



# MiniPak

## USER GUIDE

## SYSTEM OVERVIEW

The MiniPak micro-fuel cell power supply is a universal handheld charger and power extender compatible with devices requiring DC 4.2V-5V and about 300MA power input. The system includes several adaptor tips for charging different cellphones, GPS, digital cameras, etc., and can power numerous 5V DC devices.

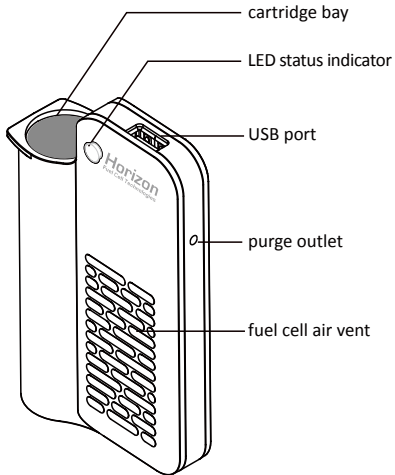
Please read the following information carefully to avoid potential damage to the device.

LED status indicator light:

- Flashing red = Start up/Shut down
- Flashing blue = Ready
- Continuous blue light = Working

Accessories included in this box:

- MiniPak sealable protective bag
- Cellphone charging tips



# SPECIFICATIONS

MiniPak <sup>®</sup> handheld fuel cell power supply	
Rated Net Power	1.5 W
Voltage Output	3.8-5V
Size (Dimensions)	13in <sup>3</sup> (4.5x2.7x1.1 in)/214 cm <sup>3</sup> (11.5x6.9x 2.7 cm)
Weight (without cartridge)	4.2 oz / 120g
Weight (with cartridge)	7.4 oz / 210g
Electrical Interface	USB port
User Interface	LED status indicator
Operating Environment	0-35°C

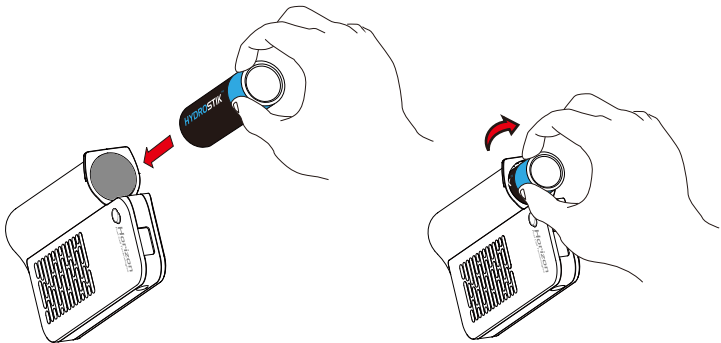
HYDROSTIK <sup>®</sup> cartridges	
Type	Solid state metal hydride
Hydrogen capacity	10L
Hydrogen purity	99.99%
H2 cartridge size	Ø22 x 85mm
H2 cartridge weight	3.2 oz / 90g

## **SAFETY & MAINTENANCE: Read carefully before proceeding**

- Fuel cartridge contents are flammable.
- Avoid contact with contents.
- Do not expose to temperature above 50 °C or open flames.
- Keep away from children.
- Follow usage instructions.
- Do not tamper, disassemble or puncture the MiniPak or HYDROSTIK.
- Keep MiniPak and HYDROSTIK away from fire, open flame, or heat source.
- The MiniPak shall be used in a well-ventilated area.
- Wait for LED indicator to flash blue before connecting external devices.
- Do not connect while red light is flashing.
- Remove HYDROSTIK immediately after use.
- Do not keep used or empty HYDROSTIK connected to MiniPak.
- Carefully store the MiniPak in the protective bag after use, store Hydrostik separately.

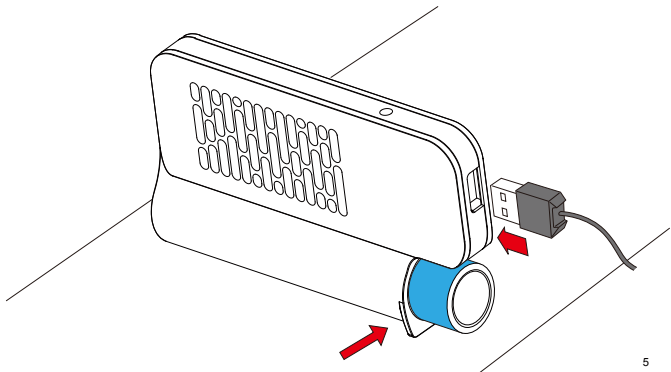
## ACTIVATING THE MINIPAK

Insert HYDROSTIK into the cartridge bay and turn clockwise until connection is tight.  
Once connected the LED status indicator light should start flashing red.  
Wait for LED to flash blue.



## USING THE MINIPAK TO CHARGE OR POWER YOUR DEVICES

- A. HYDROSTIK should be connected and a blue light should be flashing.  
(Do not connect if red light is still flashing)
- B. Connect your device to MiniPak with a USB cable.
- C. Place your MiniPak in an upright position.
- D. After use, remove HYDROSTIK from MiniPak. The indicator light will turn off in one minute.



## **NOTES:**

- To avoid permanent damage to your MiniPak, please make sure the HYDROSTIK is removed from the MiniPak system immediately after use. Failing to do so may permanently damage your MiniPak.
- Air vents located on either side of the MiniPak need easy access to ambient air.
- Do not cover MiniPak with anything when it is in use.
- Fuel cells combine hydrogen and oxygen to generate water, heat and electricity. It is normal to see condensed water droplets.

## **STORING YOUR MINIPAK AFTER USE**

- A. Make sure to store MiniPak in the protective bag provided and seal it tight for storage after use.
- B. Keep HYDROSTIK stored separately.

## **REFILLING EMPTY HYDROSTKS**

- A. HYDROFILL (sold separately) can be used to refill your HYDROSTIK. Check with your vendor for availability.
- B. Contact your vendor for local refilling solutions nearby.

# TROUBLESHOOTING

## • *INDICATOR LIGHT CONTINUES TO FLASH RED, DOES NOT FLASH BLUE*

**Solution 1:** Check whether MiniPak is placed upright and whether both sides of MiniPak has sufficient access to air.

**Solution 2:** Check whether purge outlet is covered.

**Solution 3:** Remove HYDROSTIK from MiniPak, wait for red light to come off, and insert HYDROSTIK again. If it does not work, the HYDROSTIK might be empty, replace it with a full one.

## • *INDICATOR LIGHT DOES NOT TURN ON AFTER HYDROSTIK IS CONNECTED*

**Solution 1:** Make sure HYDROSTIK is connected tightly to the MiniPak.

**Solution 2:** Use a full HYDROSTIK.

**Solution 3:** You may have left HYDROSTIK connected to the MiniPak without using the system for long time, which might have damaged the fuel cell.

## • *WATER DROPLETS START TO FORM UNDER THE MINIPAK*

**Solution:** Position the MiniPak upright during operation so both its air vents can access ambient air.

## • *MY DEVICE DOES NOT CHARGE WHILE THE BLUE INDICATOR LIGHT IS ON*

**Solution 1:** Check all the connections to make sure MiniPak is operating appropriately.

**Solution 2:** Some devices, like iPhone 4 or iPad, sometimes may show "Charging is not supported with this accessory", however, as long as the blue light is ON, MiniPak is still charging but at a slower speed.

**Solution 3:** Please also try disconnect and reconnect your device with MiniPak, the error message may go away after that and your device will be charged at normal speed.

## • *THE MINIPAK SURFACE IS WARM*

**Solution:** The fuel cell will heat up during operation, this is normal.