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› Diyeeni EV2400 Battery Metering Chip Programmer User Manual

Diyeeni Diyeeniht0rsg5xwf

Diyeeni EV2400 Battery Metering Chip Programmer User Manual

Model: Diyeeniht0rsg5xwf

1. INTRODUCTION

The Diyeeni EV2400 Battery Metering Chip Programmer is a professional tool designed for debugging and managing battery metering chips. It supports various battery types, including those found in UAVs (drones) and laptops, specifically compatible with BQ series chips such as BQ9003, BQ30Z55, and BQ40Z50. This device facilitates communication via IIC, SMBus, and HDQ protocols, enabling users to perform advanced functions like unlocking batteries, modifying capacity and cycle count, and resolving charging/discharging abnormalities. This manual provides essential information for the proper setup, operation, and maintenance of your EV2400 programmer to ensure optimal performance and longevity.



Image: A clear front view of the Diyeeni EV2400 Battery Metering Chip Programmer, showing its compact white casing, indicator lights, and connection interface.

2. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- 1 x EV2400 Battery Metering Chip Programmer (Battery Downloader)
- 1 x USB Cable
- 1 x Wire (Jumper Wires)
- 1 x Flat Cable



Image: The EV2400 programmer unit shown alongside its blue USB cable, a set of colorful jumper wires, and a grey flat cable, representing the complete package contents.

3. KEY FEATURES

- **Software Support:** Compatible with bqstudio and official website debugging software, allowing for battery repair and modification of power meter parameters.
- **Communication Protocols:** Supports IIC, SMBus, and HDQ telecommunication protocols for versatile connectivity.
- **Enhanced Functionality:** Enables unlocking of batteries, modification of capacity and cycle count, and resolution of charging and discharging abnormalities.
- **Broad Compatibility:** Works with BQ series chips and is suitable for laptop and drone batteries, including specific compatibility with Air 1, Air 2, and Air Pro models.

- **Status Indicators:** Equipped with a power indicator and a USB data status indicator for easy monitoring of device activity.
- **Static Protection:** Provides static protection for each output to enhance device durability and safety.



Software Support

Support bqstudio

Support official website debugging software,
same function as official website EV2400

Upgrade Version

Add static protection for each output
Support IIC, SMBUS, HDQ telecommunication.
With power indicator, telecommunication
indicator and USB data status indicator

Image: The EV2400 programmer connected to a laptop, demonstrating its use with debugging software for battery management, with text highlighting its software support and upgrade features.

4. SETUP GUIDE

1. **Connect the Programmer:** Connect the EV2400 programmer to your computer using the provided USB cable. The device should be recognized by your operating system.
2. **Install Software:** Download and install the appropriate debugging software (e.g., bqstudio or official website debugging software) on your computer. Refer to the software provider's instructions for installation.
3. **Connect Battery:** Use the provided flat cable or jumper wires to connect the EV2400 programmer to the

battery's communication interface. Ensure correct pin assignments (Vref, SMBD, SMBC, GND, HDQ, SDA, SCL, DQ) as indicated on the programmer and the battery's datasheet. Incorrect connections can damage the device or battery.

4. **Power On:** Once connections are secure, power on the battery (if applicable) and launch the debugging software on your computer.



Image: A side view of the EV2400 programmer, highlighting the USB port for computer connection and the labeled pins for battery interface, with indicator lights visible.

5. OPERATING INSTRUCTIONS

Operating the EV2400 programmer primarily involves interaction with the dedicated software. The following steps outline a general workflow:

1. **Software Recognition:** Ensure the debugging software recognizes the EV2400 programmer and the

connected battery. The power indicator and USB data status indicator on the device should confirm active connection.

2. **Read Battery Data:** Use the software interface to read current battery parameters, such as capacity, cycle count, voltage, and temperature.
3. **Modify Parameters:** If necessary, use the software to modify specific battery parameters. This may include adjusting capacity, resetting cycle counts, or unlocking protected battery states. Exercise caution when modifying parameters, as incorrect values can affect battery performance or safety.
4. **Perform Debugging:** Utilize the software's debugging features to diagnose and resolve issues like charging/discharging abnormalities or communication errors.
5. **Save Changes:** After making any modifications, ensure you save the changes through the software to apply them to the battery's metering chip.
6. **Disconnect Safely:** Once operations are complete, safely disconnect the battery from the programmer and then the programmer from the computer.

For detailed instructions on specific software functions and advanced operations, please refer to the documentation provided with your chosen debugging software (e.g., bqstudio user guide).



Wide range of applications

Can be used to read and write for BQ series battery metering chip, read, unlock, modify parameters of for DJI laptop batteries and drone batteries, and other types of development

Function

Support battery unlocking, capacity modification, cycle count modification, no light abnormality, battery charging and discharging abnormality, modification of other power meter parameters, provide professional passwords



Image: A user operating the EV2400 programmer, connected to a laptop, with hands on the keyboard, indicating active software interaction for battery debugging.

6. MAINTENANCE

- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for cleaning. Avoid liquid cleaners.
- **Storage:** Store the programmer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle cables gently. Avoid bending or twisting them excessively to prevent internal damage.
- **Software Updates:** Regularly check for software updates for your debugging application to ensure compatibility and access to the latest features and bug fixes.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not recognized by computer.	USB cable issue, driver not installed, or port malfunction.	Try a different USB port or cable. Ensure necessary drivers for the EV2400 or debugging software are installed.
Software cannot communicate with the battery.	Incorrect battery connection, incompatible chip, or software configuration error.	Verify all pin connections are correct and secure. Confirm the battery chip is supported by the EV2400 and the software. Check software communication settings.
Battery parameters cannot be modified.	Battery is locked, incorrect access permissions, or software limitation.	Ensure the battery is unlocked (if applicable). Refer to the software documentation for required permissions or specific procedures for parameter modification.

8. SPECIFICATIONS

Item Type	EV2400 Battery Metering Chip Programmer
Material	ABS
Supported Chips	BQ series (e.g., BQ9003, BQ30Z55, BQ40Z50, BQxxxx power meter chips)

Communication Protocols	IIC, SMBus, HDQ Telecommunication
Model Number	Diyeeniht0rsg5xwf
Package Dimensions	6.3 x 3.94 x 1.18 inches
Item Weight	75 Grams (2.65 ounces)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact Diyeeni customer service. Keep your purchase receipt as proof of purchase.

For software-related inquiries, consult the official documentation or support channels for bqstudio or the specific debugging software you are using.