

LITHIUM 2

MANUAL

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MANUAL LITHIUM 2

FOREWORD

Dear Customer,

Thank you for purchasing the LITHIUM 2 charger from ANSMANN. These operating instructions will help you to get the best from your charger. We hope you will be happy with your new charger.

Your ANSMANN Team

GENERAL

The LITHIUM 2 is a charger for 1-2 Lithium-Ion (Li-Ion) battery packs with 3.6V/3.7V of the sizes 26650, 22650, 18650, 18500, 17670, 16340, 14500 etc. or 1-2 NiMH Mignon AA / Micro AAA battery packs which can be charged independently. For operating the charger, you need a 5V DC USB adapter ideally with min. 2A output current (10W). The charger can be used with any USB port with min. 1A output current (5W), however the charging current halves to 500mA when two Li-Ion battery packs are charged.

INCLUDED IN PACK

Charger LITHIUM 2

USB cable with Micro USB plug

Instruction manual

SAFETY INSTRUCTIONS

- Please read these operating instructions carefully before using the charger!
- Do not use the device if there are any signs of damage to the housing, plug or cable. If you do find any damage to the unit, please contact an authorized dealer!
- Use only rechargeable 3.6-3.7V Li-Ion battery packs (e.g. 18650) or 1.2V NiMH Mignon AA or Micro AAA! Never insert non-rechargeable batteries (e.g. Alkaline or Lithium primary)!
Make sure batteries are inserted in the correct polarity (+/-)! Please note that only high performance brand rechargeable batteries should be charged with this device! Low quality cells may leak and damage the charger and invalidate the warranty!
- The warranty does not cover damages resulting from the use of unsuitable batteries!
- Keep the charger in a dry place!
- In order to avoid the risk of fire and/or electric shock, the charger must be protected against high humidity and water!
- Before cleaning the unit, disconnect it from the USB power source and only use a dry clean cloth!
- Never attempt to open any part of the device!
- Keep out of children's reach! Children should be supervised to ensure that they do not play with the charger or accessories!
- If the safety instructions are not followed, it may lead to damage to

the unit or could cause injury to the user!

- Remove the device from the USB power source after charging.

FUNCTIONAL OVERVIEW

- Charger for 1-2 Li-Ion battery packs (3.6V/3.7V) 26650, 22650, 18650, 18500, 17670, 16340, 14500 etc. or 1-2 NiMH battery packs (1.2V) Mignon AA / Micro AAA
- Includes Micro USB cable
- Individual charging slot monitoring and charging control
- Automatic detection of Li-Ion and NiMH batteries
- Charging starts automatically when a battery is connected in the correct polarity
- Microprocessor controlled charging (CC-CV for Li-Ion, 0dV/-dV for NiMH)
- Automatic battery full detection and completion of charging process
- Trickle charge function for NiMH batteries
- Indication of the charging status via 3 LEDs per charging slot
- Indicates batteries inserted with wrong polarity
- Operates via 5V DC USB adapter (not supplied)
- 3 years warranty

OPERATION

To operate the charger, connect the Micro USB connector of the charging cable to the charger and the USB connector to any USB power adapter with minimum 1A output current (e.g. your USB charger that you use for charging your smartphone). After connecting, the device performs a quick function test, each LED lights briefly.

With this charger you can charge 1-2 Li-Ion, 1-2 NiMH battery or each 1 Li-Ion and 1 NiMH battery at the same time and independently.

For charging the battery, pull back the silver negative (-) contact and insert the battery in the correct polarity (according to the plus and minus symbol shown in the charging slot). The microprocessor-controlled charger detects automatically the inserted battery and its voltage and chooses the right charging mode. Charging starts automatically and the charging status of each battery is indicated via 3 LEDs per slot (see LED DISPLAY).

It is normal for the batteries to become warm when charging. After the battery is fully charged all 3 LEDs light up permanently. NiMH batteries are held in a state of trickle charge after they are full.

LED DISPLAY

- 1 LED flashes: charging is in process, charging status < 30%
- 1 LED lights permanently /
1 LED flashes: charging is in process, charging status > 30% / < 60%
- 2 LEDs lights permanently /
1 LED flashes: charging is in process, charging status > 60% / < 100%
- 3 LEDs lights permanently: charging process completed / battery is fully charged
- 3 LEDs flashes: reverse polarity of battery, please insert correctly

ENVIRONMENT

Do not dispose of this charger in the normal household waste. Please return it to your dealer, nearest recycling centre or collection point. Please also recycle all packing materials.

CARE & MAINTENANCE

To make sure that the charger works properly, please keep the contacts free from dirt and dust. To clean the unit disconnect it from the mains and only use a dry clean cloth.

TECHNICAL DATA

- Input: 5V DC / min. 1000mA
- Output: 1x 3.6/3.7V / 1000mA (Li-Ion)
2x 3.6/3.7V / 500mA (Li-Ion)
1-2x 1.45V / 500mA (NiMH AA/AAA)
- Input: 5V DC / min. 2000mA
- Output: 1-2x 3.6/3.7V / 1000mA (Li-Ion)
1-2x 1.45V / 500mA (NiMH AA/AAA)

DISCLAIMER

Information in these operating instructions can be changed without prior notice. ANSMANN cannot accept liability for direct, indirect, accidental or other claims by not using this charger as indicated by these operating instructions. Consequential losses are not accepted at any time.

WARRANTY NOTICE

We hereby offer a 3 year warranty on this charger. This does not apply to damages caused by: low quality batteries leaking inside the charger, non-compliance of the operating instruction or physical damage due to lack of care.

Technical details subject to change without prior notice. No liability accepted for typographical errors or omissions. 10/2016