BB900

USER GUIDE

Backup Power Device for CRX and CRXS

- Thank you for purchasing the BB900.

- Please ensure that you read and understand this USER GUIDE and use it before connecting and installing this device.

- Please store the USER GUIDE in an easily accessible location.

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SAFETY ADVICE

	CAUTION	
⚡	RISK OF ELECTRIC SHOCK DO NOT OPEN	❗

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

Please make sure you follow the safety advice/instructions given in the user guide.

⚠ Caution
**RISK OF EXPLOSION IF SUPER CAPACITOR IS REPLACED
BY AN INCORRECT TYPE.**

⚠ Caution
**Install the product where it does not block driver's visibility
and where there is no airbag installed. This could cause an
accident or might injure passengers incase of accident**

**WARNING:
TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**
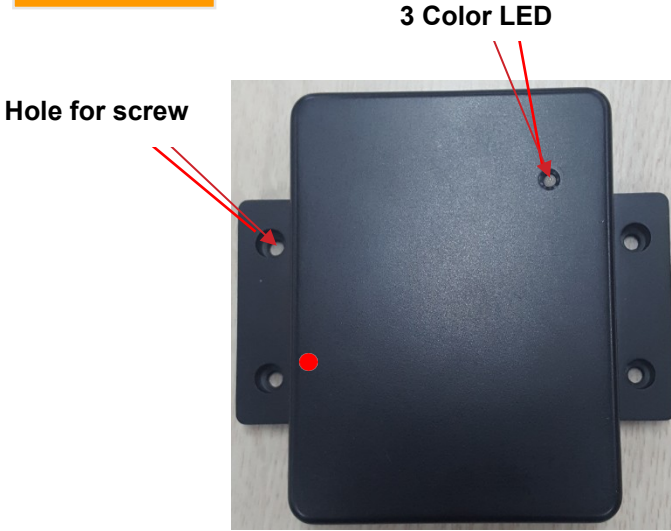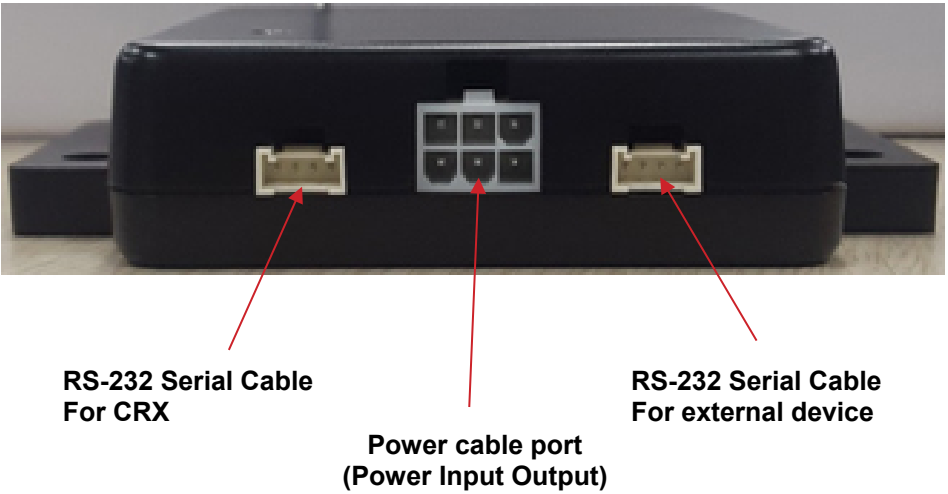
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BB900 Backup Power Device
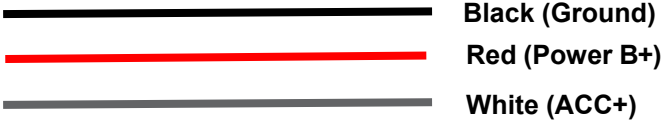

Serial

Power Cable

Sticker for

INTRODUCTION

Up side

3 Color LED

Hole for screw

Rear side

**RS-232 Serial Cable
For CRX**

**RS-232 Serial Cable
For external device**

**Power cable port
(Power Input Output)**

INTRODUCTION

Power Cable

Connect 3 cables to vehicle

Black (Ground)
Red (Power B+)
White (ACC+)

Black (Ground)
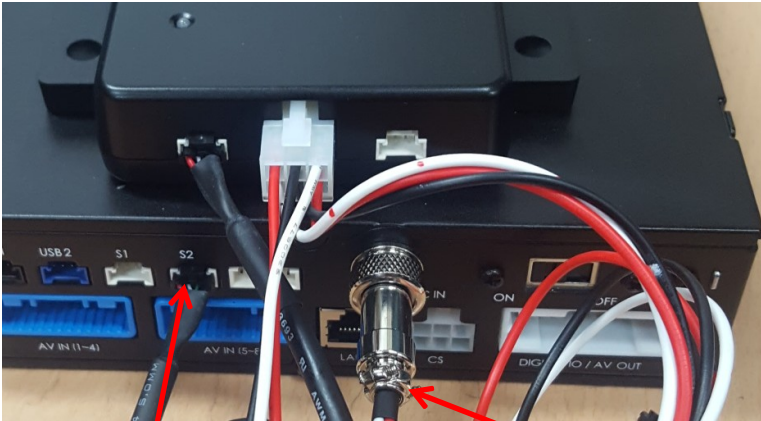Red (Power B+)
White (ACC+)

Connect this connector to CRX3008

INSTALLATION

Park your vehicle on a flat level surface.

Turn off the engine before installing the CRX-BB900.

1. Use the included power cable bundle for the power connection, the battery cable connects to the battery power (BAT+) and the ACC cable connects to the ignition (IGN+). The black wire connects to ground (BAT-).

2. Connect DC OUT cable to DC IN port at CRX3008.

3. Connect the included serial cable to the DVR port and the S2 port at CRX3008

**S2 port
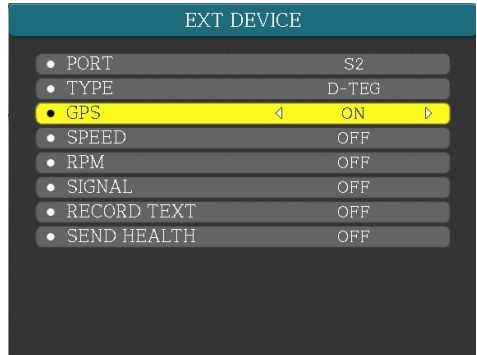at CRS3008**

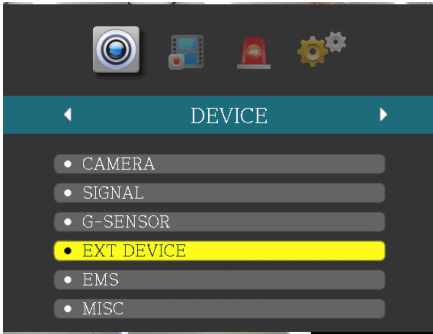**DC IN port
at CRS3008**

Attach the CRX-BB900 using the provided double sided 3M tape. The surface must be clean and dry before you install. We recommended to install the product behind the rear view mirror on the front windshield.

NOTE: The 3M adhesive tape will not stick well with dust or oil, etc. Please make sure the surface is clean before applying.

Start the vehicle after installation.

CRX SETTINGS

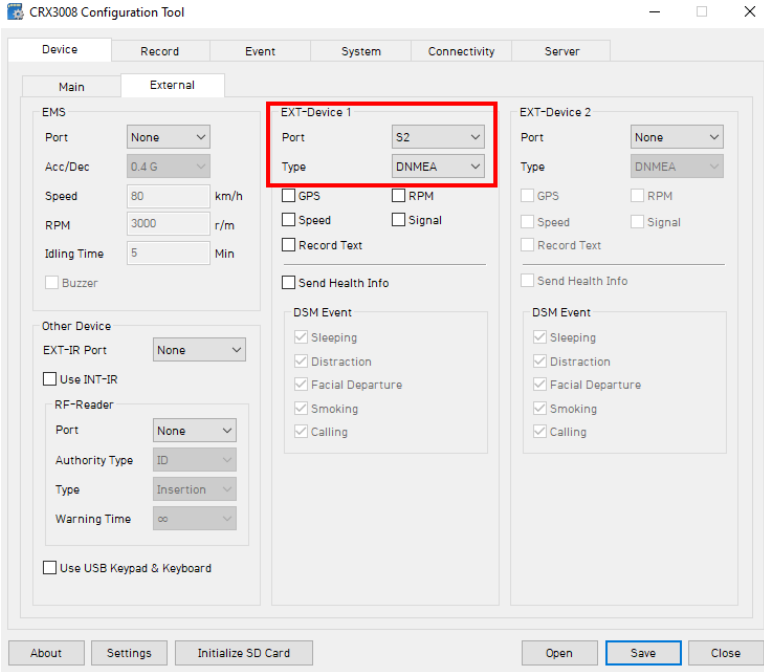**Select MENU => DEVICE => EXT DEVICE**

Set the PORT as S2

Set the TYPE as "DNMEA"

NOTE: TYPE refers to a protocol type between a device and
CRX. Set is as "DNMEA" to use the CRX-BB900

CRX SETTINGS (Using SD Card)

You can also apply the settings using the CRX Configuration Tool software. And an SD card to save and transfer the settings to your CRX

- Using the Configuration Tool, set up the configurations as needed and then save the settings to an SD card (or USB memory stick). Refer to Chapter 10 in the CRX User Guide for more details.
- Insert the SD card (or USB memory stick) into the main unit and press both [FN] and [∧] together.
- While uploading, you will see a progress bar and hear a sequence of three beeps until complete.
- When uploading is complete, you will hear two short beeps and the progress bar will close automatically.

- Download the CRXS (model #:CRX3108) configuration tool here
- Download the CRX (model #: CRX3008) configuration tool here

LIVE SCREEN

Once it connected properly, the battery ICON will be on the Live screen.

[Charging icon]	Charged less than 20%	[Battery icon]	20% left
[Charging icon]	Charged 20%	[Battery icon]	40% left
[Charging icon]	Charged 40%	[Battery icon]	60% left
[Charging icon]	Charged 60%	[Battery icon]	80% left
[Charging icon]	Charged 80%	[Battery icon]	100% left
[Charging icon]	Fully Charged		

LED SPECIFICATION

GREEN LED
The green LED shows when it fully charged.

RED LED
The red LED will be turned on when charging.

ORANGE LED
The orange LED will be turned on when discharging.

Status	LED
Booting	RED LED ON
Charging	RED LED ON
Fully Charged	GREEN LED ON
Discharging	ORANGE LED ON
Power off	OFF

CRX Power LED

The Green LED (Power LED) of CRX will be blinking when the CRX is using the power from the BB900.

FUNCTIONS

File Closing before shutdown

To avoid the file system broken, CRX must properly shut down after closing the current recording file.

Backup Power Device ensures this file is closed prior to shutdown or any abrupt power disconnections.

Record more data after power cut

The BB900 can provide up to 30 seconds of power after power loss, this is enough time to close the file and shutdown properly, but also in some case to transmit events which may have occurred (such as vehicle crash which disconnects vehicle power). When CRX is connected to a network, it can quickly transmit the event notice and image snapshots in this time (depending on image qty, size, and cellular signal strength/bandwidth)

Power consumption (and BB900 power time) is related with the number of cameras connected and other devices such as LCD monitor, Cellular modem, etc.

SPECIFICATION

Input Voltage	12V/24V, 5A
Output Voltage	During charging: Input power by-pass, 4A During discharging: 13.5V 4A
Initial Voltage (To turn on the unit)	13V
MAX current	4A
Normal current	2A
Recharging time	1A x 150 seconds
Total stored energy	900W
Available energy	773W
Operation Temp.	-20C ~ 60C
Dimension	85x135x25mm

TECHNICAL SUPPORT & WARRANTY

TECHNICAL SUPPORT

For Technical Support, please visit support.smartwitness.com.

LIMITED WARRANTY

This product is supplied with 1 year warranty. The Warranty excludes products that have been misused, (including accidental damage) and damage caused by normal wear and tear. In the unlikely event that you encounter a problem with this product, it should be returned to the place of purchase.

Sensata **IN**