



Ordering code:

CKNPID1

AV control module is part of Your Cockpit system.

AV Control is an IR transmitter based on Z-Wave technology. It is used for sending IR codes to infrared communication controlling devices such as TV, DVD and TV box.

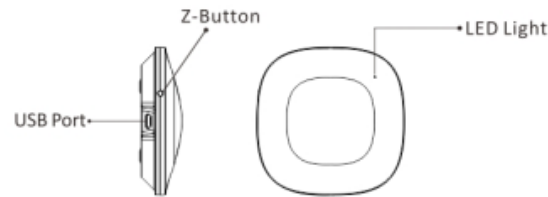
All non-battery-operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

AV Control is also a security Z-Wave device and supports the Over The Air (OTA) feature for the product's firmware upgrade. If you want your AV Control to be a security device that use secure/ encrypted message to communicate in a Z-Wave network, then a security enabled Z-Wave controller is needed.

The features list:

1. Z-Wave Plus certified for wide compatibility (500 serials product).
2. Infrared max communication distance is about 12meters.
3. Infrared emission angle is about 180°.
4. Support firmware OTA.

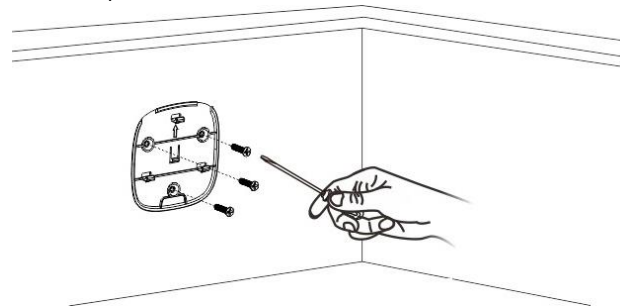
### 1. PRODUCT LAYOUT



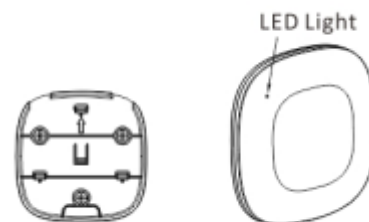
### 2. INSTALLATION

AV Control is simple to install and it should be installed near the infrared devices as possible as you can.

1. Utilize the screws provided to affix the plastic mount to the surface you desired.



2. After step 1, you can now lock your AV Control to the plastic mount by pressing it as the direction shows below.



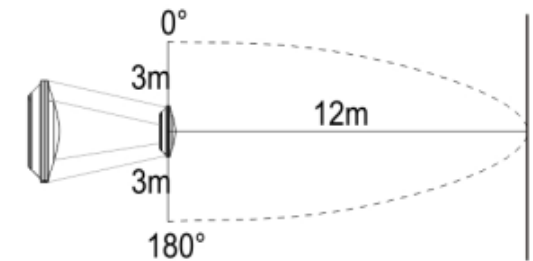
3. Firmly connect the 5V/1A Micro USB adaptor to your AV Control and then put the adaptor plug into an AC outlet. AV Control will power on as soon as you plug in the adapter.



### 3. INFRARED INFORMATION

Infrared emission angle has great effect on the communication distance. The communication distance is up to 12 meters when the angle between infrared device and AV Control is 90° (this is the optimal performance). The communication distance is 3 meters when the angle between infrared device and AV Control is 0° or 180°.

1. The figure below shows the relation of Infrared emission angle and Infrared communication distance.



2. How to store infrared code on your AV Control. You can learn infrared code from your remote. In the Cockpit App put the AC control in learning mode, press the button you want to configure and then press button on your remote control.
3. How to control an infrared device. After you store infrared codes on your AV Control, you can control an infrared device via Cockpit App.

### 4. Z-WAVE NETWORK INCLUSION

To include AV Control into a Z-Wave network as a non-security device:

- 1) Make sure the power supply is connected and the AV Control is located within a direct Z-Wave network's main controller communication range.

- 2) Set the Z-Wave network main controller into learning mode (see Z-Wave network controller operating manual).
- 3) Triple-clicking the Z-Button within 1.5 seconds.
- 4) If the inclusion is successful, the LED will blink fast for less than 5 seconds and then keep on. Otherwise, the LED will blink 5 seconds and then keep blinking slowly, in which case you need to repeat the process from step 2.

To include AV Control into a Z-Wave network as a security device:

- 1) Make sure the power supply is connected and the AV Control is located within a direct Z-Wave network's main controller communication range.
- 2) Set the Z-Wave network main controller into learning mode (see Z-Wave network controller operating manual).
- 3) Pressing and holding the Z-Button for 3 seconds.
- 4) If the inclusion is successful, the LED will blink for less than 5 seconds and then keep on. Otherwise, the LED will blink 5 seconds and then keep blinking slowly, in which case you need to repeat the process from step 2.

**TIP:**

If you want your AV Control to be a security device that use secure/encrypted message to communicate in a Z-Wave network, then a security enabled Z-Wave controller is needed.

**5. REMOVING FROM Z-WAVE NETWORK**

To remove the AV Control from the Z-Wave network:

- 1) Make sure the power supply is connected and the AV Control is located within a direct Z-Wave network's main controller communication range.
- 2) Set the Z-Wave network main controller into exclusion mode.
- 3) Triple-clicking the Z-Button within 1.5 seconds.
- 4) If the remove for exclusion is successful, LED will blink fast for less than 5 seconds and keep blinking slowly. Otherwise, LED will blink for 5 seconds and then keep on, in which case you need to repeat the process from step 2.

**NOTE:**

Remove procedure will clear the AV Control's memory which means it will erase all information about Z-Wave network and advanced configuration.

**6. RESET IR TRANSCIEVER**

Reset procedure will clear the AV Control 's memory, including Z-

Wave network information, but not including IR information.

To reset AV Control:

Pressing and holding the Z-button for 20 seconds. Release the button after 20 seconds, LED will be on for 3 seconds, and then LED will keep blinking. AV Control will send "Device\_Reset\_Locally" to the main controller and exclude from the Z-Wave network. This procedure will reset AV Control to factory default.

**NOTE:**

Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

**7. ASSOCIATION**

AV Control supports only one association group:

Grouping Identifier	Max Nodes	Send Commands
Group 1	0x05	NULL

**8. ADVANCED CONFIGURATION**

AV Control offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controller's configuration interface (Cockpit App).

**Parameter No.93 Clear IR information**

Clear all IR information.

Value: 1431655765

Default: 1

Parameter size: 4[byte]

**Parameter No.254 Enable/disable the configuration command**

Lock/unlock all configuration parameters.

0 — Unlock.

1 — Lock.

Default setting: 0

Parameter size: 1[byte]

**Parameter No.255 Reset Scene Controller**

Reset to factory default settings and removed from the Z-Wave network.

Value: 1431655765

Default: 1

Parameter size: 4[byte]

**9. TECHNICAL SPECIFICATIONS**

<b>Power supply:</b>	USB Power DC 5V 1A
<b>IR Coverage</b>	IR Coverage: 360 degree, 7~10 m
<b>Z-wave operation range:</b>	About 40m indoors (depending on building materials)
<b>Temperature</b>	Operation: 0 - 40°C Storage: -10 - 50°C; 0-90% RH
<b>Dimension</b>	85x85x26cm
<b>Working current:</b>	About 60mA
<b>Standby current:</b>	About 35uA



**IMPORTANT DISCLAIMER!**

Z-Wave wireless communication is not always 100% reliable. This device should not be used in situations in which life and/or valuables are solely dependent on its functioning.

**WARNING!**

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal free of charge.

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