

RH-1 USERS MANUAL

Please read these Terms and Conditions carefully.

This product is designed to be used by a professional. The user should have a good knowledge of the safe of the product and implement the types of safety procedures recommended by the local government protection agency for both private use and commercial job sites.



Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.

Turn off the power supply near a highly accurate electronic equipment.

RH-1

• Outline of product

RH-1 is GPS receiver in GRS-1 to measure the GPS data in real time.

RH-1 supplies the electric power to GRS-1 by two battery and outside AC power, and enables the operation of GRS-1 of long time.

• Physical

Dimensions : 8.50" x 5.83" x 6.71" (216 x 148 x 170.5 mm) no Antenna
: 15.47" x 5.83" x 6.71" (393 x 148 x 170.5 mm) with Antenna

Weight : 1.4Kg

Input / output : Bluetooth,Serial, Power, Antenna,Communication pins(for GRS-1)

Battery Type : Li-ion battery, Rechargeable / Replaceable

Input voltage : 12 to 20V

Operating temperature : -20 C° to +50 C°

Strage temperatuere : -30 C° to +60 C°

Waterproof : IPX4

• Use

1. GRS-1 is installed in the holder.
2. Pushing the switch long , that RH-1 LEDs is lit.
3. Pushing the switch short , that RH-1 LED4 is matched to the machine used.
4. The power of GRS-1 is turned on.

The user doesn't operate GPS from RH-1,because The user does all the operations concerning GPS from GRS-1.

The electric power is supplied to GRS-1 without operating it under such a condition.

• **LED**

LED 1: Battery 1 (Red and Green)

Green: Using / Battery Full

Red Blink: Using / Battery Empty

LED 2: Battery 2 (Red and Green)

Green: Using / Battery Full

Red Blink: Using / Battery Empty

LED 3: Radio Modem Status (Green and Orange), Same as GR-3 Radio status LED.

Non: Turn Off

Red: Data Transmitting

Green: Data Receiving

LED 4: Serial port Connection mode and Radio power(Red, Green and Orange)

Green: Radio board is connected to Bluetooth

External port is connected to GRS-1

Red: Radio board is connected to GRS-1

Orange: Radio board is connected to External connector

Non: Radio board is OFF

Connected between GRS-1 and External connector

• **Radio**

Each model built-in the following radio.

The specification is same as GR-3's radio portion.

UHF 410-470MHz

SA915

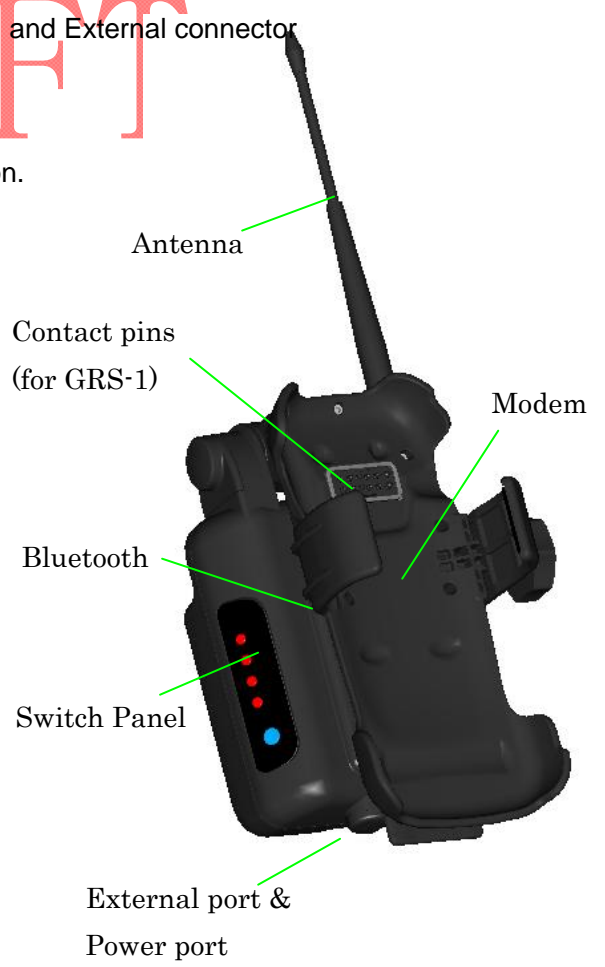
Satel

UHF for Japan

• **RH-1 standard package includes**

- Radio Holder unit
- Two Li-ion Battely
- Radio antenna
- Power adptor AD-11 (AC-DC Adptor)
- AC Cable (for AD-11)
- Serial Cable (DB9)
- Manual CD

DRAFT



FCC Regulatory Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution:

Any changes or modifications not expressly approved by the party responsible for product compliance could void the user's authority to operate the equipment.

Caution Exposure to radio frequency radiation

To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

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Industry Canada Canada Regulatory Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Customers in Canada

This device complies with RSS 210 of Industry Canada (IC).

Operation is subject to the following two conditions:

- this device may not cause interference, and

- this device must accept any interference, including interference that may cause undesired operation of this device.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes:

- il ne doit pas produire de brouillage et

- l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Exposure to radio frequency radiation

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website at www.hc-sc.gc.ca/rpb.