longer stocks the part, the limited lifetime warranty will be terminated.

In no event shall Bullard be responsible for damages, loss of use, or other indirect, incidental, consequential or special costs, expenses or damages incurred by the purchaser, notwithstanding that Bullard has been advised of the possibility of such damages.

Any implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to one (1) year from the date of manufacture of this.

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