

VL-2X

2ch Sequential Quick Charger



Instruction Manual



Thank you for purchasing the VL-2X 2 channel sequential charger with DC output. The VL-2X is designed to charge V-Mount Lithium Ion batteries. Prior to using the charger, IDX recommends to read this Instruction Manual and keep this manual for future reference.

Caution for safety use

Please be sure to read the Instruction Manual and follow the instructions. Failure to follow the instructions may cause an electric shock, injury, fire or malfunction.

⚠ WARNING

May cause sudden serious injury and death

- Do not connect to an AC power source that exceeds the voltage specification stated on the unit.
- Use only with the compatible batteries listed in this manual.
- Do not short the contact pins with any metal object.
- Do not carry or store with metal equipment.
- Do not immerse in water.
- Do not attempt to open the outer casing or break apart.
- Do not subject the unit to extreme physical impact or pressure, or place any object across the terminals that could cause it to short.
- Do not attempt to use if damaged.
- Protect the power cord from any damage.

⚠ CAUTION

May cause injury or damage other equipment

- The unit should be used under the conditions listed in this manual.
- Do not expose the unit to extremely high temperatures.
- Use the approved power cord / appliance connector / plug conforming to the proper ratings (voltage, ampere) and safety regulations of each country if applicable.
- Keep the unit away from excessively dry or humid environments.
- Stop charging immediately if the charging does not complete within the designated time.
- In case of abnormal smell, leak, color change or case deformity during use, turn the power off and unplug the cable from the socket to avoid possible injury.
- This is a class A product in a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

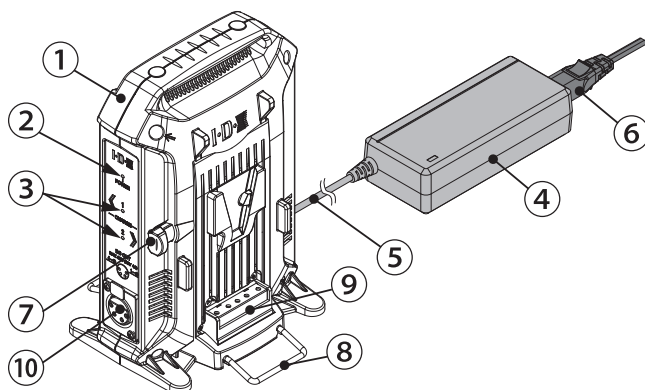
Features

- Universal AC input for world-wide use.
- Sequential quick charge.
- Auto safety & protection features.
- Recovery charge mode for low voltage batteries.
- Auto-stop charging if battery fails to reach 100% within the designated time.
- Over voltage protection stops charging when the battery voltage exceeds the designated charge level.
- Protection circuitry activates when a battery fault is detected.
- NP Type Lithium ion batteries can be charged via optional A-E2NP charger adaptor.

Specifications

- Recommended batteries : IDX V-Mount Lithium Ion batteries
IDX NP Type Lithium Ion battery (Using A-E2NP)
- AC adaptor input voltage : AC100V~240V 50 / 60Hz Automatic
- AC adaptor : YHY-15004000 (Shenzhen Yinghuiyuan Electronics Co., Ltd)
- Power consumption : MAX 140VA
- Operating temperature : 0~40°C / 32~104°F
- Operating humidity : 20%~90% RH
- Charging method : Constant current and constant voltage
- Charging output : 16.8V 1.9A / MAX 2.7A
- Recovery charge current : approx.400mA
- DC output : MAX 36W (15V $\pm$ 2.4A)
- Battery protection timer : Recovery charge approx 120 min
Quick charge approx 520 min
- Dimensions : approx. 87.4 (W) $\times$ 183.3 (H) $\times$ 126.6 (D)mm
approx. 3.44 (W) $\times$ 7.22 (H) $\times$ 4.98 (D) inches
- Weight : Charger body approx. 455g / 1.00lbs
AC adaptor approx. 320g / 0.70lbs
- Charge time standard :
For the latest charging time information, please visit our website
(<https://idxtek.com/charging-times/>)

Location and Function of Parts



- ① Charger body
- ② Power LED (POWER)
- ③ Charge LED (CHARGE)
- ④ AC adaptor
- ⑤ DC plug / DC cable
- ⑥ AC plug / Power cord
- ⑦ Battery release lever
- ⑧ Support stand
- ⑨ Charging connector
- ⑩ DC out (XLR connector 4pin female)

Safety Features

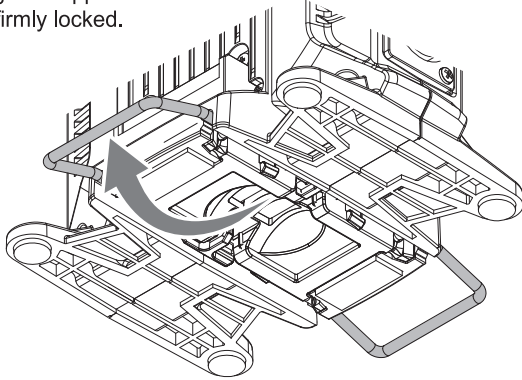
VL-2X is equipped with various Internal Safety Features that protect both the battery and charger from serious damage.

- The charger starts recovery charging if the voltage of mounted battery is under 12V. (Solid Red)
- The charger will stop charging if the battery voltage does not reach 12V after 120mins of charging. (Flashing Amber)
- The charger stops charging automatically if the battery is not fully charged after 520mins from quick charging state. (Flashing Amber)
- The charger stops charging if the mounted battery is unusual. (Flashing Amber)
- Please use DC output within 36Wh.
- The over-current protection is activated, and the output is stopped. (Power LED : Flashing Amber)
- When the over-current protection is activated, please remove the device in use and unplug the AC plug.

Operating Instructions

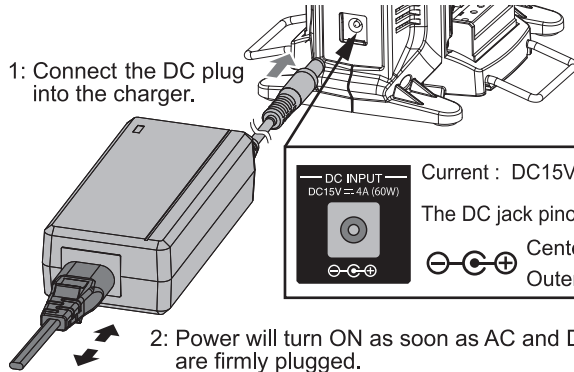
① How to Use the Support Stand

- * Swing the support stands out until firmly locked.



② Connect the AC Adaptor

- 1: Connect the DC plug into the charger.



Current : DC15V = 4A (60W)
The DC jack pinout for the VL-2X
Center: ⊕ Positive
Outer : ⊖ Negative

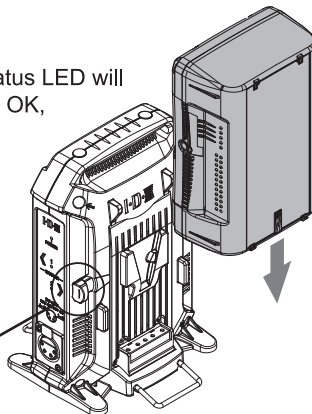
- 2: Power will turn ON as soon as AC and DC connectors are firmly plugged.
- *Please place the AC adaptor in a well ventilated area.

③ Charger Operation

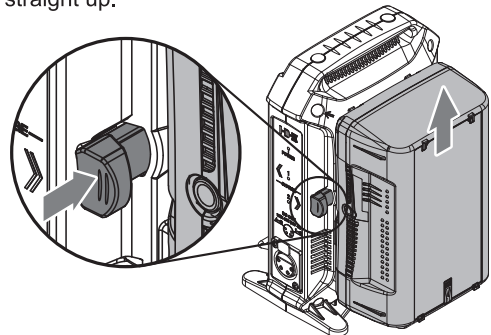
- 1: Install the battery as shown.
- 2: When the battery pack is mounted, a status LED will turn ON. If the condition of the battery is OK, charging will automatically start.
- 3: Charging will automatically stop when the battery is fully charged.

*Please mount the battery until the battery release lever is firmly locked.

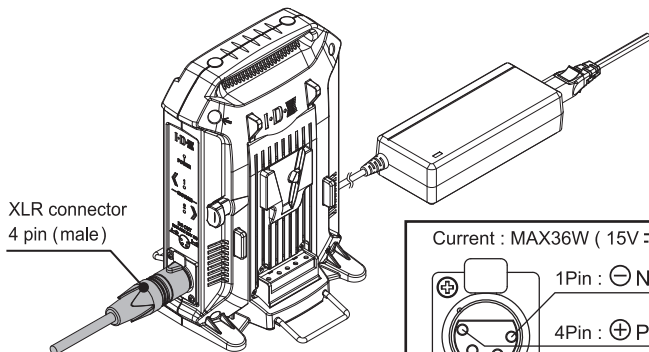
*For your safety, Do not carry the charger while the battery is attached.



- 4: When removing the battery from the charger, firmly press the release lever while lifting the battery straight up.



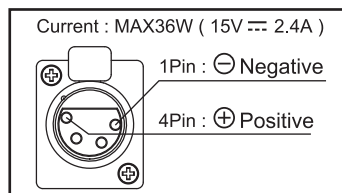
④ DC output Operation



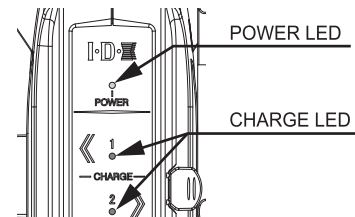
Connect the XLR cable to supply power to devices such as cameras.

While the VL-2X operates as a charger, the DC output function is disabled.
While the DC output is in operation, charging is disabled.

*Please make sure to check the power consumption of connected device prior to using the VL-2X's DC output.



⑤ Status LED Indicator



LED indicator states

Indication		Status
Light Off	○	No battery or charging standby
Solid Red	●	Recovery / quick charge in progress
Flashing Red	⚡	Charger fault
Solid Green	●	Fully charged
Flashing Amber	⚡	• Battery protection timer activated while recovery charging • Over voltage protection circuitry activated

* Design and specifications are subject to change without notice.

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