



SK-LZR

Instruction Manual

Rev. 1.00 – Sept 8, 2015

Box Contents

The SK-LZR includes:

- The SK-LZR unit
- Interface cable
- Mounting tape

Figure 1 - The SK-LZR Module, and mounting tape



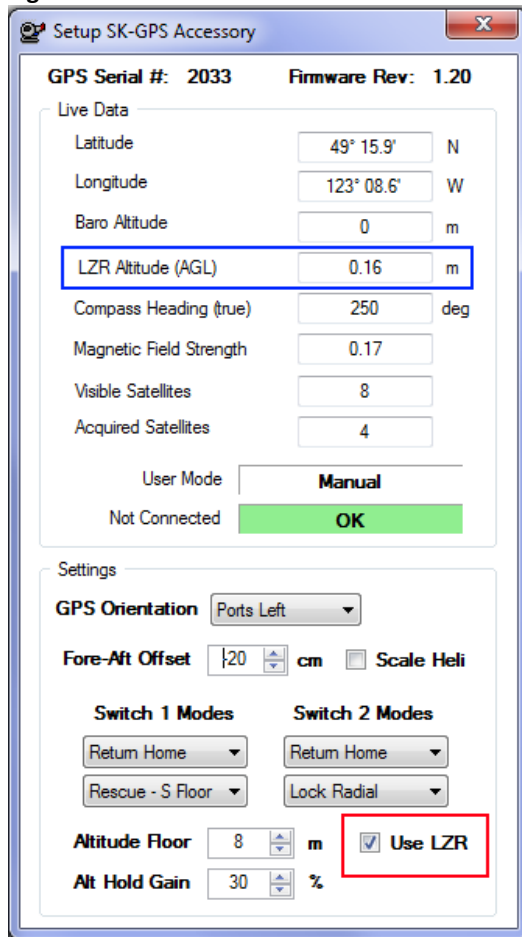
Specifications

- Requires an SK-720, and an SK-GPS (version 1 or 2)
- Infra-red laser (invisible)
- Weight is 25 grams with cable
- 20x48x40mm
- 4.75 - 6 volts supply
- < 100ma current draw

Getting Started

- 1) Ensure your SK-720 is updated to rev 4.08 or later firmware. Please note that at the present time, the SK-LZR requires an SK-GPS to be connected to the SK-720 in order to work.
- 2) In the setup software, look on the GPS setup form. Check the option “Use LZR”, then reboot the SK-720 by unplugging and then reconnecting the USB cable. In figure 2 below, the LZE option is outlined in red.

Figure 2 – Tell the SK-720 to use the SK-LZR

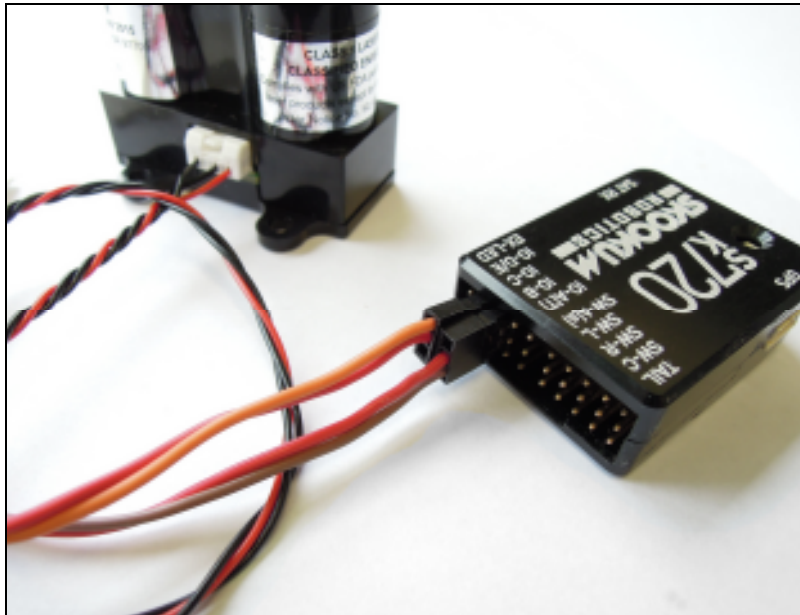


3) Connect the SK-LZR to your SK-720. The LZR has two cables, one for power, and one for signal. The power cable has a brown wire, and a red wire. You can connect that to any spare port on the SK-720, except for the IO-D/E or EX-LED ports. The brown wire goes on the bottom.

NOTE: The SK-LZR can take a maximum of 6.0 volts! More than that may destroy it.

The signal connector has a red and orange wire. Connect it to the IO-D/E port, with the orange wire on the top.

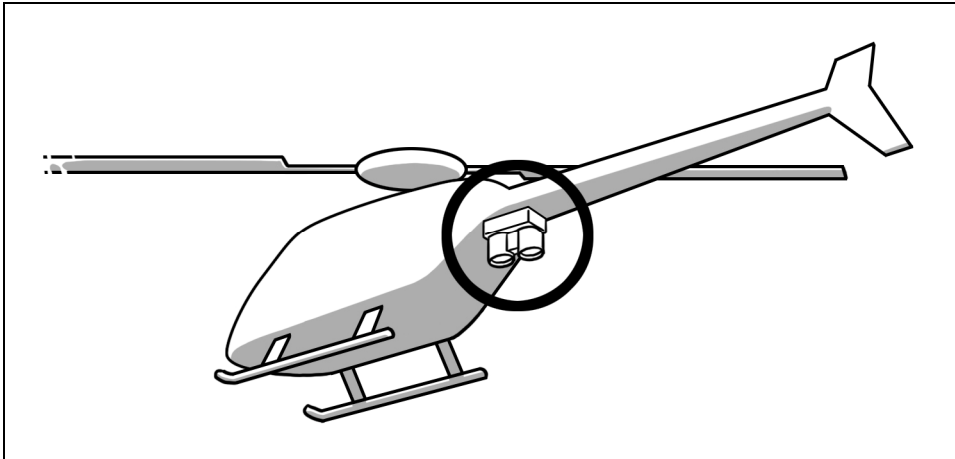
Figure 3 – Connecting the SK-LZR to the SK-720



4) You can now test the SK-LZR, by looking at the readout on the GPS setup form in the setup software. In figure 2 above, the readout is outlined in blue. Please note, the SK-LZR will need power in order to work, it is not powered by the USB. It also won't provide an altitude unless it has linked to the radio transmitter.

5) Mount the SK-LZR on your helicopter, using the provided double-sided tape. Make sure the LZR is pointed straight down, without anything in its way. It can't sense anything closer than 10cm (4 inches), so try to have its face at least that far above the ground.

Figure 4 – Mounting the SK-LZR



Flying with the SK-LZR

The SK-LZR will automatically be used instead of the SK-GPS's own altitude sense, as long as the heli is within 20m (65 feet) of the ground, and is within 30 degrees of level.

The SK-LZR is accurate to roughly 2cm (1 inch). This is much better than the SK-GPS's own barometric altitude, which is only accurate to about 10cm (4 inches) and subject to drift with changing weather conditions, and the effects of rotor disk wash.

Warranty and Technical Support

Warranty and Repair:

Skookum Robotics Ltd warrants this product against any defects in materials or workmanship for a period of 90 days from the purchase date. This warranty is limited to the original purchaser. In the event of a malfunction, Skookum Robotics will repair or replace the product to meet its standard operating condition. This warranty does not apply in cases where the product has been overheated, electrically shorted, subject to crash damage, otherwise abused, or had unauthorized repair attempts.

UNDER NO CIRCUMSTANCES DOES SKOOKUM ROBOTICS ACCEPT LIABILITY FOR INCIDENTAL DAMAGE OR INJURIES RESULTING FROM THE OPERATION OF THE SK-GPS2 OR OTHER PRODUCTS.

Skookum Robotics will provide customers with technical assistance by email free of charge. If a product's serviceability is in question following a crash, we will check it over for only the cost of postage. If the unit has malfunctioned and the 90-day warranty period has expired, we will attempt repair, and discuss the cost of possible repairs with the owner, again for only the cost of postage.

If you wish to return the GPS unit or related product, please write "WARRANTY RETURN" clearly on the shipping box, and mail it to the address given below.

Manufactured in Canada by Skookum Robotics, Ltd

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