VL-PD1

PD Charger Plate for V-Mount Battery

Instruction Manual

PD

Thank you for purchasing the VL-PD1. This charging plate uses an IDX USB PD charger to charge IDX V-Mount batteries. Read this manual carefully before use to understand the operating instructions and safety precautions. Keep this manual where it can be consulted at any time.

Safety Precautions

Incorrect use may cause fire, electric shock, injury, or product malfunction. To prevent accidents, observe the precautions below.

WARNING Risk of death or serious injury

- Do not use a power supply voltage other than that specified on the unit.
- Charge only batteries specified by IDX.
- Do not short-circuit terminals with metal objects. Do not carry or store the unit with metal objects.
- Do not expose the unit to water or immerse it in water.
- Do not disassemble or modify the unit.
- Do not drop, strike with a hammer, or subject the unit to strong impact. Do not place heavy objects on it or apply pressure.
- Do not damage the USB Type-C cable.
- Do not use a damaged charging cable or a cable with a deformed connector.
- Attach the battery securely, pushing it fully into place.
- Do not store, install, or use the unit in direct sunlight, near heaters, or where it may get wet or be exposed to steam, humidity, oil mist, or dust. These conditions may cause malfunction, fire, or electric shock.
- Shorting the positive and negative terminals may cause fire or electric shock. Keep metal objects away from the terminals when connecting a battery.
- Do not use the unit if it is severely damaged.
- For repairs or internal inspection, contact your dealer or the IDX sales department.

CAUTION Risk of injury or property damage

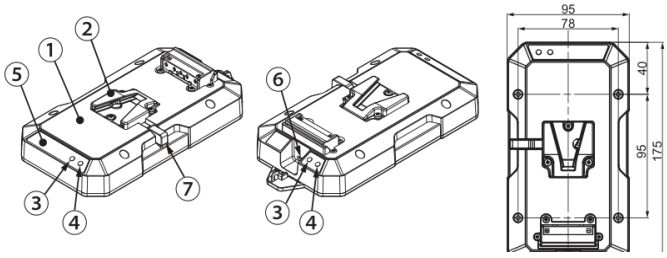
- Always observe the operating conditions specified by IDX.
- Do not use in high-temperature environments.
- Do not store in wet or highly humid locations.
- If charging is not completed within the specified time, stop charging immediately.
- If unusual odor, leakage, discoloration, or deformation occurs during use, unplug the power plug from the outlet and immediately stop using the unit.
- Do not move or transport the unit with a battery attached.
- Do not charge a battery while it is being used.
- Do not charge a battery with this unit and another charger simultaneously.
- This is a Class A information technology device. In residential environments it may cause radio interference, requiring the user to take appropriate corrective measures.

Features

- Charges IDX V-Mount batteries using an IDX USB PD charger.
- Supports fast charging at up to 4 A with a USB PD port rated at 75 W or higher. Charging speed depends on the charger output.
- Charging and communication LEDs are visible when the unit is placed flat on a shelf or mounted on a wall.

Note: Wireless communication will become available through a future update.

Parts and Mounting Dimensions



1 Main unit
2 V-Mount
3 CHG. LED
4 Wireless LED
5 Front LED label
6 USB-C connector
7 Release lever

Mounting holes: 4. M3 x 12 mm or longer screws recommended.

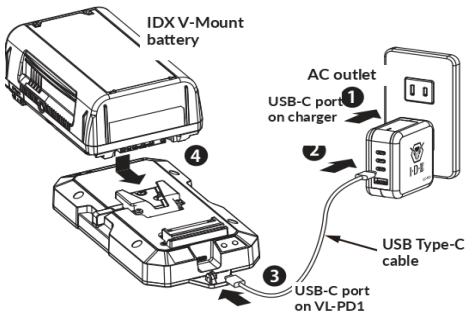
Specifications

- Compatible batteries: IDX V-Mount lithium-ion batteries
- Compatible chargers: PD port of an IDX USB PD charger
- DC input connector: 1 x USB Type-C port
- Rated input: DC 9 V / 3 A, DC 20 V / 5 A (100 W max.). A USB PD charger rated 20 W or higher is required
- Operating temperature: 0 to 40°C (32 to 104°F)
- Operating humidity: 20% to 90% RH
- Charging method: Constant Power (CP), Constant Current (CC), Constant Voltage (CV)
- Charging current / voltage: Up to 4 A / 16.8 V
- Protection functions: Overvoltage, overcurrent, and temperature protection
- Dimensions (W x H x D): Approx. 95 x 192 x 35.8 mm (including protrusions)
- Included accessory: Front LED label for wall-mounted installation
- USB Type-C cable: Use a cable rated 100 W or higher supplied with the PD charger
- Weight: Approx. 300 g
- Charging time: See https://www.idx.tv/charge_time/ for latest charging times

How to Use

1. Connect the USB Type-C cable from a USB PD charger plugged into an AC outlet to the VL-PD1.
2. Attach a battery to the V-Mount and ensure it is securely seated.
3. The CHG. LED lights solid red while charging and solid green when charging is complete.

CAUTION: Do not install the unit in an unstable location.



LED Indicators

CHG. LED

LED indication		Status
Solid orange		No battery installed
Solid red		Charging (incl. temperature standby)
Solid green		Charging complete
Flashing red		Charging error
Flashing orange		PD charger not connected (battery-powered)
Alt. red/orange		Unsupported PD charger connected

Wireless Communication LED

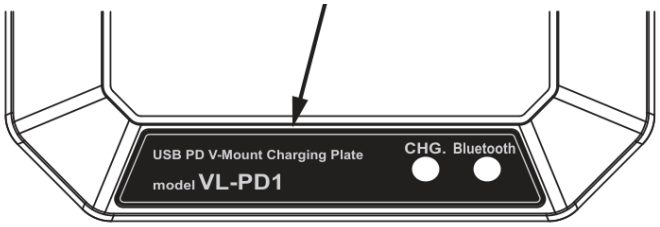
LED indication		Status
Solid blue		Transmitting data periodically
Solid purple		Data transmission stopped (cannot connect)

Note: Wireless communication will be enabled through a future update.

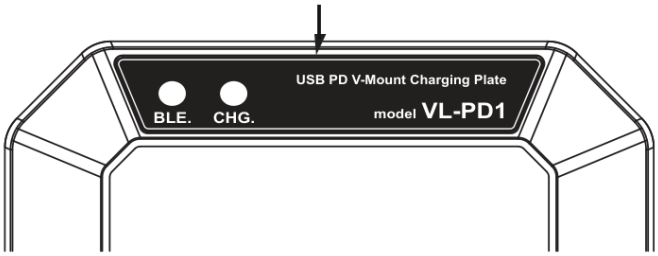
LED Label Orientation

For wall mounting, you may replace the factory-installed front LED label with the supplied wall-mount label so that the markings remain upright and easy to read.

Flat placement (factory-installed label)



Wall mounting (supplied replacement label)



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Online Manual

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