

## AUTO SAFETY FEATURES

The charger has designed with built-in safety features to protect the charger as well as the batteries from serious damage in the event an attempt is made to charge a faulty battery. Low voltage batteries are detected prior to applying quick charge current. If low voltage battery is detected, the charger will start charging the battery until the battery reaches an acceptable quick charge level. This can prevent any damage to the charge and the battery.

## CAUTION

- Do not place anything on the top of the charger; do not block ventilation holes when charger in use.
- This is normal during charging the temperature of the charger will rise.
- Be sure to insert battery into the battery socket firmly.
- Do not attempt to charge faulty batteries or batteries with incorrect specifications.
- Do not expose the charger to direct sunlight, and use the charger in well-ventilated place.
- Do not open the unit or attempt to repair any malfunction, there are dangerous power supply circuits inside. There are no user serviceable parts inside.
- Avoid using the charger near equipment that generates noise, such as TV set ...etc.
- The charger should be turned on prior to batteries insert.



# PROFESSIONAL CAMCORDER BATTERY CHARGER USER MANUAL



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## INTRODUCTION

### FEATURES

**2-Channel Gold Mount Battery Charger**  
This is a 2-channel battery charger that will fully charge 2 Gold Mount Li-ion battery packs simultaneously in approximately 4 hours.

**12V DC Output**  
The XLR 4-pin Female Chassis Socket allow to be used as a DC adapter power to supply power (12V / 3.5A) to other portable equipments.

**LCD Display**  
The LCD Display shows the charging status like battery voltage, power level and battery status.

### CHARGER OPERATION

The charger is a dual ports sequential quick charger that will fully charge the Li-ion batteries in approximately 4 hours. It can charge 2 batteries sequentially. The sequence for battery charging at channel 1 then progresses to channel 2 and then back to channel 1 again. It automatically searches each channel in continuous loop for battery charging sequence loop is interrupted only by the detection of valid battery to be charged.

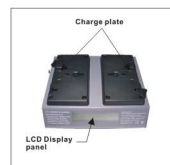
### OPERATION INSTRUCTION



**Step 1:**  
Connect the supplied AC power cord firmly into the AC input jack and wall outlet.



**Step 2:**  
Press the main power switch at the rear of the charger down to the white dot direction. The LCD display will light and show "AVNL190 CHARGE FOR LI\_ION".



**Step 3:**  
When the charger waiting for battery, the LCD display will show output voltage and output current.



**Step 4:(A)**  
Sliding the battery pack in the battery socket until it is fully mounted. The word "CHARGE" and battery status (voltage and percentage of capacity shows alternately) will be shown on the LCD display.

**(B)**  
If the word "FAIL" show, means the battery is faulty one.



**Step 5:**  
When the battery is fully charged, the word "FULL" will show on the LCD display instead of "CHARGE". Push the release lock in the side of the battery socket and slide out the battery pack. After charged the battery, turn off the charger and disconnect the AC power cord from the charger and the wall outlet.

### SPECIFICATIONS

<b>Application</b>	Li-ion, Ni-MH & Ni-Cd V-Mount Battery Pack
<b>Color</b>	Grey
<b>Input Voltage</b>	AC 100 - 240V ~
<b>Input Frequency</b>	50 - 60 Hz
<b>Battery Charging Voltage</b>	Li-ion battery 16.8V DC Ni-MH / Ni-Cd battery 18.2V DC
<b>Battery Charging Current</b>	2A Max
<b>DC Socket Output Voltage</b>	12 - 13.8V DC
<b>DC Socket Output Current</b>	Max 3.5A
<b>Measurement</b>	220.00 x 190.50 x 82.90 mm
<b>Weight</b>	1.68kg
<b>Built-in Protect Circuit</b>	- Over-Charge - Over-discharge - Over-Current - Over-temperature - Short circuit protection

### PACKAGE INCLUDED

Charger  
AC Input Power Cord  
DC Output Power Cord