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## ABOUT XTAR

The name XTAR, derived from X-STAR, representing the innumerable unknown stars, brings us an infinite imagination and expectation. XTAR logo consists of spherical figure and characters, implying the modest spirit of our company, XTAR being tolerant to diversity and our aspirations towards continuing development and innovation.

XTAR brand came into conception and determined to make high quality chargers, flashlights and batteries in 2006. In 2007, Shenzhen Winner Bros Import & Export Co., Ltd was established in Shenzhen, China. Two years later, Hong Kong XTAR Co., Ltd was established for the international market. With the concept and the determination of making China's Got Quality and 8 years' hard working, we finally have made our concept a reality. A reality that XTAR is known worldwide and distributors are all over the world. With the rapid development of XTAR, our own factory was set up and in the meantime, Shenzhen XTAR Electronics Co., Ltd was found in 2014.

XTAR products obtain more than 30 patents and are selling well in 120 countries including USA, Germany, Australia, Japan, Korea, Russia and so on. The high quality of XTAR products make it possible not only to pass CE, ROHS and other major certificates, but also certificates like UL, PSE, SAA, MEPS, C-Tick etc.

XTAR team dedicate themselves to creative design, high quality control and wholehearted after-sale service to make it an enjoyment when people are using XTAR products or talking with XTAR team.

XTAR always believe in China's Got Quality.

## INTRODUCTION

XTAR VC2 is a two-channel independent USB Li-ion battery LCD charger. The LCD screen display is with unique digital instrument panel design, shows the charging voltage and current. VC2 is capable of calculating the capacity of battery having been charged and tells users on the LCD screen simultaneously. With friendly interface, simple and convenient operation and reliable working system, customers can easily and safely use VC2 at our best quality guarantee.

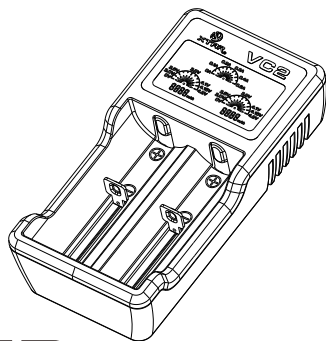
## FEATURES & SPECIFICATIONS

### ■ Intelligent charge current parameter:

- Apply to two pcs 10440/14500/14650/16340/17500/17670/18350/18500/18650/18700/22650/25500/26650 3.6/3.7V Li-ion batteries;
- Compatible with IMR lithium batteries and small capacity batteries;
- Each channel is independent;
- Three-stage charge algorithm(TC-CC-CV) which is the best charging method for li-ion battery;
- Automatically change to the suitable charging current according to input power;
- Capable of calculating the charged capacity for batteries;
- Soft-start function, to avoid damage from large charge current while charging;



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# VC2

## INTELLIGENT USB LCD CHARGER MANUAL

- Precise cut-off voltage at 4.2V and automatically cut off when the battery is charged fully;
- LCD screen interface with unique digital instrument panel design;
- LCD displays each battery real time status;
- Apply high power intelligent PWM technology, significantly reduce energy loss;
- Built-in reverse-polarity and short-circuit protection circuit;
- Apply fireproof material for the shell;
- 0V activation function can wake up the over-discharged sleeping batteries;
- Compatible with all kinds of USB port power supply;
- Smartly identify bad batteries and notify the users.

### ■ SPECIFICATIONS:

|                                 |                |
|---------------------------------|----------------|
| Input Power                     | DC 5.0V 1.0A   |
| Max Constant Charging Current   | 500 mA x 2     |
| Cut-off Voltage(Output Voltage) | 4.20V          |
| Cut-off Current                 | ≤80mA          |
| Working Temp                    | 0-40 °C        |
| Net Weight                      | 109g           |
| Dimensions                      | L131*W66*H33mm |

## LCD DISPLAY INSTRUCTION

### ■ Current Instrument Display:

- Current Instrument scales from 0A—0.5A, increase 0.05A progressively.
- Dial pointer to default 0.5A when standby.
- Dial pointer reading represents the charging current during charging time, and two channels share one current dial to display the charging current.

### ■ Voltage Instrument Display:

- Voltage Instrument scales from 0V - 4.2V.
- Dial pointer to 0V when charger standby or battery being activated or at TC charging stage.
- Dial pointer to certain reading while battery at CC/CV charging stage or charged. Each channel has an independent dial to display real time voltage of the batteries.
- Dial pointer to " 4.2V " when the battery is full.

### ■ Dial reading is corresponding to battery voltage range, and it changes as battery voltage increasing while charging. 0V dial reading under below circumstances:

- No battery inserted;
- Short-circuit occurs between the channel poles;
- Battery voltage less than 2.90V;

