

IDX TECHNOLOGY

VL-2Plus

SEQUENTIAL QUICK CHARGER WITH

IDX Technology wants to thank you for purchasing the VL-2Plus, and hopes that its compact and careful design will satisfy all your E-50, 50S, 80S battery charging needs. Please utilize this Operation Manual for help on how to best use the VL-2Plus. If you have any additional questions, please contact the appropriate IDX office listed at the end of this manual.

FEATURES

- Can charge E-50, 50S, 80S, Lithium Ion Battery Packs.
- Quick charging on both battery channels sequentially.
- Built-in 60W Camera Power Supply
- Auto safety features for damaged or misused batteries.
- Universal A/C input for world-wide use.

CHARGER OPERATION

The VL-2Plus is a sequential quick charger that will charge the E-50, 50S, 80S, Lithium Ion Battery in approx. 2 and ½ hours. It can charge 2 batteries sequentially. The sequence for battery charging is called the charging sequence loop. The charging sequence loop charging starts at channel 1 then progresses through to channel 2 and then back to channel 1 again (1,2,1,2,...). The charger automatically searches each channel for a battery to charge, in a continuous loop. The charging sequence loop is interrupted only by the detection of a valid battery to be charged.

OPERATING INSTRUCTIONS

- Connect AC power cord firmly.
- Turn the rear mounted power switch ON (Front panel Amber LED will light).
- Basic Operation:-**
 - Insert a battery
 - Battery check mode, VL-2Plus Charge channel LED is Red, while the charger is checking the battery.
 - Battery Check
 - After 5 seconds the LED will remain Red indicating that the VL-2Plus Charger is in quick charging mode or if the battery is faulty the LED will flash Orange. If a battery cannot enter quick charge initially a recovery program will start and the charge LED will also remain red. If the battery has then been successfully recovered then the charger will automatically enter quick charge program. If the battery cannot be recovered or if a battery is over charged then the LED will start flashing Orange indicating Battery Fault.

- 3) Charge End
 - When the battery is fully charged the LED will turn to Green, indicating that the battery is ready to use.
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AC POWER SUPPLY OPERATION

The VL-2Plus can also supply power to a camera or other 12V DC equipment. Insert the 4-pin XLR connector of the DC-DC power cord into the XLR connector on the VL-2Plus front panel. When the connector on the other side of the power cord is connected to your camera, monitor etc., the VL-2Plus will supply up to 60 Watts of DC power (4.3A @ 13.8V).

The charger and AC adaptor function cannot be operated at the same time.

Important: To operate the DC OUT function the batteries must be removed from the charger.

LED COLOUR STATUS LIST

Solid RedQuick Charge in progress

Solid Green.....Charge complete, battery ready

Flashing OrangeDefective battery

SAFETY FEATURES

The VL-2Plus has 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 a battery is found to be low voltage it will not be quick charged until it reaches to the acceptable quick charge level. This prevents any damage to the unit or to the battery. Batteries reaching an over voltage condition during charging will also be detected.

GENERAL NOTES

- a) While in use do not place anything on the charger, do not block ventilation holes.
- b) During charging the temperature of the charger will rise, this is normal and not a malfunction.
- c) When connecting a battery be sure to insert it into the battery socket firmly.
- d) Do not attempt to use faulty batteries or batteries with incorrect specifications.
- e) Do not expose the charger to direct sunlight, use in a well ventilated place.
- f) Do not operate near equipment that might be influenced by noise such as TV, etc.
- g) Do not open unit or attempt to repair any malfunction, there are dangerous power supply circuits inside. There are no user serviceable parts inside.
- h) The unit should be turned on prior to inserting batteries to be charged.

SPECIFICATION

Applicable batteries	ENDURA-50, 50S, 80S, Lithium Ion Batteries,
Quick charge current	2.0A
DC Output	60W (4.3A @13.8V)
DC Output Connector	4-pin XLR (Pin 1 negative, Pin 4 positive)
Input voltage	100 ~ 240V AC 50/60 Hz Automatic
Power consumption	130 VA max.
Weight	1.6 Kg approx. 3.3 lbs approx.
Dimension	147 (W) x 72 (H) x 207 (D) mm 57.8(W) x 2.83(H) x81.4(D) inches