Hobbywing Data Link (V2)

Hobbywing Data Link (V2) User Manual

Comprehensive guide for the Hobbywing Data Link (V2) communication device.

1. Product Overview

The Hobbywing Data Link (V2) is an advanced communication device designed for industrial use, specifically with Hobbywing's X-Series power systems. It integrates data collection, data storage, and data transmission capabilities. This device enables real-time monitoring of power system status when used with aircraft control equipment, and it records flight data. By analyzing fault data and monitoring aircraft operation, the Data Link (V2) significantly enhances flight safety and reliability.

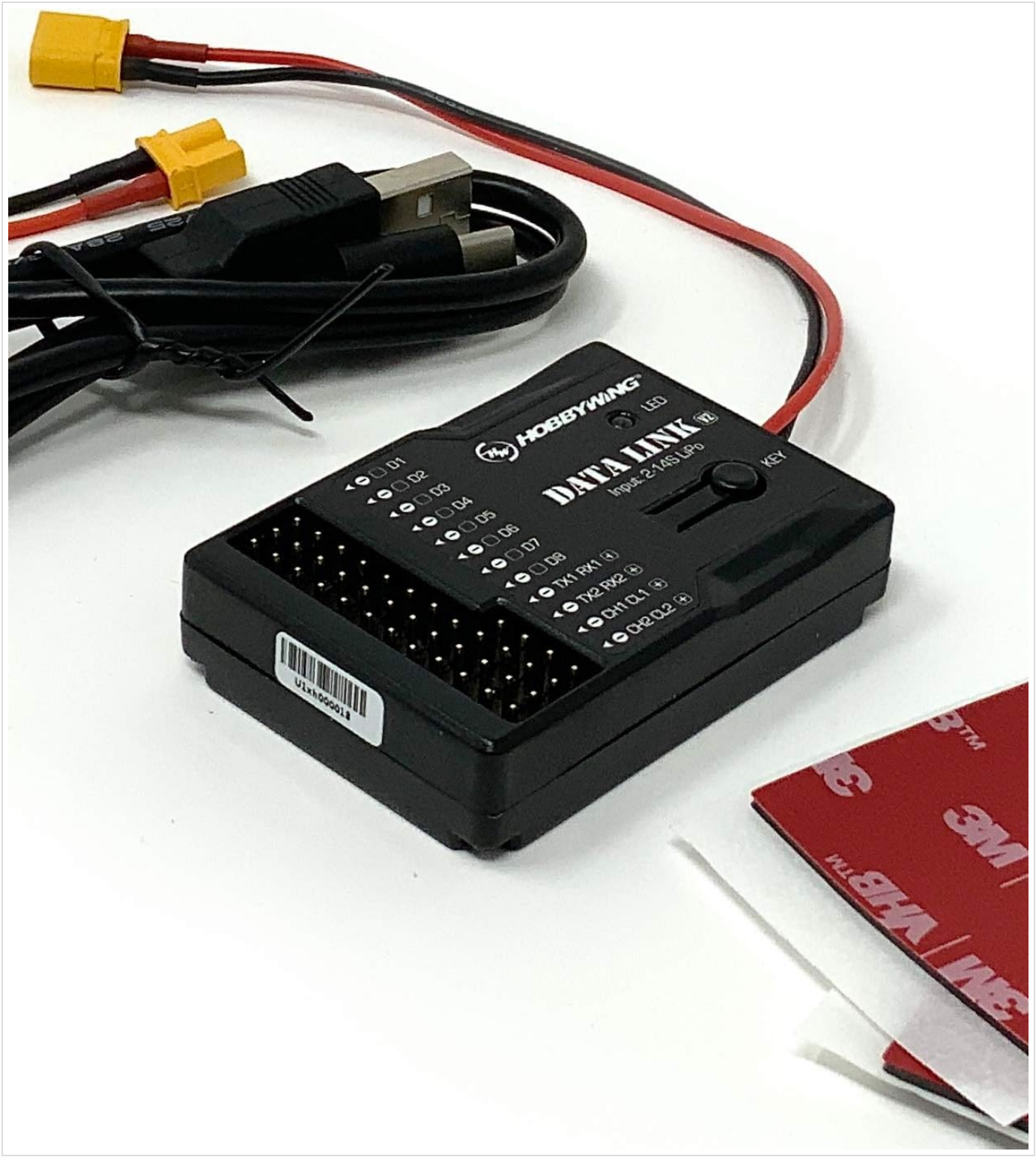


Figure 1: The Hobbywing Data Link (V2) unit, showing its compact design, various ports, and included connection cables (USB and power). The device features an LED indicator and a 'KEY' button.

2. Key Features

- **Comprehensive Data Integration:** Combines data collection, storage, and transmission functionalities.
- **Real-time Monitoring:** Monitors the running status of the power system in real time when paired with aircraft control equipment.
- **Flight Data Recording:** Records critical flight status data for later analysis.
- **Enhanced Safety & Reliability:** Analyzes user's fault data and monitors aircraft operation to significantly improve safety.

- **Data Storage:** Equipped with 128MB memory card for data storage.
- **Firmware Upgrades:** Supports upgrading firmware for both ESCs (Electronic Speed Controllers) and the Data Link device itself.
- **Compatibility:** Works seamlessly with Hobbywing XRotor Pro X6, X8, and X9 Series for industrial and commercial applications.

3. Technical Specifications

Specification	Value
Input Power	2-14S LiPo (PC only)
Dimensions (L x W x H)	57mm x 40mm x 13mm
Internal Storage	128MB (memory card)
ASIN	B08XWCDXBJ
UPC	088718500401
Manufacturer	Hobbywing Technology

4. Setup Guide

To set up your Hobbywing Data Link (V2), follow these steps:

1. **Connect to PC:** Use the provided USB cable to connect the Data Link (V2) device to your computer. Ensure the necessary drivers are installed if prompted by your operating system.
2. **Power Connection:** Connect the Data Link (V2) to a 2-14S LiPo power source. This powers the device for operation and data collection.
3. **Connect to ESC/Power System:** Connect the Data Link (V2) to your Hobbywing XRotor Pro X6, X8, or X9 Series ESC or power system using the appropriate communication port. Refer to your ESC manual for specific connection points.
4. **Software Installation:** Install the Hobbywing PC software (if not already installed) required for data analysis, firmware updates, and configuration. This software is typically available on the official Hobbywing website.
5. **Initial Check:** Once connected, observe the LED indicator on the Data Link (V2) to confirm proper power and communication status.

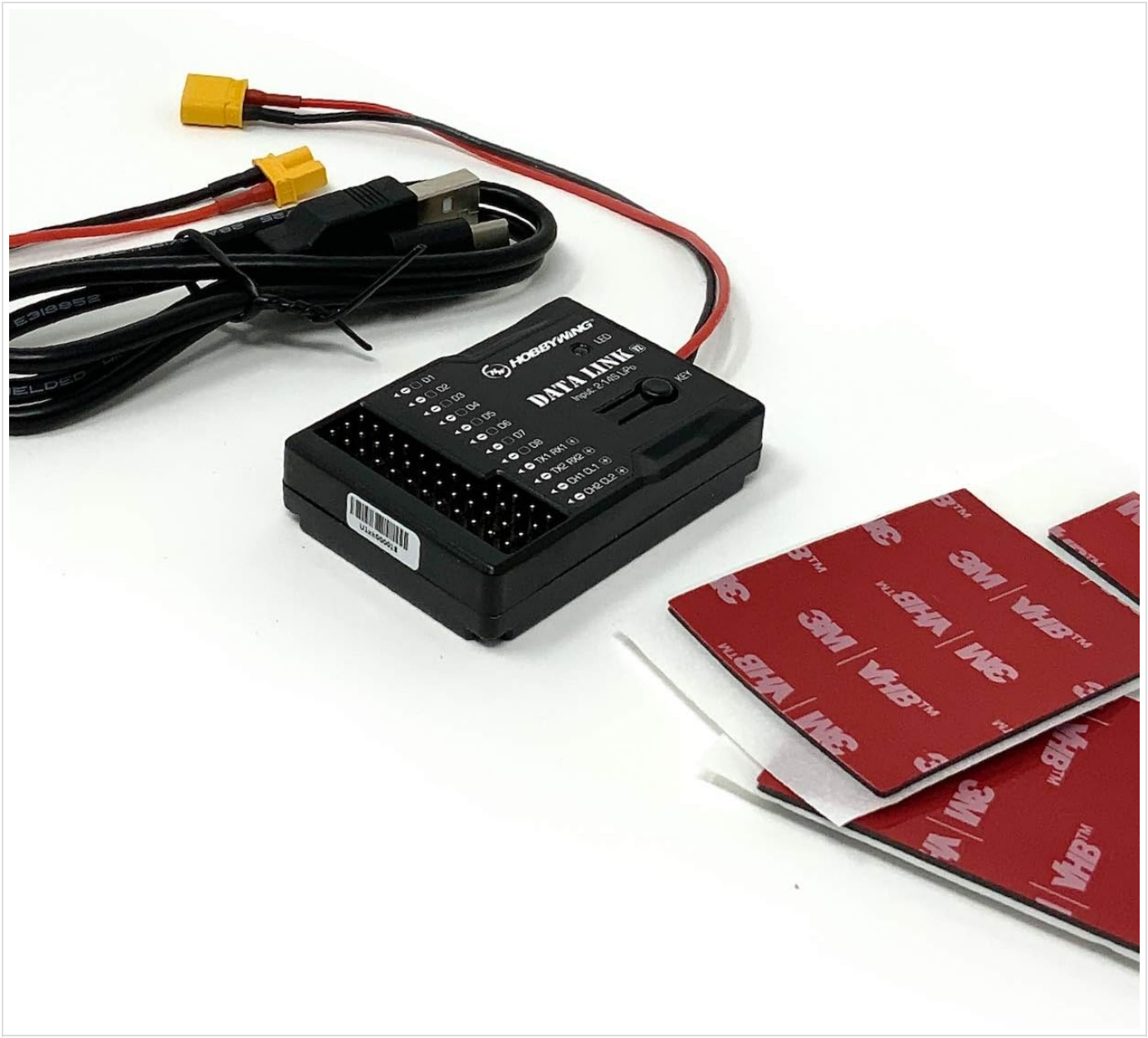


Figure 2: The Data Link (V2) unit with its USB cable and power input cable clearly connected, illustrating the primary setup for PC communication and power supply.

5. Operation

The Data Link (V2) operates as an intermediary device for monitoring and managing your Hobbywing X-Series power systems. Its primary functions include:

- **Real-time Data Monitoring:** When connected to your aircraft's power system and control equipment, the Data Link (V2) continuously collects and transmits real-time operational data. This data can be viewed and analyzed via the Hobbywing PC software.
- **Flight Data Recording:** The device automatically records flight status data to its internal 128MB memory card. This recorded data can be retrieved later for post-flight analysis, performance review, and troubleshooting.
- **Fault Data Analysis:** The Data Link (V2) assists in analyzing fault data, providing insights into potential issues or anomalies during operation. This feature is crucial for diagnosing problems and improving the reliability of your aircraft.
- **Firmware Updates:** Utilize the Data Link (V2) and the Hobbywing PC software to update the firmware of compatible Hobbywing ESCs (e.g., XRotor Pro X6, X8, X9 Series) and the Data Link (V2) itself. Regular firmware updates ensure optimal performance and access to new features.

To access recorded data or perform firmware updates, ensure the Data Link (V2) is connected to your PC and the Hobbywing software is running. Follow the on-screen instructions within the software for specific operations.

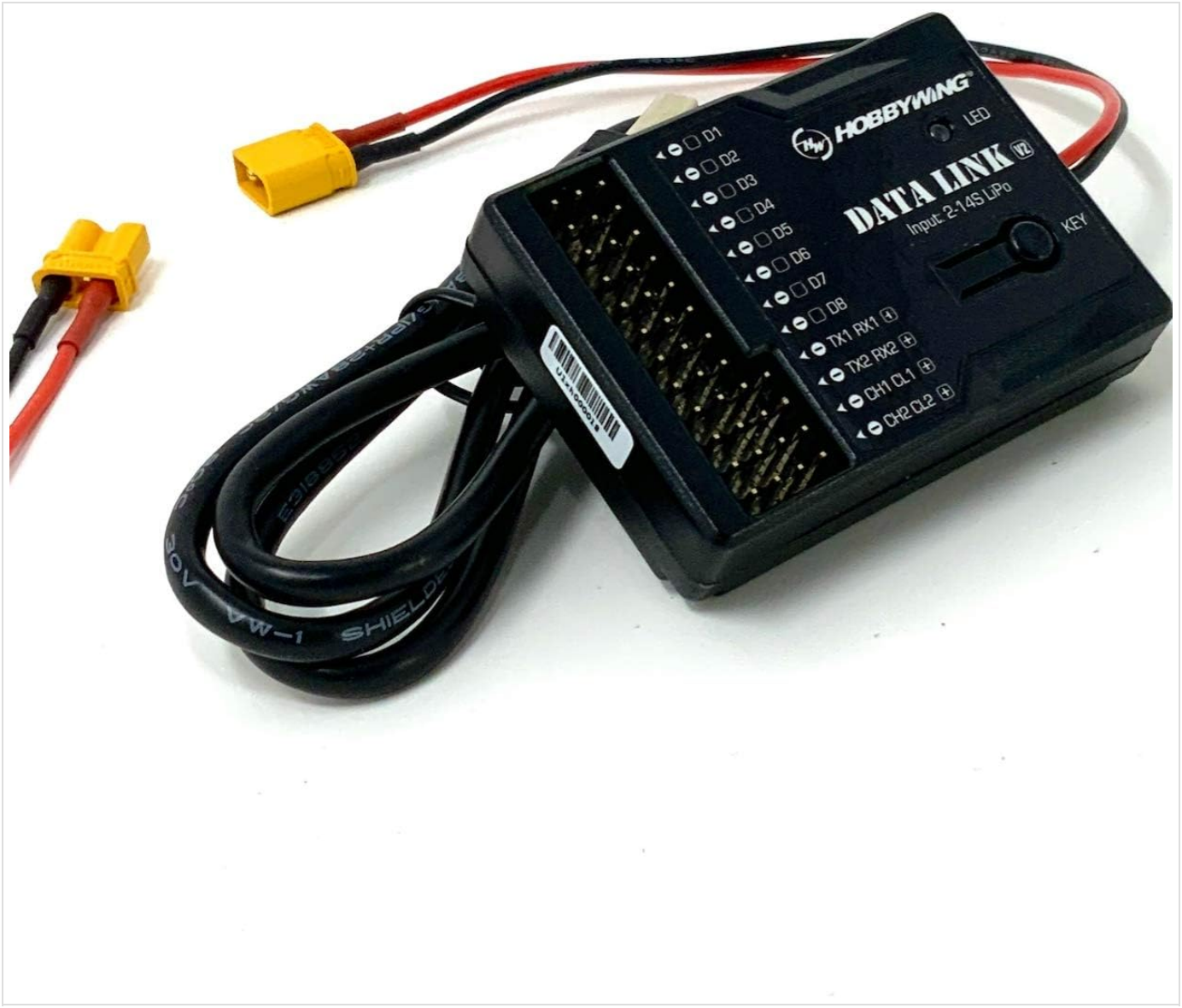


Figure 3: A closer view of the Hobbywing Data Link (V2) device, highlighting its multiple pin connectors and ports for various data and power connections, essential for its operational capabilities.

6. Maintenance

Proper maintenance ensures the longevity and reliable operation of your Data Link (V2) device:

- **Keep Clean:** Regularly wipe the device with a soft, dry cloth to remove dust and debris. Avoid using liquid cleaners or solvents.
- **Storage:** Store the Data Link (V2) in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity when not in use.
- **Inspect Cables:** Periodically check all connecting cables (USB, power, communication) for any signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Firmware Updates:** Keep the device's firmware updated to the latest version. This often includes performance improvements and bug fixes.
- **Handle with Care:** Avoid dropping the device or subjecting it to strong impacts, as this can damage internal components.

7. Troubleshooting

If you encounter issues with your Data Link (V2), consider the following troubleshooting steps:

- **Device Not Powering On:**
  - Ensure the 2-14S LiPo power source is correctly connected and fully charged.
  - Verify that the power cable is securely plugged into the Data Link (V2).
- **No Communication with PC:**
  - Check the USB cable connection to both the Data Link (V2) and your computer. Try a different USB port.
  - Ensure the Hobbywing PC software is installed and running.
  - Verify that the necessary USB drivers are installed on your computer.
  - Try restarting your computer and the Data Link (V2).
- **No Data Recording/Monitoring:**
  - Confirm that the Data Link (V2) is properly connected to the ESC/power system.
  - Ensure the power system is operational and transmitting data.
  - Check if the internal 128MB memory card is full or corrupted.
- **Firmware Update Failure:**
  - Ensure a stable USB connection during the entire update process.
  - Do not disconnect power or USB during a firmware update.
  - Download the correct firmware file for your device and ESC from the official Hobbywing website.

If these steps do not resolve the issue, please refer to the official Hobbywing support resources or contact their customer service.

8. Warranty and Support

Hobbywing provides an official manufacturer warranty for its products. Please note the following important information regarding warranty and support:

- **Official Warranty:** The product is covered by the official Hobbywing manufacturer warranty.
- **Authorized Dealers:** Purchases from non-authorized stores (e.g., Hong Kong, Chinese stores not authorized in North America) may deem items non-warranty. Always purchase from authorized Hobbywing dealers to ensure warranty coverage.
- **Liability Disclaimer:** Hobbywing North America is not responsible for typographical errors in documentation. They assume no liability for damages, losses, or costs resulting from incorrect use, installation, application, or maintenance of their products. Any claims arising from operation, failure, or malfunctioning will be denied if not related to manufacturing defects.
- **Limitation of Compensation:** As far as legally permitted, the obligation to compensation is limited to the invoice amount of the affected product.
- **Contact Support:** For further information, warranty claims, or technical support, please contact Hobbywing North America directly. Their online store, HobbywingDirect.com, is a primary resource for support.

It is crucial to read the product manual carefully, especially concerning high-power systems, as they can be dangerous if not handled correctly.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question