

BougeRV HC24 Series PWM 24V Solar Charge Controller User Manual

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BougeRV HC24 Series PWM 24V Solar Charge Controller



Unpack



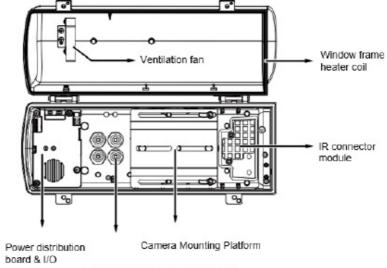
Note 1: Subject to modification. Actual products and accessories may differ in appearance.

Installation Notices

CAUTION:

INSTALLATION SHALL BE PERFORMED BY QUALIFIED PERSONNEL ONLY. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL PROCEDURES. IT'S NOT RECOMMENDED TO USE WIPER WITHOUT A WASHER TANK. IT WILL CAUSE AN UNREPAIRABLE SCRATCH ON THE GLASS. PLEASE APPLY APPROPRIATE PROTECTION TO THE EYES WHEN INSTALLING IR MODULE ON THE HOUSING.

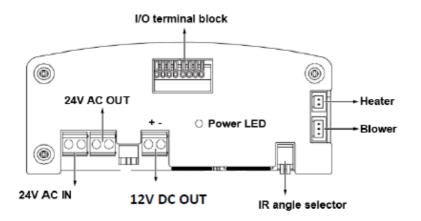
Connectors



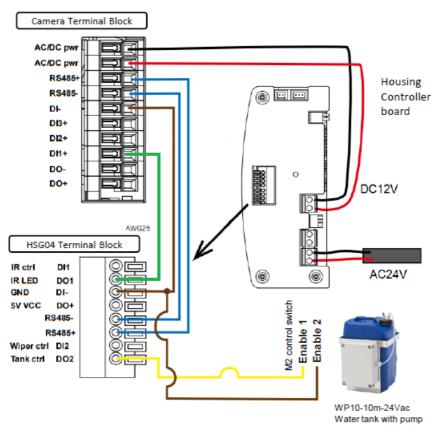
M16 1/2" Waterproof cable glands

I/O Terminal Block Connection

I/O	Description		
DO2	Connect to tank water pump.		
DI2	Wiper control, connects to IP camera's DO for manually triggering washer.		
RS485+			
RS485-	Serial port to control IR, wiper and washer.		
DO+	+5V VCC		
DI-	GND		
DO1	IR LED status, connect with camera input to control IR cut filter(default)		
DI1	IR control by camera		



Connection diagram



RS485 Control

protocol	Baud rate	data bits	parity	stop bit
Pelco-D	2400	8	None	1

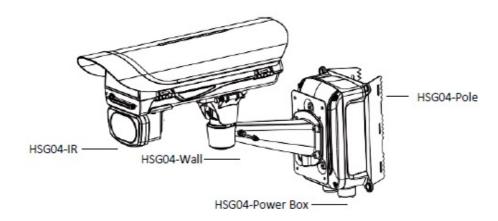
Pelco-D command

Control	Pelco-D Command
Wiper On	Aux 1 On
Wiper Off	Aux 1 Off
Wiper and Washer On	Aux 2 On
Wiper and Washer Off	Aux 2 Off
IR Led Force On	Aux 3 On
IR Led Force Off	Aux 3 Off
HSG04-IR Wide	Zoom Wide
HSG04-IR Tele	Zoom Tele
HSG04-IR Stop	Zoom Stop

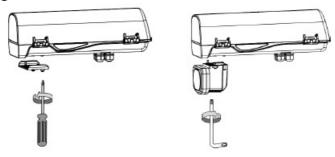
Note 2: Once RS485 controls the IR Led, the IR mode will be in RS485 control. Please switch to "Light Sensor

mode" by "FF 01 00 18 02 02 1D" Pelco-D command. The Light sensor at lamp will control the lamp by the lighting condition.

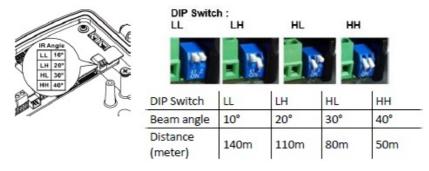
Complete HSG04 housing with accessories



Complete HSG04 housing with accessories



- 1. Remove the metal cover from underneath the housing.
- 2. 2. Install the HSG04-IR module and ensure the rubber gasket is in place.
- 3. Adjust the IR distance by DIP switch.

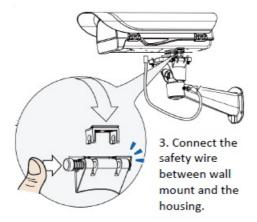


Optional Accessory – HSG04-Wall Mount

1. Fasten 2 screws to secure the intersection bracket at the bottom of the housing.



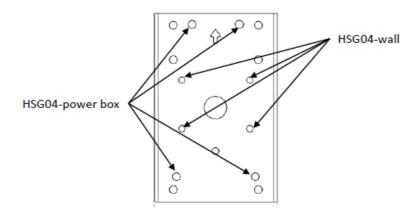
2. Install the housing by pressing the spring mortise and hooking the bracket onto the groove in the spring mortise. Fasten the screws on the side.



- 3. Connect the safety wire between wall mount and the housing.
- 4. Fasten the wall mount to the mounting holes as indicated above.

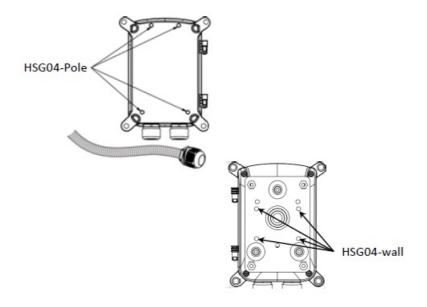
Optional Accessory – HSG04-Pole Mount

HSG04-pole mount can be used with HSG04-wall as well as HSG04-power box. The different mounting holes are indicated below.



Optional Accessory – HSG04-Power Box

HSG04-Power box can be installed with HSG04-Wall as well as HSG04-Pole. The different mounting holes are indicated below.



Optional Accessory –Water Tank, WP10-10m-24Vac

Install the washer nozzle with a bracket to the side of the HSG04. Connect a piece of Ø8mm hose to the nozzle and use an Ø8-4 hose adapter as the bridge to the hose included in WP10-10m-24Vac. Secure each connections with a cable tie.



Documents / Resources



BougeRV HC24 Series PWM 24V Solar Charge Controller [pdf] User Manual HC24 Series, PWM 24V Solar Charge Controller, HC24 Series PWM 24V Solar Charge Controller, Charge Controller, Controller

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