OS WILD
Trail Cameras

USER MANUAL

SOLAR PANEL

4500 mAh built-in battery



For compatible OS Wild trail cameras

RD20S

Revision 1.0

IMPORTANT

Read before use

- Fully charge the panel from a USB power source before first use. This helps the internal battery reach its best operating capacity.
- Install the camera's AA batteries as normal. The panel supplies supplementary power; the camera batteries provide backup when the panel is depleted.
- Use only with a trail camera that has a compatible external power input.
- Check that the panel's output rating matches the camera's input voltage before connecting the cable.
- Place the solar surface in direct sunlight and keep it free from shade, dirt and scratches.
- The panel will stop supplying power when its internal battery is empty. Recharge it by USB or sunlight.

VOLTAGE WARNING

Connecting the wrong voltage can damage the panel or camera and may create a fire risk. Confirm compatibility before every installation.

IMPORTANT

Safety and protection

- Mount the unit with both connection ports facing downwards.
- Push plugs fully into place and close every unused silicone cover.
- Keep the panel at least 30 degrees above horizontal so rainwater can drain away.
- IP54 protection applies only when the unit is installed correctly and all seals are closed. Do not immerse the panel.
- If water enters the unit, disconnect all equipment, open the covers and allow at least 24 hours of air drying before reuse.
- Do not run the panel continuously at its maximum rated output.
- Do not open, puncture, crush, burn or modify the panel or its built-in lithium-ion battery.
- The output may be unstable with a device drawing less than 0.1 mA. This panel is not intended for such low-current loads.

RESET AFTER A FAULT

Disconnect the camera and USB cable. Hold the status button for approximately 10 seconds, then recharge the panel before reconnecting it.

GETTING STARTED

Package contents

Check that all parts are present before installation. Cable appearance may vary slightly by product version.

1. 

   Solar panel

2. 

   User manual

3. 

   Micro USB charging cable

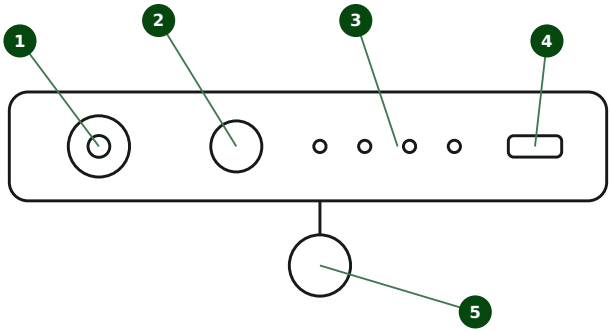
4. 

   DC output cable set

5. 

   Mounting bracket and fixings

Product overview



1. DC power output
   Connection to the trail camera.
2. Status button
   Press briefly to view the charge level.
3. Charge indicators
   Four LEDs show approximately 25%, 50%, 75% and 100%.
4. Micro USB input
   Use for charging from a 5 V USB supply.
5. Mounting socket
   Standard 1/4 inch threaded socket.

OPERATION

How the panel works

The solar cells charge the panel's internal lithium-ion battery whenever sufficient light is available. While connected, the trail camera draws supplementary power from this battery, extending the life of the camera's own batteries.

When the panel's charge becomes too low, a compatible camera switches to its internal batteries. Leave the correct AA batteries installed in the camera so it can continue working during poor light or overnight.

OUTPUT COMPATIBILITY

This product family is available in 6 V / 2 A and 12 V / 1 A versions. Use only the version that matches the camera's external power input. The DC connector is 5.6 mm outside diameter x 2.0 mm inside diameter, centre-positive.

For best results

- Fully charge the panel before installing it.
- Choose a location with long, unobstructed sun exposure.
- Keep the solar surface clean and free from shade.
- Check the panel's charge before periods of expected darkness.

OPERATION

Charge before installation

1. Prepare the panel
   Make sure the unit and connectors are dry. Disconnect the trail camera.
2. Connect USB power
   Connect the supplied Micro USB cable to the panel and a suitable 5 V / 1 A USB power source.
3. Watch the indicator
   The charging indicator glows red while charging and changes to green when charging is complete.
4. Finish safely
   Disconnect the USB cable and close the silicone cover before outdoor use.

CHARGING TIME

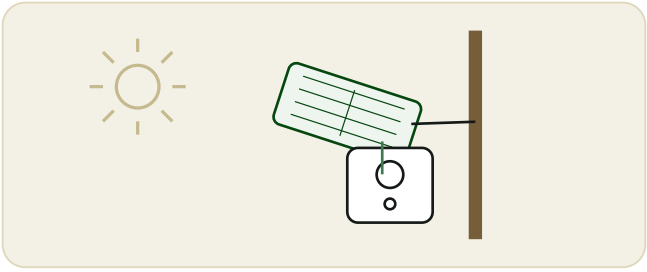
Allow up to 4 hours for a USB charge. Actual solar charging time varies with the strength and angle of the light; the approximate solar charging current is 200 mA.

Battery level



SET-UP

Installation and connection



1. Choose the position
   Select a stable point above the camera with long, unobstructed exposure to sunlight.
2. Fix the bracket
   Secure the bracket to the tree or support using suitable fixings and following local access rules.
3. Attach the panel
   Screw the swivel head into the 1/4 inch mounting socket on the rear of the panel.
4. Set the angle
   Aim the panel towards the sun, at least 30 degrees above horizontal, with both ports facing down.
5. Connect and seal
   Tighten the bracket, connect the output cable to the panel and camera, close all covers and secure loose cable.

REFERENCE

Specifications

Internal battery	3.7 V lithium-ion, 4500 mAh
DC output	6 V / 2 A or 12 V / 1 A product variant
DC connector	5.6 mm outside x 2.0 mm inside, centre-positive
Charge display	Four LEDs: 25%, 50%, 75%, 100%
USB input	Micro USB, 5 V / 1 A
USB charge current	Approximately 1 A
Solar cell size	120 x 65 mm
Solar charge current	Approximately 200 mA
Operating temperature	-20 to +80 degrees C
USB charging time	Up to 4 hours
Overall size	153 x 85 x 26 mm
Weight	178 g
Protection / approvals	IP54; CE, FCC and RoHS

Specifications are based on the supplied source manual and may vary slightly by product version.

REFERENCE

Troubleshooting

No response when the button is pressed

Likely cause: The internal battery is empty.
What to do: Charge the panel from a USB supply or place it in direct sunlight, then try again.

No power is supplied to the camera

Likely cause: The battery is low, the cable is loose, or the output rating is incompatible.
What to do: Confirm the voltage, reconnect both ends, charge the panel, then hold the button for approximately 10 seconds to reset if required.

Output voltage is not stable

Likely cause: The connected device may draw less than 0.1 mA.
What to do: Use the panel only with a compatible device whose power requirements meet the panel's operating range.

Solar charging is very slow

Likely cause: The panel is shaded, dirty or facing away from the sun.
What to do: Move it into direct sunlight, remove shade and wipe the surface with a soft cloth.

REFERENCE

Troubleshooting

USB charging is very slow

Likely cause: The charger, cable or power source is not providing sufficient output.
What to do: Use a known-good 5 V / 1 A source and check the charger output rating.

A red light is flashing

Likely cause: Overcurrent protection has stopped charging or output.
What to do: Disconnect the USB cable and connected device. Wait until the flashing stops, then try a suitable cable and source. Stop using the panel if the fault returns.

Water has entered the unit

Likely cause: A cover was open or a connection was not sealed.
What to do: Disconnect all equipment, open the silicone covers and allow at least 24 hours of air drying before reuse.

What happens in shade or at night?

Likely cause: Available light is too weak to keep the internal battery fully charged.
What to do: Give the panel unrestricted sun during the day. At night the panel uses its stored charge; the camera's batteries take over when that charge is low.

KEEP FOR LATER

Quick reference

Before connecting

- [ ] Match the panel voltage to the camera.
- [ ] Charge the panel fully.
- [ ] Install the camera's AA backup batteries.
- [ ] Face the solar surface towards direct sun.
- [ ] Keep both ports down and close every seal.

Care

- Wipe the solar surface with a clean, soft cloth.
- Do not use abrasive cleaners or sharp tools.
- Store the panel dry, with the silicone covers closed.

Keep this manual for future reference

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