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› **GP RECYKO Pro P461 USB Charger and D461 Charging Dock User Manual**

## GP GPRCPCHP461D464

# GP RECYKO Pro P461 USB Charger and D461 Charging Dock User Manual

Model: GPRCPCHP461D464

## INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient use of your GP RECYKO Pro P461 USB Charger and D461 Charging Dock. Please read this manual thoroughly before operation and retain it for future reference.



Figure 1: GP RECYKO Pro P461 USB Charger inserted into the D461 Docking Station.

## IMPORTANT SAFETY INFORMATION

To ensure safe operation and prevent damage, observe the following precautions:

- Use only with NiMH rechargeable batteries. Do not attempt to charge disposable batteries.
- Ensure correct battery polarity when inserting batteries into the charger.
- Do not disassemble, modify, or short-circuit the charger or batteries.
- Avoid exposing the charger to water, moisture, or extreme temperatures.
- Keep out of reach of children.
- Unplug the charger from the power source when not in use or during cleaning.
- The charger features automatic power shutdown, dV full charge detection, and temperature shutdown to prevent overcharge, overvoltage, and short circuits.

- If defective or disposable batteries are inserted, a red LED will flash quickly. Remove immediately.

## PACKAGE CONTENTS

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Verify that all items are present in your package:

- 1 x GP P461 USB Charger
- 4 x GP ReCyko PRO AA Batteries (2000 mAh)
- 1 x GP D461 Docking Station
- 1 x USB Charging Cable

# Lieferumfang.



**RECYKO**

Instruction Manual



Figure 2: Included components: P461 charger, D461 docking station, 4 AA batteries, and USB cable.

## PRODUCT OVERVIEW

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### GP RECYKO Pro P461 USB Charger

The P461 is a 4-slot USB charger designed for NiMH AA and AAA batteries. It features individual charging channels, smart safety functions, and LED indicators for charging status.

### GP RECYKO Pro D461 Docking Station

The D461 docking station enhances the P461 charger by providing a vertical charging concept, an LCD display for detailed battery information, and advanced battery analysis functions such as capacity checking and recovery. It is compatible with GP RECYKO chargers B421, M451, and P461.



Figure 3: Rear view of the P461 charger, showing input (DC 5V=2A) and output specifications for AA and AAA batteries.

## SETUP

1. **Connect the Docking Station (Optional):** If using the D461 docking station, connect the provided USB charging cable to the USB input port on the D461 and then to a compatible USB power adapter (DC 5V/2A recommended, not included).
2. **Insert the P461 Charger:** Place the P461 USB Charger into the D461 Docking Station. The vertical design ensures a secure fit.
3. **Connect the P461 Charger Directly (Alternative):** If not using the docking station, connect the USB charging

cable directly to the P461 charger's USB input port and then to a compatible USB power adapter.

4. **Power On:** Once connected, the charger/dock will power on. The green LED on the P461 charger will flash for 0.5 seconds and then turn off, indicating it's ready.







Figure 4: The vertical charging concept of the P461 charger within the D461 docking station, designed for space-saving.

## OPERATING THE P461 USB CHARGER

### Inserting Batteries

Insert 1 to 4 AA or AAA NiMH rechargeable batteries into the charging slots, ensuring correct polarity (+/-). The charger can accommodate both AA and AAA battery sizes simultaneously.

### LED Indicators

- **Power On:** Green LED flashes 0.5s and turns off.
- **Charging:** Green LED flashes slowly.
- **Fully Charged:** Green LED lights solid.
- **Defective/Disposable Batteries:** Red LED flashes quickly. Remove the battery immediately.

### Charging Times (Approximate)

(Input DC 5.0V 2A min, for 2 batteries)

- 2000 mAh AA battery: Approximately 80 minutes
- 800 mAh AAA battery: Approximately 80 minutes

For 4 x 2000mAh AA batteries, charging takes approximately 2.6 hours.

# LCD Display.

Zeigt Ladestatus,  
Batteriekapazität  
und -zustand an

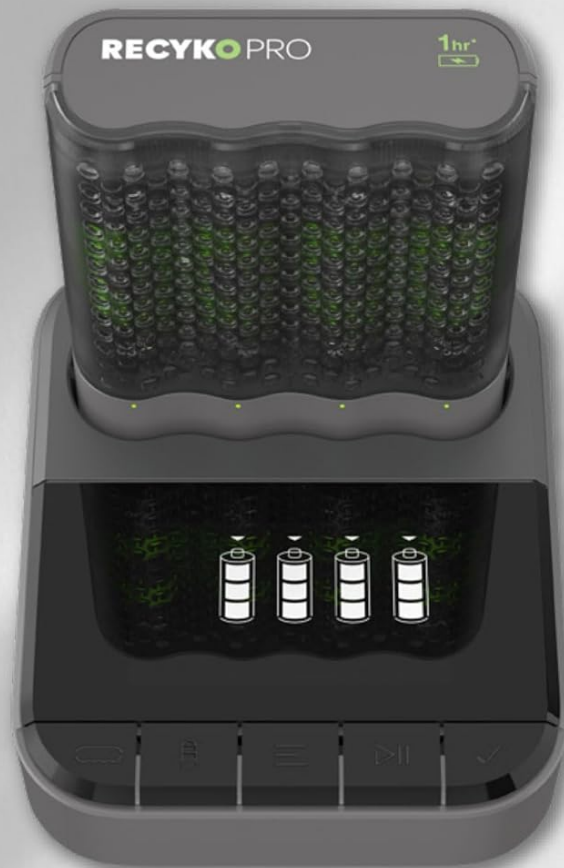


Figure 5: The GP RECYKO Pro charger provides fast charging, enabling quick readiness for devices like RC cars. \*For 2 Recyko AA 2100mAh batteries.

## OPERATING THE D461 DOCKING STATION

When the P461 charger is inserted into the D461 docking station, the LCD display on the dock provides enhanced information and control.

### LCD Display Functions

The LCD display shows the charging status and battery status for each individual battery. It also alerts if disposable or defective batteries have been inserted.

# Kapazitäts-Überprüfung.

- Überprüfung der vollen Kapazität
- Überprüfung der verbleibenden Kapazität



Figure 6: The D461's LCD display indicates charging status, battery capacity, and overall battery condition.

## Advanced Battery Analysis

The D461 docking station offers advanced functions for individual batteries:

- **Capacity Check:** Verify the full and remaining capacity of your batteries.
- **Battery Recovery/Conditioning:** Restore and improve the condition of older or worn batteries.



# Akku Erholung.

- Akku Konditionierung
- Kapazitäts-Wiederherstellung



Figure 7: The D461 allows for checking both full and remaining battery capacity.

# Sicheres Aufladen.

Automatische Stromabschaltung  
zur Vermeidung von Überladung,  
Überspannung und Kurzschlüssen



Automatische  
Abschaltung



Figure 8: The D461 offers battery conditioning and capacity restoration features.

## Charging Modes

The D461 docking station provides two charging modes:

- **Fast Charging:** Charges batteries quickly (e.g., 1.3 hours for certain battery types).
- **Eco Mode:** A slower charging mode (e.g., 4 hours) which can be beneficial for battery longevity.

## MAINTENANCE

- **Cleaning:** Disconnect the charger and dock from power. Use a dry, soft cloth to wipe the surfaces. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger, dock, and batteries in a cool, dry place away from direct sunlight and extreme temperatures. The P461 charger's sturdy case can serve as a battery holder for safe storage.
- **Battery Care:** For optimal performance and longevity, fully charge new batteries before first use. Avoid completely

discharging batteries frequently.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger LEDs not lighting up.	No power connection.	Ensure the USB cable is securely connected to both the charger/dock and a powered USB adapter. Check the power source.
Red LED flashes quickly.	Defective or disposable battery inserted.	Remove the battery immediately. Only charge NiMH rechargeable batteries.
Batteries not charging or charging slowly.	Incorrect battery insertion, low power input, or very old/damaged batteries.	Check battery polarity. Ensure USB power adapter provides DC 5V/2A. Try the battery recovery function on the D461 dock if available. Replace very old batteries.
D461 LCD display not working.	P461 charger not properly seated in the dock, or dock not powered.	Ensure the P461 charger is fully inserted into the D461 dock. Check the USB power connection to the D461.

## SPECIFICATIONS

### GP RECYKO Pro P461 USB Charger

- **Dimensions:** Approx. 68 (L) x 84 (W) x 26 (H) mm
- **Weight:** Approx. 62g
- **Number of Slots/Channels:** 4 / 4
- **USB Input Power:** DC 5.0V / 2A
- **Output Voltage/Charging Current (AA):** DC 1.4V / 1.73A (1-2 batteries), DC 1.4V / 0.87A (3-4 batteries)
- **Output Voltage/Charging Current (AAA):** DC 1.4V / 0.7A (1-2 batteries), DC 1.4V / 0.35A (3-4 batteries)
- **Safety Features:** Timer shutdown (3 hours), dV full charge detection, Temperature interruption, Primary battery protection, Reverse polarity protection.

### GP RECYKO Pro D461 Docking Station

- **Dimensions:** Approx. 100.5 (L) x 82 (W) x 27 (H) mm
- **Weight:** Approx. 100.5g
- **USB Input Power:** DC 5.0V / 2A
- **Output Voltage/Charging Current:** DC 5V / 2.1A
- **LCD Display:** 26 x 46 mm
- **Safety Features:** Timer shutdown (6 hours), Full load detection, Temperature shutdown.
- **Compatible Chargers:** B421, M451, P461 (4-slot USB chargers)

### GP RECYKO PRO AA Batteries (2000mAh)

- **Type:** NiMH
- **Capacity:** 2000 mAh
- **Size:** AA

# Vertikales Ladekonzept.

Stromlinienförmig und platzsparend



Figure 9: The charger and dock incorporate automatic power shutdown to prevent overcharging, overvoltage, and short circuits, ensuring safe operation.

## WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official GP Batteries website or contact their customer service department. Keep your purchase receipt as proof of purchase.

**Manufacturer:** GP Batteries

**Website:** [www.gpbatteries.com](http://www.gpbatteries.com)