



## ▲ WARNING

THIS MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS COULD DAMAGE THE PRODUCT AND RENDER IT UNSAFE FOR USE. DEATH OR SERIOUS INJURY COULD OCCUR.

## Table of Contents

1. SAFETY CONSIDERATIONS, GENERAL WARNINGS, AND LIMITATIONS OF USE .....	2	6. MAINTENANCE	
2. TECHNICAL SPECIFICATIONS AND CONFORMITY SPECIFICATIONS .....	3	6.1 Interface Ring – Replacement .....	7
3. INTRODUCTION .....	4	7. PART NUMBERS .....	7
4. INSTALLATION INSTRUCTIONS .....	4	8. TROUBLE SHOOTING .....	7
4.1 FREE-STANDING .....	5	9. LIMITED WARRANTY .....	7
4.2 PERMANENT HARD-MOUNT IN VEHICLE/APPARATUS .....	5	9. CONTACT INFORMATION .....	8
5. USAGE .....	5-6		

## 1. SAFETY CONSIDERATIONS, GENERAL WARNINGS, AND LIMITATIONS OF USE

### ▲ WARNING

THIS MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS COULD DAMAGE THE PRODUCT AND RENDER IT UNSAFE FOR USE. DEATH OR SERIOUS INJURY COULD OCCUR.

### ▲ CAUTION

Failure to connect the XT Series Wireless Charger to a fused, uninterrupted DC power source in your vehicle can damage the product and render it unsafe for use. Damage that occurs due to improper installation voids the Bullard warranty.

### ▲ CAUTION

#### **Use with Vehicle Battery Charging Systems**

Using a vehicle battery charging system (system to charge the batteries on your apparatus) may supply a voltage that can damage the XT Series Wireless Charger. Do not connect the XT Series Wireless Charger to such vehicle battery charging systems. Failure to follow this instruction can damage the XT Series Wireless Charger. Improper use can void the Bullard warranty.

### ▲ CAUTION

#### **Installation regarding Kussmaul Power Management Systems**

Do not connect your Bullard XT Series Wireless Charger input power directly to the Battery Saver port without also installing a Kussmaul battery saver filter. Failure to install a Kussmaul battery saver filter could damage the product. Contact your Kussmaul distributor or visit [www.kussmaul.com](http://www.kussmaul.com) for more information.

### ▲ WARNING




Only use the XT Series Wireless Charger to wirelessly charge Bullard XT Series Thermal Imagers. Failure to follow this instruction and warning can damage the product, render it unsafe for use, and voids the Bullard warranty. Death or serious injury can result.

### ▲ WARNING

Only replace the fuse with an equivalent 5-Ampere fuse. NEVER replace this fuse or any fuse with one of a higher current rating than designed. Failure to follow all instructions and warnings could damage the product and render it unsafe for use. Death or serious injury could occur.

# Bullard XT Series Wireless Charger User Manual

## 2. TECHNICAL SPECIFICATIONS AND CONFORMITY CERTIFICATIONS

	<p>This XT Series Wireless Charger complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</p> <p>NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> <li>—Reorient or relocate the receiving antenna.</li> <li>—Increase the separation between the equipment and receiver.</li> <li>—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li> <li>—Consult the dealer or an experienced radio/TV technician for help.</li> </ul>
	<p>This XT Series Wireless Charger complies with the WEEE Directive marking requirements. The affixed label indicates that you must NOT discard this electrical/electronic product in domestic household waste.</p> <p>Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste. <a href="mailto:recycle@bullard.de">Email recycle@bullard.de</a> for recycling information.</p> <p>Electrical and electronic equipment (EEE) contains materials, components and substances that may be hazardous and present a risk to human health and the environment when waste electrical and electronic equipment (WEEE) is not handled correctly.</p> <p>Equipment marked with the below crossed-out wheeled bin is electrical and electronic equipment. The crossed-out wheeled bin symbol indicates that waste electrical and electronic equipment should not be discarded together with unseparated household waste but must be collected separately.</p> <p>For this purpose, all local authorities have established collection schemes under which residents can dispose of waste electrical and electronic equipment at a recycling center or other collection points, or WEEE will be collected directly from households. More detailed information is available from the technical administration of the relevant local authority.</p> <p>Users of electrical and electronic equipment must not discard WEEE together with household waste. Residents must use the municipal collection schemes to reduce adverse environmental impacts in connection with disposal of waste electrical and electronic equipment and to increase opportunities for reuse, recycling, and recovery of waste electrical and electronic equipment.</p> <p>WEEE Compliance: for your recycling needs please contact <a href="mailto:info@bullard.de">info@bullard.de</a>  WEEE Einhaltung: Fuer Ihren Recyclingbedarf wenden Sie sich bitte an <a href="mailto:info@bullard.de">info@bullard.de</a></p>
	<p>Bullard's XT Series Wireless Charger complies with the requirements set forth in the regulation.</p> <p><b>California Proposition 65</b> ⚠️ <b>WARNING:</b> Cancer and Reproductive Harm- <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.</p> <p><b>Proposition de la 65</b> ⚠️ <b>ADVERTISSEMENT:</b> Cancer et Troubles de l'appareil reproducteur - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.</p>
<p>IEC (International Electrotechnical Commission) Certification</p>	<p>This XT Series Wireless Charger was tested for conformity using IEC certification standards. The IEC is a global, not-for-profit membership organization, whose work underpins quality infrastructure and international trade in electrical and electronic goods. The IEC brings together more than 170 countries and provides a global, neutral and independent standardization platform to 20 000 experts globally. It administers 4 Conformity assessment systems whose members certify that devices, systems, installations, services and people work as required.</p> <p>IEC 61000-6-3:2006 Test Report Number: 102585069LEX-001g  IEC 61000-6-4:2006 Test Report Number: 102585069LEX-001g  IEC 61000-6-1:2005 Test Report Number: 102585069LEX-001g</p>



Technical Specifications	TMax Input Voltage: 36V Max Input Current: 1.5A Operating Temperature: -10°C to 70°C Storage Temperature: -40°C to 85°C Replaceable Fuse: 5x15mm or 5x20mm 5-Ampere glass fuse rated 125V
--------------------------	---

**▲ WARNING**

THIS MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS COULD DAMAGE THE PRODUCT AND RENDER IT UNSAFE FOR USE. DEATH OR SERIOUS INJURY COULD OCCUR.

### 3. INTRODUCTION

Your Bullard XT Series Thermal Imager is equipped with a sealed, internal long-life lithium-ion battery pack as well as advanced wireless charging technology for use with the optional XT Series Wireless Charger.

### 4. INSTALLATION INSTRUCTIONS

The XT Series Wireless Charger utilizes wireless charging while also being designed to be mounted securely in accordance with NFPA 1901 clause 14.1.10.2 and DIN EN 1846-2 clause 5.1.2.2.2 when storage of the Imager in a vehicle is required. Additionally, although the XT Series Wireless Charger is designed for permanent vehicle installation, you may also choose to use this unit in a free-standing manner. Free-standing use is not approved for vehicles.

The XT Series Wireless Charger is designed to operate on an input voltage of 12 to 36 VDC. Some vehicular charging systems and other aftermarket products may not supply a voltage that meets these criteria. Connect the XT Series Wireless Charger to a fused, uninterrupted DC power source in your vehicle.

**▲ CAUTION**

Failure to connect the XT Series Wireless Charger to a fused, uninterrupted DC power source in your vehicle can damage the product and render it unsafe for use. Damage that occurs due to improper installation voids the Bullard warranty.

**▲ CAUTION**

**Use with Vehicle Battery Charging Systems**

Using a vehicle battery charging system (system to charge the batteries on your apparatus) may supply a voltage that can damage the XT Series Wireless Charger. Do not connect the XT Series Wireless Charger to such vehicle battery charging systems. Failure to follow this instruction can damage the XT Series Wireless Charger. Improper use can void the Bullard warranty.

**▲ CAUTION**

**Installation regarding Kussmaul Power Management Systems**

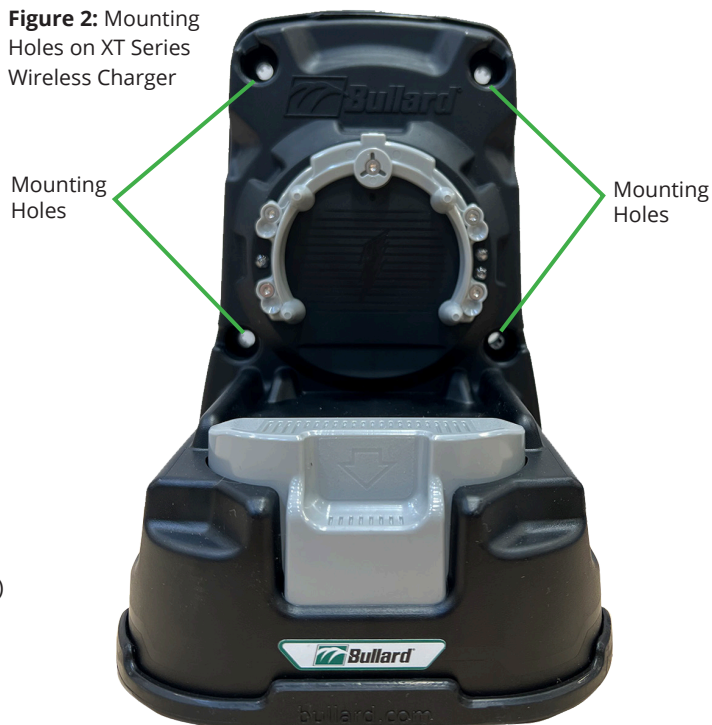
Do not connect your Bullard XT Series Wireless Charger input power directly to the Battery Saver port without also installing a Kussmaul battery saver filter. Failure to install a Kussmaul battery saver filter could damage the product. Contact your Kussmaul distributor or visit [www.kussmaul.com](http://www.kussmaul.com) for more information.

# Bullard XT Series Wireless Charger User Manual

**Figure 1:** Power input location for XT Series Wireless Charger when in free standing manner.



**Figure 2:** Mounting Holes on XT Series Wireless Charger



## 4.1 FREE-STANDING

To install the XT Series Wireless Charger in a free-standing manner, select a convenient tabletop location to place the unit and connect the power supply (XTCHARGEPOWER) to a nearby AC power outlet. Insert the power supply's output power pin into the receptacle on the right side of the charger near the back (Figure 1). When power is first applied to the charger, all three charging lights will briefly illuminate as a bulb check cycle, after which the WHITE LIGHT will remain illuminated. This indicates the XT Series Wireless Charger is powered on and ready for use.

## 4.2 PERMANENT HARD-MOUNT IN VEHICLE/APPARATUS

To install the XT Series Wireless Charger in a vehicle, select a convenient location, leaving sufficient clearance above and in front of the charger for removal and reseating of the thermal imager. It is suggested to leave sufficient clearance below the charger as well. Before installation, the vehicle should be turned off. For safety measure, disconnect the DC battery prior to installation. During installation connect the red wire to the positive terminal and the black wire to the negative terminal of the DC battery. A mounting template is included with the charger as a reference for clearance requirements and mounting hole spacing. Mount the charger using the included (4) 5/16" selftapping hex screws. No drill holes are required because of this type of screw

### ▲ WARNING

Failure to disconnect the vehicle battery prior to installation and follow all installation instructions could cause death or serious injury. Improper installation could also damage the product and void the Bullard warranty.

## 5. USAGE

### ▲ WARNING

Only use the XT Series Wireless Charger to wirelessly charge Bullard XT Series Thermal Imagers. Failure to follow this instruction and warning can damage the product, render it unsafe for use, and voids the Bullard warranty. Death or serious injury can result.

When power is first applied to the XT Series Wireless Charger, (via either hardwiring to a vehicle or using the optional AC power adapter) all three charger lights will briefly illuminate as a bulb check cycle, after which the WHITE LIGHT will remain illuminated. This indicates the charger is powered on and ready for use. To charge your XT Series Thermal Imager place the imager into the charger with the display side up and the bottom of the imager facing the long side of the charger. Ensure that the four pins of the Interface Ring align with the four holes on the bottom side of the thermal imager. When seated correctly, the release button will pop up and lock, and a BLUE LIGHT will illuminate on the right side of the charger. This indicates a connection with the imager. If there is a problem with the charger or the connection with the imager, the charger will illuminate an AMBER LIGHT, located beneath the BLUE LIGHT. In this event, remove and attempt to re-seat the imager. See Figure 3 and Table 1 on the following page.

**Figure 3:** XT Series Wireless Charger Light Meanings and locations



**Figure 4:** Removing your imager



To remove the imager from the charger, press the release button down and keep in depressed position, then remove the imager (Figure 4).

**Table 1: XT Series Wireless Charger Light Meanings**

Charger Light Color	Meaning
White	Charger is receiving power
Blue	Imager is connected
Amber	Error

When the connection has been verified and the battery is charging, the imager's power button will pulse GREEN (for newer models) or RED (for older models). When fully charged, the power button will illuminate steady GREEN.

If the power button does not illuminate with a pulsing GREEN, but instead a pulsing ORANGE, remove and re-seat the imager.

If the power button does not illuminate with a pulsing GREEN, but instead a flashing that alternates between ORANGE and RED (for newer models), the imager temperature is outside of the charging temperature range. Take the imager off the charger and let it cool at an ambient temperature and then place it back on the charger.

See Table 2 below for more information regarding the imager power button sequences.

**Table 2 Imager Power Button Light Sequences by Model**

	State/Model	NXT/QXT	NXT Pro/QXT Pro/DXT
<b>Imager Power Button Light Sequence</b>	<b>Charging</b>	Pulsing Red	Pulsing Green
	<b>Fully Charged</b>	Solid Green	Solid Green
	<b>Error</b>	Flashing Orange	Flashing Orange
	<b>Battery Over or Under Temp</b>	2 orange flash 2 red flash repeating	Orange/Red Alternating Flashing

If the issue persists, contact Bullard Customer Service.

# Bullard XT Series Wireless Charger User Manual

## 6. MAINTENANCE

- Ensure the charger is working properly. When seated correctly, the release button will pop up and lock.
- Verify charger and associated cables are functioning / stored properly.
- Using a damp cloth, clean off debris.
- Check for cracks, holes, or other damage to the unit's outer shell.
- Check tightness of mounting screws.
- Inspect the Interface Ring

### 6.1 Interface Ring – Replacement

The Interface Ring on the XT Series Wireless Charger is user-replaceable in the event of damage (XTCHARGERRING). This kit comes with a new ring and mounting screws. A TORX® T8 bit is required to operate these screws. Remove the five screws, then pull the old interface ring away from the charger and replace it with the new one.

#### NOTE:

If the screw holes become worn, alternative holes are provided and may also be used to secure the Interface Ring

## 7. PART NUMBERS

- XTTRUCKMOUNT – XT Series Wireless Charger (without AC adapter)
- XTCHARGEPOWER – AC Power Supply with Interchangeable Blades
- XTCHARGERRING – XT Truck Mount Interface Ring Replacement Kit

## 8. TROUBLESHOOTING

If the XT Series Wireless Charger is correctly wired to a vehicle but the WHITE LIGHT is not illuminated, it is possible that the fuse has blown. Bullard recommends disconnecting power to your XT Series Wireless Charger before inspecting and replacing the fuse. Locate and open the fuse holder which is on the red wire near the unit to inspect the fuse. If the fuse has blown, it can be replaced with a 5x15mm or 5x20mm 5-Ampere glass fuse, commonly available at most automotive parts suppliers. If the fuse blows repeatedly, even after replacement, this indicates a fault with either the vehicle or the charger. In this event, immediately contact a qualified vehicle technician or Bullard's Customer Service.

#### WARNING

Only replace the fuse with an equivalent 5-Ampere fuse. NEVER replace this fuse or any fuse with one of a higher current rating than designed. Failure to follow all instructions and warnings could damage the product and render it unsafe for use. Death or serious injury could occur.

## 9. LIMITED WARRANTY

**This section contains valuable information about the type of warranty, the purchaser's obligations, warranty coverage, limitations, exclusions, and other terms and conditions that may affect Bullard's obligations under this warranty.**

Bullard warrants to the original purchaser that the XT Series Wireless Charger is free of defects in materials and workmanship under intended use and service for a period of two years from the date of manufacture. This warranty is not transferable.

Bullard's obligation under this warranty is only to repair or replace, at Bullard's discretion, items returned within the warranty period and determined by Bullard to be defective, subject to the following limitations:

- a) the Item must be returned to Bullard with shipping charges prepaid;
- b) the Item must not be altered from its original configuration; and
- c) the item must not have been misused, abused, or damaged in transport.

#### WARRANTY EXCLUSIONS DISCLAIMERS

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER BULLARD NOR ITS DISTRIBUTORS SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, BUSINESS INTERRUPTION, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

THIS LIMITED WARRANTY EXPRESSLY EXCLUDES ROUTINE PRODUCT MAINTENANCE AND SOFTWARE UPDATES. ANY MISUSE, ALTERATION, MODIFICATION, REPAIR, ATTEMPTED REPAIR, IMPROPER MAINTENANCE, NEGLIGENCE, ABUSE OR FAILURE TO FOLLOW THE PRODUCT INSTRUCTIONS, DAMAGE OR ANY OTHER IMPROPER CARE OR HANDLING OF THE PRODUCT VOIDS THIS LIMITED WARRANTY.

The foregoing is the only warranty made by Bullard. No representative, dealer or any other person is authorized to make any warranty, representation, condition or promise on behalf of Bullard with respect to this product. No terms or conditions other than those stated herein or provided by law, and no agreement or understanding, oral or written, in any way purporting to modify this warranty shall be binding upon Bullard, unless made in writing and signed by an authorized employee of Bullard.



# Bullard XT Series Wireless Charger User Manual

## CONTACT BULLARD

If you have any questions about service or warranty, or your XT Series Wireless Charger is not performing properly, contact your local distributor or your nearest Bullard Customer Service.

Region	Contact
United States and Canada	+1.877.285.5273 <a href="mailto:info@bullard.com">info@bullard.com</a>
Europe	+49.2642.9999.80 <a href="mailto:info@bullard.de">info@bullard.de</a>
Asia-Pacific	+65-6745-0556 <a href="mailto:bullardasia@bullard.com">bullardasia@bullard.com</a>
Other Regions	+1.859.234.6616 <a href="mailto:info@bullard.com">info@bullard.com</a>

**Bullard Center**  
2421 Fortune Drive  
Lexington, KY 40509 • USA  
877.BULLARD (285.5273)  
Tel: +1.859.234.6616

**Americas Operations**  
1898 Safety Way  
Cynthiana, KY 41031 • USA  
877.BULLARD (285.5273)  
Tel: +1.859.234.6616

**Bullard GmbH**  
Dieselstrasse 8a  
53424 Remagen • Germany  
Tel: +49.2642.999980

**Bullard Asia Pacific**  
51 Changi Business Park  
Central 2  
#03-04 The Signature  
Singapore 486066  
Tel: +65.6745.0556