



USER'S GUIDE

(For Tronix Explorer XT / Tronix Explorer XT SE)

Capture the light, get images beyond boundaries...
TRONIX EXPLORER XT

Congratulations on your purchase of the Tronix Explorer XT!

The technically superior Tronix Explorer XT, 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 or when power is not available - with faster recycling time, more power and better performance.

Power and Reliability

- 1200 Watts peak power, recommended up to 2400Ws
- Provides a clean sine wave from a 24V source
- Efficient circuit design that generates almost a thousand full power pops for 300Ws flash units

Flexibility and Mobility

- Auto-volt/Global charging feature (100V-240V_{AC})
- 14V DC car battery charger and Auxiliary Battery port for 24V external battery pack
- Added mobility with the optional 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
- Short circuit switch over from battery to external battery pack

The convenience and reliability that Tronix Explorer XT boasts would be reason enough to bring this gadget wherever a photographer travels and goes for work, and needs it most.

Thank you for your purchase of this product. We hope you will enjoy the product as much as we enjoyed developing it to serve your needs.

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Important Safety Instructions

SAVE THESE SAFETY INSTRUCTIONS AND USER'S GUIDE. These Safety Instructions should be followed during installation, operation and maintenance of Tronix Explorer XT.

General Safety

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

Electrical Safety

- Always connect Tronix Explorer XT to a grounded outlet. The socket outlet to which the product 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. As with Tronix Explorer XT's connection to the socket outlet, connections of the equipment to the product must be easily accessed.
- Always turn OFF and unplug Tronix Explorer XT before doing any maintenance.
- Tronix Explorer XT incorporates multiple power sources. Only connect ONE of these sources at a time. Though not posing any danger, simultaneous connection of any of these sources is NOT recommended. Disconnect ALL power cords to completely remove power from the unit.

Battery Safety



Warning: Contains potentially hazardous voltages. Do NOT make any changes or modifications to Tronix Explorer XT unless otherwise specified. Except the batteries, Tronix Explorer XT has no serviceable parts.

- CAUTION: Do NOT place the batteries near open flames or heat. The batteries may explode.
- CAUTION: Do NOT open the batteries. The batteries contain chemicals that are harmful to the skin and eyes. The batteries can also emit dangerous or explosive gases.
- CAUTION: To avoid injury due to electrical hazard, remove metal accessories such as wristwatches and jewelries when replacing batteries. Use properly insulated tools and handles.
- CAUTION: Tronix Explorer XT uses 12V_{DC}, 7Ah Sealed Lead-Acid batteries. Replace batteries with the same type as originally installed in Tronix Explorer XT.
- CAUTION: Observe proper polarity when connecting the batteries. Incorrect polarity may cause electrical hazards or damage to Tronix Explorer XT.

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

IMPORTANT: Innovatronix Inc. does NOT recommend the Tronix Explorer XT 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

Shipping Materials

Please check if the shipped package contains the following:

- 1 Tronix Explorer XT unit
- 1 Power Cord
- 1 Universal Adapter (only for 115VAC/60Hz model)
- 1 14V_{DC} Car Battery Charger
- User's Guide (this document)

Contact Tronix Customer Service in case any item is missing in the package (see *Contact Information*).

Installation

1. Make sure that the Tronix Explorer XT is switched OFF.
2. Always place the Tronix Explorer XT in an environment there is no excess of heat, dust and moisture.
3. Plug the power cord to a 100V to 240V AC mains supply. On the front panel, the **green** *Charging* LED indicator should blink. This indicates that the Tronix Explorer XT is charging.

If Tronix Explorer XT is being charged the first time, charge the unit for 12 to 15 hours. This step ensures optimum battery performance. Succeeding charges would only take 3 to 5 hours.

NOTE: The socket outlet to which Tronix Explorer XT is connected must be in close proximity and must be easily accessed.

Tronix Explorer XT incorporates multiple power sources: AC Input, DC Input and Auxiliary Battery. Only connect ONE of these sources at a time. Though not posing any danger, simultaneous connection of any of these sources is NOT recommended.

Operation

1. Make sure that Tronix Explorer XT is charged as instructed in *Installation*.
2. Set up the necessary lighting equipment.
3. Connect the plug of the flash unit being used to one of the Tronix Explorer XT's sockets. For 115VAC/60Hz models, a universal adapter is

supplied.

NOTE: The connections between the flash units and the Tronix Explorer XT must be in close proximity and must be easily accessed.

4. Turn on Tronix Explorer XT by switching the power switch to “|” position. The Battery Level Indicators (**green Hi**, **yellow Med** and **red Low**) indicate the amount of power left in the battery. The Tronix Explorer XT is now supplying power to the flash units.
5. Test the flash units. If desired lighting requirements are set, proceed with the photo shoot.

NOTE: Using the modeling lamps in the flash units will prolong recycling charging time and will easily discharge the battery. Therefore, it is advised not to use modeling lights when using the Tronix Explorer XT as power source.

Below is a table of Tronix Explorer XT LEDs’ status and its corresponding indication:

Status	Indication
Charging	Green Charging LED indicator is BLINKING
Charging - Battery Full	Green Charging LED indicator stays ON
Battery Full	Green Hi LED indicator is ON
Battery at Half Power	Yellow Med LED indicator is ON
Battery Low	Red Low LED indicator is ON

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

- Tronix Explorer XT is switched ON at no load. Tronix Explorer XT's battery will be discharged after 40 hours.
- Tronix Explorer XT is switched OFF at no load. Tronix Explorer XT's battery will be discharged after 200 days. Thus, when not in use, it is recommended that Explorer XT should be plugged in to a 100V to 240V AC mains supply or to a 14V DC outlet.
- Even when switched OFF, the Tronix Explorer XT's internal circuitry still consumes power. A totally discharged battery will severely affect its useful life.

Should the Tronix Explorer XT run out of power, Tronix Auxiliary Battery Pack can be connected to the Tronix Explorer XT. When the Auxiliary Battery Pack is connected, Tronix Explorer XT bypasses its internal battery and

draws power from the battery pack. Tronix Auxiliary Battery Pack is sold separately. More information can be obtained from Innovatronix website. See *Contact Information*

Charging

- Make sure that the Tronix Explorer XT is switched OFF.
- Tronix Explorer XT can be charged through the following methods:
 - Mains Supply
 - Plug the power cord to a 100V to 240V AC mains supply.
 - Except for the initial charging, the Tronix Explorer XT should be fully charged after 3 to 5 hours.
 - When the **green** *Charging* LED indicator stopped blinking (LED stays ON), the battery is fully charged.
 - 14V DC Outlet
 - Plug the Tronix Explorer XT to a 14V DC outlet. A car cigarette lighter socket would be an example. Make sure the appropriate adaptor is used.
 - Note that Tronix Explorer XT cannot be fully charged when this method is used.

Tip: It is recommended to charge the Tronix Explorer XT occasionally, once a week to a few times a month, when not in use. 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.

Maintenance

- For optimum performance, keep the battery fully charged. A lit **green** *Hi* LED indicates a fully charged battery when Tronix Explorer XT is being used. On the other hand, a lit **red** *Low* LED indicates a drained battery.
- Switch OFF the unit when not in use. Leaving Tronix Explorer XT on when not in use will severely drain the battery.
- Use a dry cloth when cleaning the unit. Do not use any liquid or detergents.
- Coil cables when not in use. Loose cables may cause accidents.

Battery Replacement



WARNING:

Risk of electric shock. Proceed with extreme caution.

Before replacing batteries, disconnect all cords and wait 30 minutes.

Remove any metal objects such as wristwatches and jewelry.

Use properly insulated tools and handles.

Strictly follow the instructions stated to avoid possible damage to the unit and injury.

(See separate document for complete instructions on battery replacement)

1. Make sure that Tronix Explorer XT is turned OFF.
2. Remove the screws of the cover located at the sides and top portion of the unit.
Remove the cover. Make sure to place all screws in a container to avoid misplacement.
3. Carefully disconnect the battery terminals located in the boost converter and the battery converter side (the S cord that connects the two batteries) located in the charger board side from the battery to avoid short circuit.
NOTE: Remember to position the wires to ensure correct installation later.
4. Remove the charger board located at the sides of the batteries. The charger board serves as DC charger of the batteries inside.
5. Remove the screw of the battery bracket and screw under the battery casing
6. Remove the battery bracket and the battery at the same time.
7. Turn the unit to the other side and remove the boost converter board.
8. Remove the screw of the battery bracket and the screw under the battery casing.
9. Slide the battery out of the battery casing.
10. Securely place the new battery, sliding it to the battery casing. Tighten the battery bracket screws and install the boost converter board.
11. Turn to the other side and make sure to place the batteries inside the metal closure first. Reinsert the bracket screws and put back the charger board before connecting the battery terminals and connector.
NOTE: Make sure that the battery terminals will NOT touch the heat sink. For safety, you can cover the area of the heat sink where the

battery terminals will pass during battery replacement.

ATTENTION: Remember to take note of the polarity of the wires and not interchange them. Otherwise, the unit will be damaged. Black wire is for the negative (-) terminal and red wire is for the positive (+) terminal.

12. Place back the cover. Reinsert and tighten all screws.

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

Troubleshooting

Refer to the table below to address minor problems regarding installation and operation of Tronix Explorer XT. 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 Tronix Explorer XT to a 100 to 240V AC outlet or to a 14V DC supply. If the Tronix Explorer XT does not switch on after charging, contact Innovatronix Customer Service (see <i>Contact Information</i>)
Not Charging	Not Plugged to Supply	Plug Tronix Explorer XT to a 100 to 240V AC outlet or to a 14V DC supply
	No Power from Supply	Ensure power is in the mains supply outlet. If Tronix Explorer XT still does not charge, contact Innovatronix Customer Service (see <i>Contact Information</i>)
Lighting equipment not working	Battery not charged	Charge Battery; Plug Tronix Explorer XT to a 100 to 240V AC outlet or to a 14V DC supply
	Lighting equipment malfunctioning	Contact manufacturer of lighting equipment
	Incompatible equipment	Lighting equipment not compatible with Tronix Explorer XT (see attached <i>Compatibility Chart</i> for compatible equipment)
Battery draining fast	Battery not fully charged	Charge battery for 3 to 5 hours (12 to 15 hours if charging for the first time)
	Modeling lamps in	Modeling lamps, when used with flash

	flash units	units, drains the battery faster. It is not advised to use modeling lamps with Tronix Explorer XT as power source
	Battery nearing end of its useful life	Battery performance decreases with time. Also, batteries age prematurely when placed in places with high temperatures. Replace battery. See <i>Battery Replacement</i>

Frequently Asked Questions

- ❖ There are 3 models. How do I know which one will I need?
The model denotes the voltage output of the Tronix Explorer XT. Select the model which matches the input voltage of your studio lights or power packs. For example, Tronix Explorer XT 115V/60Hz models are used by photographers in Tronix North America (United States and Canada). The Tronix Explorer XT 230V/50Hz models are used by photographers in Europe, Middle East, Australia, New Zealand and the rest of Asia. While Tronix Explorer XT 230V/50Hz models are used in the Philipines, KSA and other countries.

- ❖ How do I know if my strobe or power pack is compatible with Tronix Explorer XT? Why not all strobes and power packs are compatible with Tronix Explorer XT?
*Tronix Explorer XT is **compatible to more digital strobes than the Tronix Explorer 1200 due to its increased power rating**. The newer Tronix Explorer XT SE 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. This is because after a flash is fired, the capacitors inside the strobe will draw a large inrush current. Tronix Explorer XT 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, the flash will just not work properly

- ❖ How do I charge the Tronix Explorer XT?
There are two ways to charge Tronix Explorer XT.
 - *A Conventional Outlet, 100V to 240V_{AC}. For a fully discharged battery, except for the initial charging, charging can take about 3 to 5 hours.*
 - *Car Battery. Plug the Tronix Explorer XT to the car cigarette jack through the 14V DC jack located at the back panel of Explorer XT.*
- ❖ 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. 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?
Just like any portable power source from batteries, the recycling time of Tronix Explorer XT 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 convenience 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.
- ❖ Are there any maintenance tips on storing Explorer XT?
The unit should be switched OFF when not in use. Leaving Tronix Explorer XT 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.
- ❖ What is the expected life span of the Explorer battery? How much would be the replacement battery?
Tronix Explorer XT'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 uses two 12V, 7Ah Sealed Lead-Acid batteries. Other batteries may not be suitable to Tronix Explorer XT and may cause electrical hazard or injury

- ❖ Is the Explorer 1200 now discontinued?
No, Tronix Explorer 1200 is NOT discontinued. The Tronix Explorer 1200 is recommended for those who work for lower loads while Tronix Explorer XT is recommended for those who need faster recycle time and larger loads.

- ❖ 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.

Technical Specifications

Feature	Specification		
Available Models	115V/60Hz	230V/50Hz	230V/60Hz
Output			
Power Capacity	440VA 350W max.		
Voltage	115V	230V	
Frequency	60Hz	50Hz	60Hz
Current	4A	2A	2A
Waveform	Sine wave		
Socket	Universal (x2)		
Input			
AC Input			
Voltage	100-240V		
Frequency	50/60Hz		
Current	280-130mA		
Connector	IEC C14		
Auxiliary Battery			
Voltage	24-28V		
Current	20A		
Connector	Neutrik powerCON NAC3MPA		
DC Input			
Voltage	12-14V		
Current	500mA		
Connector	EIAJ-05		
Battery			
Type	Maintenance-free, Sealed Lead-Acid (x2)		
Voltage	12V		
Capacity	7Ah		
Charging Time	3-5hrs.		
Runtime	Online - 40hrs. at no load		
Indicators			
Visual	Green, Yellow and Red LEDs for battery status Green LED for charging status		
Physical			
Dimensions	37cm. x 14cm. x 18cm.		
Net Weight	8.2kg. (18lb.)		

Service and Warranty

The Tronix Explorer XT 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 the product 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.

Contact Information

You can send inquiries 24 hours a day, 7 days a week. Response may take up to 24 hours.

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