



TELESTREAM



Application Note

Running ClipExpress/ClipRemote On Battery Power

Introduction

This Application Note describes how to run the ClipExpress or ClipRemote on a portable battery system.

Power Conversion

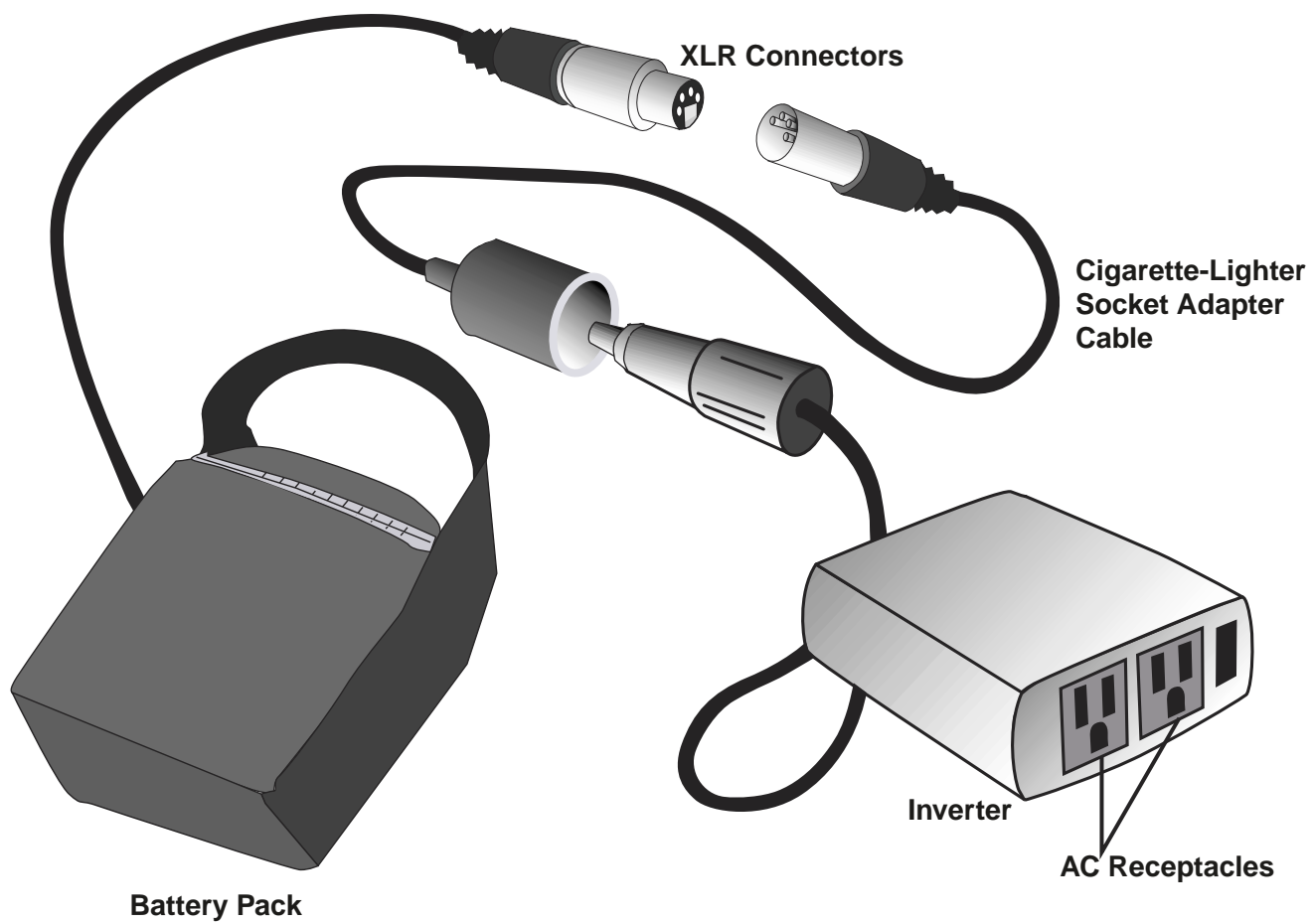
In order to run an ClipExpress or ClipRemote from a battery power source, you need to convert the DC battery power to AC. In the United States, that means converting from 12 V DC to 115 V AC. The device that does the conversion is called an **inverter**. Inverters may be purchased from a catalog, Web retailers, and from recreational vehicle accessory dealers. The minimum recommended power rating for an inverter to power a ClipExpress/ClipRemote is 100 Watts. A unit of that rating can be purchased for less than \$50 (US currency). Keep in mind that if you need to operate any other AC powered equipment, such as a monitor, you should buy an inverter with a higher wattage rating.

The Battery Source

If you plan to use an automobile as your battery power, you don't need any additional equipment as most inverters come with an automotive cigarette lighter type plug. If you intend to use professional video camera batteries that have an XLR connector, you will need to purchase a "male-XLR-to-cigarette-lighter-socket" adapter cable (see "Battery Pack-Inverter Connection" on page 2) which should be available from your battery supplier. Note that most commercially available inverters are designed for 12 Volt DC input, but some camera batteries are 13.2 or even 14.4 Volts. These higher voltage batteries, when fully charged, may trip the over voltage input on some inverters. Telestream recommends that only 12 Volt batteries be used in this application.

Power Consumption When Running on Battery Power

ClipExpress/ClipRemote consumes slightly less than 50 Watts when playing a clip. It uses even less power when idle. Inverters generally have high conversion efficiency, so a good rule of thumb is that a 50 Watt hour battery will run a ClipExpress/ClipRemote for one hour, a 75 Watt hour battery will run the unit for one and a half hours, and so on. Individual run time will depend on many factors, such as the age and condition of the battery, what operations are being performed by the ClipExpress/ClipRemote, and what additional equipment is running off the inverter. Telestream strongly recommends that you perform run time tests before going out to the field.



Battery Pack-Inverter Connection