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Not Rated Yet

Sales price 24,95 €

Salesprice with discount
Incl. VAT 21%: 4,33 €

Description

VC4 is a professional processor loader with three-stage charging process **TC/CC/CV** and LCD display. It charges 1-4 Li-ion 3.6/3, 7V and Ni-MH cells with any capacity in the sizes AAA/R03, AA/R6, 10440, 14500, 14650, 16340, 17500, 17670, 18350, 18500, 18650, 18700. In the two extreme channels it is possible to charge the batteries in sizes R14, R20, 20700, 21700, 22650, 25500, 26650, 32650.

Key Features

- Charging of a three-stage processor-controlled Li-ion battery charging process TC/CC/CV
- Charging of Ni-MH rechargeable batteries by CC method
- Four independent charging channels
- Max. Charging current 1A
- LCD display for link voltage and charging current
- Informs about the current used to charge-the ability to measure the capacity of the cell (measurement error ± 5%)
- Powered by any USB charger with USB port or from a computer's USB

socket

- Reactivation function of deeply discharged cells
- Protection: Short-circuit, thermal, reverse polarity

Xtar VC4 LED backlit LCD display keeps track of the operating status of the charger: battery charging voltage, charging current, load used to charge cells, indicates Errors and informs you that the charging is complete. At the same time, the current operating status for two channels is displayed. Switching between the other two channels is possible with the CH button on the charger housing. Information on the load used can be used to measure the capacity of the batteries. To measure the capacity of the battery, it must be discharged to the appropriate voltage cut-off level (typically 2, 5V for Li-ion, 0, 9V for Ni-MH) and put into the VC4 charger. When charging is complete, you can read the value of the charge used to charge the battery. **This will Always be a value of 3-5% higher than the actual battery capacity. Due to the fact that the charging process of batteries is never in 100% efficient, ie. A slightly larger load is needed to charge the battery than the actual cell capacity is.**

The maximum charging current is 1A and is only available for two extreme channels and only when the middle channels are not used. The batteries in the middle channels are always loaded with a 0, 5A current. When charging 3 or 4 batteries, the VC4 charges all batteries with a 0, 5A current.

What Is THE TC/CC/CV charging method? It is a three-step process of loading Li-ion cells to keep the cell in good condition by charging the right current at each stage and completing the charging process at the right moment.
The various stages of the TC/CC/CV process are:
• TC phase: Cells discharged below 2, 9V are ' awake ' to lower currents.
• CC phase: When 2, 9V is reached, the cell is loaded with a constant current of 0, 1A to 1A (depending on the power source used and the number of batteries charged).
• CV phase: When the cell is already nearly charged, the charger switches to a decreasing current charge until it reaches a voltage of 4, 2V on the cell. After reaching 4, 2V the charging process is complete-the battery is fully charged.

When left in the charger, the charged batteries will be subjected to a natural self-discharge process. Charging the Li-ion battery will resume when the battery voltage drops below the
3, 9V. For Ni-MH rechargeable batteries, charging is not resumed with a drop in voltage resulting from self-discharge.

The **Xtar VC4** Charger has a function of reactivating deeply discharged cells and cells with a Voltage Of 0v. Many chargers on the market are not able to charge such batteries. Here with the help comes the charger **Xtar VC4**, which in many cases allows you to ' resave ' such cells. Just insert a deeply discharged battery into the VC4 charger, as with normal charging, the

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charger detects the unloaded link and attempts to reactivate it. **Attention! Cells unloaded below a certain level are irreversible and reactivated may not be possible. Excessive discharge of Li-ion and Ni-MH batteries should be avoided-this may lead to a significant reduction in their durability and capacity or to their total malfunction.**

Included with the **Xtar VC4** charger, we GET a USB cable. **The power supply is not Included In the set.** Any charger with a USB cable, for example, is enough to power the charger. Phone, or USB port or a computer with a free USB socket. The recommended power of the USB power adapter is 2, 1A (2100mA). It is possible to use a weaker power supply, the VC4 will adjust the charging current to the power source.

Product data	
Manufacturer	Xtar
Charger Model	VC4
Supported Battery types	1-4 Rechargeable Li-Ion 3.6 batteries-3, 7V, secured and unprotected 1-4 Rechargeable Ni-MH Batteries
Supported Battery Sizes	AAA, AA, R14, R20, 10440, 14500, 14650, 16340, 17500.17670, 18350, 18500, 18650, 18700, 20700, 21700, 22650, 25500, 26650, 32650 R14, R20, 20700, 21700, 22650, 25500, 26650-only in two extreme channels (1 and 4)
Maximum battery length	71mm
Charging method	Li-ion-processor-controlled TC/CC/CV NiMH-controlled processor CC
Charging	1-2 rechargeable batteries placed in the extreme channels (1 and 4)-Max 1000mA ± 80mA 3-4 rechargeable batteries or 1-2 batteries placed in central channels (2 and 3)-Max 500mA ± 50mA
End Voltage Li-Ion Charging	4, 2V ± 0, 05V
Current of Li-ion terminations	< 80mA
LCD Display functions	Current indications: Operating/Charging status Charging Battery voltage

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	The load used to charge the cells
Additional functions	Reactivation of deeply discharged cells and cells 0V Cell capacity measurement (accuracy ± 5%)

Input voltage and Input current: 5V 2100mA
Power supply included: Not
Recommended power supply: Minimum 5V 2, 1A
Dimensions: 149 x 115 x 35 mm
Weight: 210 g
Kit contents: VC4 Charger, USB Cable
Warranty: 24 months
Made in PRC.

Xtar

Founded in 2006, XTAR is an electronic technology company that integrates R&D, production, sales and service in Shenzhen. XTAR has been specializing in the development and manufacture of high quality Li-ion batteries, smart chargers, and LED flashlights for over 17 years.