

BC-L160

Li-ion battery charger



Overview

The BC-L160 is a Li-ion battery charger designed for charging Sony professional (V-Mount) Li-ion batteries and has a number of new features, including simultaneous charging of four batteries and a "silent" mode for overnight charging in a hotel room. It is ideal for production applications using XDCAM, XDCAM HD, XDCAM HD422, MPEG IMX, Digital Betacam and HDCAM camcorders, using Sony professional monitors and using the PDW-HD1500 and HDW-S280.

Features

Li-ion charger for Sony Professional Batteries

The BC-L160 can be used with the current BP-GL65, BP-GL95, BP-L60S, BP-L80S and the discontinued BP-L40, BP-L40A, BP-L60A, BP-L90A and BP-IL75.

For safety reasons, the BC-L160 must not be used with any other type of battery, including NiMH batteries (BP-M100, BP-M50) or batteries from non-Sony third party companies. Serious damage may be caused if this condition is not met.

4 Channel Operation

The BC-L160 can charge 4 batteries simultaneously, with a maximum charging current of 5A (depending upon battery type).

Choice of charging modes

Charge voltage selection can be made via an H/L switch on the rear panel. The L setting can be used to prolong the battery life, although in this mode maximum capacity will be reduced to 90%

H = 100%, L = 90% (Charging voltage = 16.8V, 16.4V)

Charge speed can be selected using the F/S switch on the rear panel.

F (Fast) mode is the factory setting. Batteries are charged using a charge current of 5A or 3A.

S (Slow and silent) mode can be used to reduce the charge current and therefore the fan noise (all batteries are charged using 3A current in S mode). S mode is useful for quiet locations such as a music studio, or where overnight charging in a hotel room is required. Charge time is increased to around 6 hours. The charger fan works normally when outputting DC power in DC output mode.

A skip switch allows the trickle charge sequence to be skipped when the BC-L160 is charging a battery which is already charged to more than 90%. This feature can help to prolong battery life.

Battery Diagnosis mode

The BC-L160 has a capacity display on the LCD. This makes a calculation using an algorithm that is based upon the number of times a battery is charged. In some cases, the actual capacity may be different to the calculated capacity depending upon the storage condition of the battery, the load current being supplied etc. The BC-L160 can perform a more comprehensive measurement using a full charge and discharge test.

Charge time

For current models:

- BP-GL65 - 155 minutes
- BP-GL95 - 145 minutes
- BP-L60S - 150 minutes
- BP-L80S - 210 minutes

Discontinued models:

- BP-L40/40A - 125 minutes
- BP-L60A - 235 minutes
- BP-L90A - 300 minutes
- BP-IL75 - 140 minutes

All times based on "H" and "L" switch settings

Gallery

