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EXPLORER *XTSE*
User's Guide



Congratulations on your purchase of the Tronix Explorer XT SE!

The technically superior Tronix Explorer XT SE, rated at 350 Watts continuous and at 1200 Watts peak power, is designed to provide power to most flash and power pack units. It makes your studio lights work on location - with faster recycling time, more power and better performance.

- **Power and Reliability**
 - 1200 Watts peak power, recommended up to 2400 Ws
 - Provides a clean sine wave from a 24 V DC source
 - Efficient circuit design that generates almost a thousand full power pops for 300 Ws flash units
- **Flexibility and Mobility**
 - Auto-volt/Global charging feature (100 V - 240 V AC, 50/60 Hz)
 - 14 V DC car battery charger and Auxiliary Battery port for 24 V external battery pack
 - Added mobility with the Tronix Explorer bag
 - It can also be used for powering battery chargers, laptops, printers, etc.
- **Safe and Easy to Use**
 - Plug and play
 - Battery power and charging indicators
 - Switch over from battery to external battery pack

Service and Warranty ◀◀◀

The Tronix Explorer XT SE is covered by a one-year warranty starting from the date of purchase. From that date, the product should be free of any defect in material and workmanship and it will function in accordance to its stated performance.

Within this period, Innovatronix Inc. will repair or replace defective parts. This warranty only covers failures due to manufacturing defects and workmanship. Hence, breakdown of Explorer XT SE due to gross abuse and normal wear and tear is not covered in this warranty.

There are no warranties by use except as stated therein. For unsafe and/or faulty repairs, Innovatronix Inc. and/or sellers shall not be liable by such cases. Any alternation made to this product by unauthorized service technicians are the sole responsibility of the owner. Maximum liability for any breach of this agreement or other claim to the use of this product shall not exceed the purchase price of the product by the customer.

Warranty registration is not required. Warranty is applicable if and only if the product is used under normal conditions and for its intended purpose.

IMPORTANT!

Limited Warranty on SLA (Sealed-Lead Acid) Batteries

Only items with manufacturing defects should be returned for repair, replacement or refund. If the product returned was found opened, altered or modified in any way, the product warranty is voided.

SLA battery set is not included in the warranty. Battery performance depends on charge discharge cycle under the customer's use. In addition, SLA batteries must be properly maintained by keeping it charged or charging every after usage. Otherwise, if the battery gets dried up, or diminished, hence the product warranty on battery is voided.

Product returns and/or refund policies may differ on every vendor. Contact your vendor for their customer satisfaction guarantee and warranty programs.

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Important Safety Instructions ◀◀◀

Save this User's Guide. Contents of this user's guide should be followed during installation, operation and maintenance of Explorer XT SE.

General Safety

- Do not expose Explorer XT SE to dust, moisture, liquids, rain or snow.
- Do not block ventilation openings of Explorer XT SE. Overheating may occur. Do not place Explorer XTSE in a compartment with zero clearance.
- Not recommended attachments, when used with Explorer XT SE, may result in risk of fire, electrical hazard or injury.
- Periodically observe the status of the LED indicators to ensure that Explorer XT SE works as intended.

Electrical Safety

- Always connect Explorer XT SE to a grounded outlet. The outlet to which Explorer XT SE is connected must be in close proximity and must be easily accessed.
- Flash units and other supported equipment must be properly connected to Tronix Explorer XT SE. Secure working connection and socket from outlet to the inverter.
- Before doing any maintenance, switch off and unplug all attachments connected to Explorer XT SE.
- Explorer XT SE incorporates multiple power sources. Connect only one of these sources at a time. Though not posing any risk, simultaneous connection of any of these sources is not recommended. Disconnect all power cords to completely remove power from the unit.
- If the external flexible cord of the unit is damaged, it shall be replaced by a cord available from the manufacturer.

Battery Safety

Warning!

Contains potentially hazardous voltage.
Do not make any changes or modifications to Explorer XT SE unless otherwise specified.
Explorer XT SE has no user-serviceable parts.

- **Caution:** Do not place the battery near open flame or heat. The battery may explode.
- **Caution:** Do not open the battery. The battery contains chemicals that are harmful to the skin and eyes. The battery may also emit dangerous and explosive gases.
- **Caution:** To avoid injury due to electrical hazard, remove metal accessories such as wristwatch and jewelry when replacing battery. Use properly insulated tools and handles.
- **Caution:** Explorer XT SE uses 12 V DC, 7 Ah valve-regulated sealed lead-acid (VRSLA) batteries, Replace batteries with the same type as originally installed in Explorer XT SE.
- **Caution:** Observe proper polarity when connecting the batteries. Incorrect polarity may cause electrical hazards or damage to Explorer XT SE.

Dispose replaced batteries properly. Deliver the battery to its manufacturer for recycling.

Important!

Innovatronix Inc. does not recommend Explorer XT SE for use in life support equipment, where malfunction of the product will significantly degrade effectiveness of such equipment.

Examples of life support equipment are, but not limited to, the following: pacemakers, blood pumps, ventilators and dialysis systems.

Getting Started ◀◀◀

What's in the box?*

- 1 x Tronix Explorer XT SE Main Inverter unit
- 1 x Power Cord
- 1 x Universal Adapter (only for 115 V models)
- 1 x Car Battery Charger
- 1 x Carrying Case
- 1x Tronix Explorer XT SE User's Manual

*Contact Tronix customer care service (or seller) if package is deemed incomplete.

Installation ◀◀◀

1. Switch off Explorer XT SE.
2. On the rear panel, plug the power cord to a 100 V to 240 V mains outlet.

The green Charging LED indicator should blink. This indicates that Explorer XT SE is charging.

If Explorer XT SE is being charged the first time, charge the unit for 12 to 15 hours. This ensures optimum battery performance. Succeeding charges would take 7 to 9 hours.

Note: The main outlet to which Explorer XT SE is connected must be in close proximity and must be easily accessed.

Explorer XT SE has the following power sources: AC mains outlet, car battery input and auxiliary battery. Only connect one of these sources at a time. Though not posing any risk, simultaneous connections of any of these inputs are not recommended.

Operation ◀◀◀

1. Ensure that the Explorer XT SE is charged according to installation instructions.
2. Set up necessary lightning equipment. Make sure that the unit is turned off.
3. On the front panel, connect the flash unit's plug to the Explorer XT SE's socket.
4. Turn on the Explorer XT SE unit by switching the power to "I" position.
The battery level indicators signals the power left on the inverter's battery.
5. The Tronix Explorer XT SE is expected to fully operate by now, supplying power to the flash units.

Note: Using of modeling lamps in the flash units will prolong recycle time and will easily discharge the battery. Therefore, it is not advisable to use Explorer XT SE in supplying power to modeling lights.

Below is a table of the status LEDs of Explorer XT SE and its corresponding indication:

Status	Indication
Charging	Green Charging LED indicator is blinking
Battery full	Green High LED indicator is lit
Battery at half power	Yellow Mid LED indicator is lit
Battery low	Red Low LED indicator is lit

Aside from its normal use of powering strobes and flashes, the battery of Explorer XT SE will be discharged if any of the following occurs:

- Explorer XTSE is switched on at no load. The battery of Explorer XT SE will be discharged after ~ 7 hours.
- Explorer XTSE is switched off at no load. The battery of Explorer XT SE will be discharged after 200 days. Thus, when not in use, it is recommended that Explorer XT SE should be plugged in to a 100 V to 240 V AC mains outlet or to a 14 V DC outlet.
- Even when switched off, the internal circuit of Explorer XT SE still consumes power. A totally discharged battery will severely affect its useful life.

Should Explorer XT SE run out of power and no power source is present, the Tronix Auxiliary Battery Pack can be connected to Explorer XT SE. When the Auxiliary Battery Pack is connected, Explorer XTSE bypasses its internal battery and draws power from the battery pack. Tronix Auxiliary Battery Pack is sold separately. More information can be obtained from the Innovatronix website (see *Contact Information*).

Charging ◀◀◀

1. Switch off Explorer XT SE.
2. Explorer XT SE can be charged through the following methods:
 - Main Supply
 - Plug the power cord to a 100 V to 240 V AC mains outlet. (see Installation)
 - Except for the initial charging, Explorer XT SE should be fully charged after 7 to 9 hours.
 - When the green Charging LED indicator stopped blinking (LED stays on), the battery is fully charged.
 - 14V DC Outlet
 - Plug Explorer XT SE to a 14 V DC outlet. A car cigarette lighter socket would be an example. Use the appropriate adapter.
 - Note that Explorer XTSE can not be fully charged when this method is used.

Tip: You can leave Explorer XTSE plugged in even after it is fully charged. Explorer XT SE uses trickle charging method. If the cord is still plugged after the battery reached full charge, the battery will not be damaged in any way. Trickle charging also maintains the battery's optimum life span.

When the unit is accidentally discharged in full (unit was left-on for a long time even after low battery shut down), slight abnormality may be observed when trying to recharge the unit. When charged, unit may falsely show that battery is full. Just repeatedly plug and unplug the unit every 30 minutes until battery recovers and the indicator starts to blink.

Maintenance ◀◀◀

- For optimum performance, keep the battery fully charged. The green LED indicates a fully charged battery. On the other hand, the red LED indicates a drained battery. Thus, make sure to regularly charge Explorer XT SE for longer useful life.
- Switch off the unit when not in use. Leaving Explorer XT SE on without using will severely drain the battery.
- Use a dry cloth when cleaning the unit. Do not use any liquids or detergents.
- Coil cables when not in use. Loose cables may cause accidents.

Battery Replacement ◀◀◀



Caution!

Risk of electric shock. Extreme caution should be observed at all times. Before replacing the batteries, disconnect all cords and wait 30 minutes before proceeding with the repair. Remove all metal objects attached to the body such as jewelry, wristwatch, and the like. Use properly insulated tools and handles. Strictly follow the instructions to avoid further damage and injury.

1. Turn off the unit.
2. Remove the screws of the cover located on the side and top portion of the unit.
3. Carefully disconnect the battery terminals located at the boost converter.
4. Disconnect the battery cord (S cord) located in the charger board, this is to avoid short circuit.
5. Remove the charger board located at the sides of the battery.
6. Unscrew the bolts found under the battery casing.
7. Remove the battery bracket and the battery.
8. Remove the boost converter board found on the other side.
9. Remove the screws and pull out the battery out of the casing.
10. Securely place the battery by sliding it to the battery casing. Tighten the screws and reinstall the boost converter board.
11. Turn to the other side and make sure to place the batteries inside the metal closure first. Reinsert the battery screws and reinstall the charger board before connecting the battery terminals and conductor.

Note: Ensure that the battery terminals do not touch the heat sink. For safety, cover the area of the heat sink where the battery terminals will pass during battery replacement.
12. Reinsert cover and tighten all screws.

Dispose replaced batteries properly. Deliver the battery to its manufacturer for recycling or observe proper battery disposal.

Note:

Ensure the battery terminals do not touch the heat sink. For safety, cover the area of the heat sink where the battery terminals will pass during battery replacement.

Do not interchange the polarity of the wires. Black wire is for the negative (–) terminal and red wire is for the positive (+) terminal.

Troubleshooting ◀◀◀

Refer to the table below to address minor problems regarding installation and operation of Tronix Explorer XT SE. For problems that cannot be solved using the table, contact Innovatronix Customer Service (see Contact Information)

Problem	Possible Cause	Solution
No power	Battery empty	Charge Battery; Plug Explorer XT SE to a 100 V to 240 V AC outlet or to a 14 V DC supply. If Explorer XT SE does not switch on after charging, contact Tronix Customer Service (see Contact Information)
	Connected to AC outlet	Explorer XT SE does not provide power when switched on while connected to an AC outlet. Disconnect the AC cord before using.
Not charging	Not plugged to supply	Plug Explorer XT SE to a 100 V to 240 V AC outlet or to a 14V DC supply
	No power from outlet	Ensure power is in the mains outlet. If Explorer XT SE still does not charge, contact Tronix Customer Service (see Contact Information)
Lightning equipment not working	Battery not charged	Charge Battery; Plug Explorer XT SE to a 100 V to 240 V AC outlet or to a 14V DC supply
	Lighting equipment malfunction	Contact manufacturer of lighting equipment
	Incompatible equipment	Lighting equipment not compatible with Explorer XT SE

Frequently Asked Questions ◀◀◀

How many pops can I expect with one full charge?

The number of pops will depend on the type of flash unit and the power loaded to Explorer XT SE. Small loads will produce greater number of pops and faster recycling time compared to large power loads.

What are the things to watch out when using Explorer XT SE?

Just like any portable power source from batteries, the recycling time of Tronix Explorer XT SE for flash units and power packs can never be faster than the recycling time when a studio light or power pack is plugged directly from a mains outlet or power line. In addition, modeling lights should be switched off as continuous load drains the battery at a higher rate. It should also be recharged after each use and should not be kept stored for more than 3 months without using or charging. Similar to other products that use lead-acid batteries, a discharged battery for a few months will severely affect its performance and lifetime.

What is the expected life span of the Explorer battery? How much would be the replacement battery?

Tronix Explorer XT SE's batteries are rated at 300 charge-discharge cycles or about a year of everyday use or the battery's actual usage. Should the batteries be needed to be replaced, use only batteries provided by Tronix or with the same specification (see Technical Specifications). Tronix Explorer XT SE uses two 12 V, 7 Ah Valve-regulated lead-acid batteries. Other batteries may not be suitable to Tronix Explorer XT SE and may cause electrical hazard or injury.

What are the Customer Satisfaction Guarantee and/or Warranty?

As stated in Terms of Use, only items with manufacturing defects should be returned for a full refund if purchased within the last 30 days and will be replaced as soon as possible or in about 10-15 days. All costs are charged to Innovatronix Inc. It also carries a 30-day satisfaction guarantee. This program applies only to units directly purchased from Innovatronix. For units purchased from a retailer or third party vendor, refer to their guarantee and warranty programs or contact us for authorized service centers in your country

Are there any maintenance tips on storing Explorer XT SE?

The unit should be switched off when not in use. Leaving Tronix Explorer XT SE on and not in use will severely damage the battery. Its battery can be left plugged even after it is fully charged. The product uses trickle-charging technique so the battery would not be over charged. This practice also maintains the battery's optimum life span.

There are 2 models. How do I know which one will I need?

The model denotes the voltage output of the Tronix Explorer XT SE. Select the model which matches the input voltage of your studio lights or power packs. For example:

- The Tronix Explorer XT SE 115-60 models are used by photographers in North America (United States and Canada).
- The Tronix Explorer XT SE 230-50 models are used by photographers in Europe, Middle East, Australia, New Zealand and the rest of Asia.




How do I know if my strobe or power pack is compatible with Tronix Explorer XT SE?

Why not all strobes and power packs are compatible with Tronix Explorer XT SE? Tronix Explorer XT SE is compatible to more digital strobes due to its increased power rating. The newer Tronix Explorer XTSE is compatible to digital and most bi-voltage flash units. However, compatibility to all strobes and power packs is not guaranteed due to differences in design of strobes and power packs between brands.

In a few cases, digitally controlled strobes will not be compatible with Tronix Explorer XT SE. This is because after a flash is fired, the capacitors inside the strobe will draw a large inrush current. Tronix Explorer XT SE cannot adequately provide such current. Thus, for a few seconds, the voltage output will be less than adequate.

This is not a problem for analog flash, however. Analog flash can tolerate this voltage drop. For digital flash units, this will probably cause a reset of its settings to power up stage. Though this case is not damaging to the flash or Tronix Explorer XT SE, the flash will just not work properly.

Technical Specifications ◀◀◀

Feature	Specifications	
Model	115 - 60	230 - 50
Output		
Power	440 VA 350 W max. at 0.8 pf	
Voltage	115 V ~	230 V ~
Frequency	60 Hz	50 Hz
Current	3 A	1.5 A
Waveform	Pure Sine Wave	
Sockets	NEMA 5	Schuko / Universal
Input		
AC Input		
Voltage	100 V – 240 V ~	
Frequency	50 / 60 Hz	
Current	460 – 220 mA (drained battery) 40 – 20 mA (full battery)	
Connector	IEC C14	
Auxiliary Battery		
Voltage	24 – 28 V 	
Current	20 A	
Connector	Neutrik powerCON NAC3MPA	
DC Input		
Voltage	12 – 14 V 	
Current	500 mA	
Connector	Coaxial	
Battery		
Type	Maintenance-free, Valve regulated lead acid (x2)	
Voltage	12 V  (per battery)	
Capacity	7 Ah (per battery)	
Charging Time	7 – 9 hours	
Runtime	6 – 8 hours at no load	
Indicators		
Visual	Green, yellow and red for battery status; Green LED for charging status	
Physical		
Dimensions	15 cm x 20 cm x 37 cm	
Net Weight	8.2 Kg. (18 lb.)	
Operating Temperature	-15 °C – 70 °C (5 °F – 158 °F)	

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