

# Instruction Manual

Battery Quantum DP-6 dedicated for flashes Quantum DP-300/DP-600



## Foreword

Thank you for purchasing the Quantum product.

Battery Quantum DP-6 is designated for work as a power supply source for Quantum DP series flashes. Thanks to this solution Quantum DP strobes enable comfortable work and usage either in studios and facilities that lack electrical installation.

Please read the instruction manual carefully before using this product.. It includes important information about safety, usage and maintenance of the product. By implementation of guidance, included in instruction manual, allows full exploitation of its possibilities. Please keep this instruction manual for future reference in a known location and easily accessible to all users of the device.

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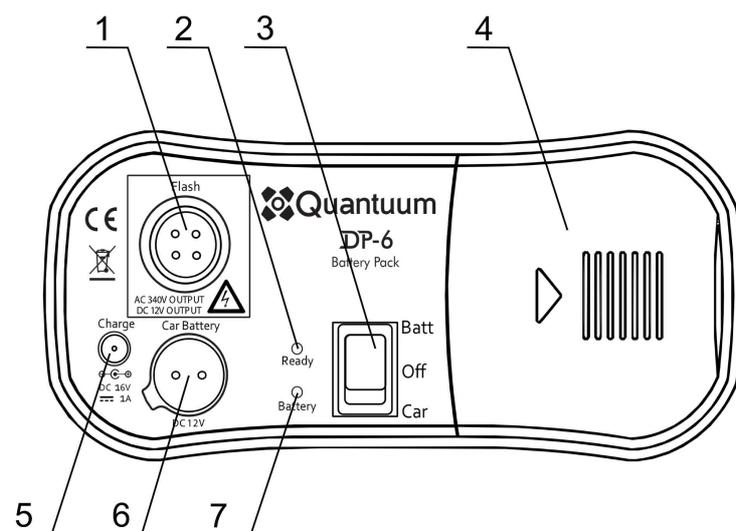
## Safety instructions

**To avoid damage of the device and threat to health of its users it is an obligation to read thoroughly the instruction manual and absolutely obey the rules included.**

- Do not disassemble and modify the device! The flash and connected batter are high-voltage devices. Ignoring above-mentioned safety instructions could result in serious electric shock or damage of the device. Modifications of the device at one's own or by unauthorized service results in the warranty void.
- If the cover is damaged, eg in consequences of falling, it is advised to send the device to authorized service center for inspection and repair (if necessary).
- Stop using the damaged element immediately after noticing any faulty of wires connecting the device with AC power source. Disobeying of the given advice may results in the device damage, fire or electric shock.
- Keep it dry! Do not use the device with wet hands, do not immerse in water, do not expose to rain or snow. Ignoring above mentioned safety restrictions could result with electric shock, short circuit of fire.
- The device is designed to work in temperature from 10 to 40 Celsius degrees. Exceeding this scope could result in incorrect functioning of the device or could lead to overheat and damage.
- Do not expose the device to high temperatures! Leaving the device without proper protection, for example left in a closed car in direct sunlight or close to high heat sources could result in fire, damage of the flash cover or internal components.
- The device must not be used in high dustiness conditions and when there is a risk of contact with flammable liquids or vapors. Disobeying given advice can result in the device damage or fire.
- This device can only be used and stored in dry and well ventilated closed spaces.
- Keep out of the reach of children! The device contains small parts which may pose the risk of suffocation. If swallowed, seek medical advice immediately.

**The manufacturer of this device does not take responsibility for any damage or injury which may occur while using inconsistently to the given instruction manual.**

## Names of parts



- (1) Power cord socket
- (2) Ready – device operation indicator
- (3) Power switch
- (4) Accumulator chamber cover
- (5) Charge – charger socket
- (6) Car Battery – car lighter power supply socket
- (7) Battery – flash power supply indicator

## Supplied accessories

Quantum DP-6 battery is supplied with following accessories:

- (1) Charger
- (2) Connection cord
- (3) Car lighter cord
- (4) Case
- (5) Instruction manual

## Handling and usage

- 1) Before connecting the battery charger to the AC power source, please check the parameters of supplied electric current (200 ~ 240V 50Hz) and make sure that the electrical installation is in good technical condition. You should immediately stop charging the battery if it is suspected that the electrical installation does not meet requirements or is not in good condition.
- 2) It is forbidden to use the Quantum DP-6 battery with flashes different than Quantum DP-300/DP-600 flashes (sold separately). The manufacturer does not take the responsibility for damages which occurred by disobeying the given advice.
- 3) Flash cannot be plugged in the AC power source and battery power socket at the same time! The battery could be connected with the flash only if the power switch (3) is switched on 0 position and there is no connection of the device with AC power source. Connecting flash to electric installation can be done only when battery is disconnected completely.
- 4) The battery cannot be used in high humidity conditions and temperature below 10 Celsius degree.
- 5) The device cannot be used in high dustiness conditions and when there is a risk of contact with flammable liquids or vapors. . Disobeying given advice can result in the device damage or fire.
- 6) The battery should not be left turned on if it is not in use.
- 7) The device would discharge itself after approximately 6 months. It is recommended to charge the battery at least once per 3 months after its complete discharge.

**Disobeying the given advice may result in device damage!**

## Charging the battery

1. First of all, make sure that the battery power switch (3) is on OFF position and flash is disconnected with the battery.



### CAUTION!

Battery power switch (3) has three positions:

**OFF** – battery is turned off

**BATT** – AC power supply

**CAR** – car lighter power supply

Plugging in the power cord should happen only when power switch is on OFF position. Disobeying the given advice may result in the device damage.

2. Charger, supplied in a set, should be plugged in the power supply socket. After that diode placed on charger cover should shine green. If the diode does not shine check the technical condition of electric installation socket. In situation when the AC power socket is efficient and the diode still does not shine it is advised to stop using the device and contact with Quantum service.

3. Connect the plug of the connection cord with socket Charge (5) situated on upper panel of the battery. The diode which is placed on the charger cover should shine red light which indicates that the accumulator is being charged.
4. When the charging process is over the diode would shine green light and the device may be disconnected.

### Quantum DP-6 battery as a power supply source for Quantum DP flashes

- 1) Before connecting the flash to the battery make sure that both flash and battery are turned off (both switches are on OFF position), and connection cords are disconnected with the devices; and check the plugs and sockets technical condition.
- 2) Next, plug in the connection cord between flash and battery (supplied accessories) and tighten the locking pin.



#### CAUTION!

After plugging off the power cord from AC power source, inside the socket still occurs high-voltage current. It is forbidden to modify the sockets, plugs and connecting cords which are supplied with the battery. It is forbidden to use different cords than supplied by the Quantum. Modification of the device and connecting cords perform at one's own are forbidden and results in warranty void and cause a risk of serious device damage and electric shock. Contact immediately the authorized Quantum service center in case of any component damage.

- 3) Then, turn on the battery power supply by turning the switch (3) on BATT position. If the battery is full, the green READY diode would shine. If it requires charging red light occurs When READY diode (2) does not show any of the states (green or red), it is advised to stop using the device and contact the authorized Quantum service immediately.
- 4) After turning on the battery turn the lamp power switch on DC position.
- 5) To make sure that the flash is correctly connected, it is recommended to trigger the flash by using the TEST switch (placed on the flash back panel).
- 6) After triggering the flash the BATTERY diode (7) placed on the battery control panel, will shine red to indicate that the flash is charging

It is not possible to use modeling light when the flash is powered from Quantum DP-6 battery. Modeling light is automatically switched off after turning POWER switch to DC position. More details about the proper device usage are included in instructions manual of these devices.

Battery does not work after turning the switch (3) on BATT position if the flash is not connected.

During the intensive usage the battery may heat up. It is advised not to take more than 6 flashes consecutively.



#### CAUTION!

It is forbidden to connect the power cord and the Quantum DP-6 battery to the flash at the same time.  
It is forbidden to connect the Quantum DP-6 battery to the flash and using it during the charging process.  
Disobeying the given advice may cause the device damage.

### Powering the flash from car lighter socket

It is possible to supply the Quantum DP flash using the car lighter socket through the Quantum DP-6 battery. There are some advice how to do this:

- 1) Make sure that both the flash and the battery power switch (3) are turned on OFF position.
- 2) Plug in the Quantum DP-6 flash (using the car lighter cord; supplied accessory) to the Quantum DP-6 battery socket.
- 3) Connect the battery using Car Battery (6) with the car lighter socket through the car lighter cord (supplied accessory).
- 4) Turn the battery power switch (3) on CAR position.
- 5) Start up the flash turning the power switch on DC position. The flash indicates readiness for work by the READY diode.
- 6) To make sure that the flash is correctly connected it is recommended to trigger the flash using the TEST switch (placed on the flash cover).

In CAR mode Quantum DP-6 battery is not being charged, it only transmits the power directly from the car accumulator to the flash. Using of modeling light is not possible.

**The long-term usage of power supply from car lighter battery when car engine is turned off may results in discharging the vehicle's battery.**

## Accumulator replacement

The Quantum DP-6 battery construction allows user to replace accumulator on hi own. In order to do this the user should take following actions:

- (1) Make sure that the battery is disconnected from the charger and it is not connected to the flash and the switch (3) is on OFF position.
- (2) Open the cover of the accumulator chamber (4) which is placed on the right side of the battery main panel. To do this, slide the chamber door in the arrow direction till the moment of unlocking.
- (3) Remove the accumulator by pulling the loop which is placed on upper side of the accumulator cover.
- (4) In empty accumulator chamber put the new replacing the old one. The battery chamber is shaped in such way that it is impossible to attache accumulator inappropriately. If resistance occurs while fixing the accumulator it is advised to check accumulator position and try again. Do not use force while fixing the accumulator as it may result in the device damage.
- (5) After fixing the accumulator to the chamber it should be pushed inside till locking its body inside the cover.
- (6) The last activity is shutting the cover of the accumulator chamber (4). If the cover does not stick to the battery cover while locking the hatch and the resistance occurs, please check the position of accumulator. If the accumulator is fixed correctly the cover will lock easily. Then move the cover in opposite direction to the arrow till its locking.



### CAUTION!

It is forbidden to use different accumulator than supplied by Quantum.

It is forbidden to modify the accumulator construction.

Any construction changes of the device performed at one's own are forbidden and result in warranty void.

## Maintenance

1. Immediately turn off the flash and the battery in case of inappropriate working or suspicion that one of the devices or connecting wires are damaged.
2. The flash must be protected from sudden impact, hits and dustiness and please keep the cover clean.
3. The flash may heat up during work. It is normal, especially when the flash is often triggered.
4. Repair, maintenance and cleaning internal elements of the device should be performed by the authorized Quantum service. Modifications of the device at one's own or by unauthorized service results in warranty void.
5. It is forbidden to use the device in case of risk of being damaged, dusted or moisten. In this situation it is required to contact immediately the authorized Quantum service to inspect further usefulness of the device.
6. It is necessary to disconnect the device from the AC power supply and the flash before cleaning and moving from one place to another. The cover cleaning should be performed only with dry and soft cloth.

## Technical Data:

Power requirements:	DC16V 1A; DC12V
Output current:	AC340V; DC12V
Accumulator:	NiMH 3000 mAh
Charging time:	~300 min.
Number of flashes on full power:	~200 with Quantum DP-300 ~100 with Quantum DP-600
Cover dimensions:	171×76×180mm
Weight:	~1200g

Made in China

