

Features of Pro -mobile app







2 Way Communication: It allows users to read real-time device status from App.

Compared to V1 system

- a. No more problems that some lights fail to put in a group or pair with other ZigBee devices.
- b. No more problems that status of the light from App is inconsistent with actual condition.
- c. ZigBee devices for each gateway are limited to 100pcs, so as to insure real-time function.



Area & Scenario: There are area control and Scenario control.

Each account can set up:

- Max 30 scenarios. Each scenario includes max 20 devices/ groups.
- Max 20 areas. Each area includes max 100 devices + 30 groups.
- Scenario control have schedule function and sensor on off function.



Schedule

Compared to system, there are more functions:

- It includes START and END time setting. Users can set different device status.
- Each account supports 20 schedules. Each schedule supports 20 devices/ groups.
- Each schedule has sensor on off function and parameter setting.
- 3 schedule types, Repeat Weekly/ No Repeat/ Execute successively. Execute Successively means when the 1st schedule is completed, it goes to the 2nd schedule automatically. This is for plant and animal growing particularly.



User Account Management: 1 administration account + 10 sub accounts.

- a. Each account has max 100 devices + 30 groups.
- b. Each account owns independent scenario/ area/ schedule status.



Power Metering & Failure Alert

- a. Some products with –PM in model number are with power metering function.
- b. There are 2 kinds of failure alert:
 - Offline: controller or driver is de-energized or damaged. It refers to non power metering devices.
 - Abnormal Power: incorrect energy consumption data. It refers to ‘-PM’ products only.
- c. Power metering generates report for all devices/ individual device yearly.



Standard ZHA1.2 Protocol

- a. Dimming controllers/ drivers are with standard ZHA1.2 protocol. They are compatible with other ZHA gateways.
- b. AHGW735 gateway works with other ZHA devices. Testing is required.



AES Encrypted Communication

The whole communication process is AES128 encrypted, between:

- Mobile phone App and server
- Mobile phone App and gateway
- Gateway and server
- Gateway and ZigBee devices



Wall Switch/ Remote Control: There are wall switches and remote controls available, to control our ZigBee devices.

- a. Dimming/ cct touch switch
- b. 6-scenario touch switch
- c. 4 channel dimming/cct remote control



Multiple Gateways in One Network

- a. Press gateway button to be recognized by App.
- b. Choose a gateway before adding devices.
- c. Choose a gateway before adding groups.
- d. Choose a gateway before binding.
- e. Each gateway is with a different PANID, say, ZigBee network. ZigBee devices from different gateways cannot communicate.



Software OTA Update: Over-the-air update.

- a. All ZigBee devices except touch switch supports OTA update function.
- b. There will be 2 kinds of software OTA updates.
 - Significant bug update – upgrade automatically.
 - Functional bug update – decide by user after receiving update notification.
- c. It takes 13 minutes for each ZigBee device to finish the software update.



Web Server for Big Projects

- a. Both Linux and Windows server apps are available.
- b. The server backup all data, including device, Scenario, area, schedule, account, failure report and layout insert.
- c. Customers can read all necessary data info from the server by a web browser on phone, tablet or computer.



Bluetooth Mesh Interface for Future Use

The system provides a Bluetooth Mesh interface further to Bluetooth Mesh device in future.

Highbay

(common highbay, UFO, highbay tube)



Commercial Lighting Application



Application Market

School Lighting Application



LED Grow Light



Residential Lighting Application



Product List

Device Type	Model No.	Device Name
Gateway	HGW735	30M ZigBee-Ethernet gateway
	HGW735-A	100M ZigBee-Ethernet gateway
ZigBee Controller	AHLC610-Z	IP20 3A 1-10V dimming controller
	AHLC734-Z	IP65 3A 1-10V dimming controller with power metering (round)
	AHLC833-Z-BEA	100M IP65 10A 1-10V dimming controller with power metering
	AHLC833-Z-1C	IP65 10A 1-10V dimming controller with power metering
	AHLC833-Z-PM	IP65 power metering controller (no relay)
	AHLC606-Z	IP20 12VDC 0-10V dimming controller
	AHLC909-Z	IP20 1/ 2/ 3 channel 0-10V dimming controller
	AHLC614-Z	IP20 9A 3-channel on/off controller
	AHLC721-Z	IP20 1.5A trailing edge triac dimming controller
	AHLC502-Z	IP20 DC 12V/ 24V/ 48V dimming/ CCT/ RGB/ RGBW/ RGBCW controller
	AHLC718-Z	IP20 electric up/ down curtain controller
ZigBee Driver	AHLD503-Z	24-42V 40W dimming/ CCT driver
	AHLD719-Z	25W dimming/ CCT driver
	AHLD812-Z	13W dimming/ CCT driver
	AHLD728-Z	15W RGB/ RGBW/ RGBCW driver

Product List

Device Type	Model No.	Device Name
ZigBee Driver	AHLD816-Z	80W dimming/ CCT linear driver with power metering
	AHLD817-Z	40W dimming/ CCT linear driver with power metering
	AHLD827-Z	150W dimming driver with power metering (rectangle)
	AHLD828-Z	150W dimming driver unit with power metering (round)
ZigBee Switch	AHTP501-Z	Dimmer/ Scenario/ curtain switch (EU version)
	AHTP601-Z	Dimmer/ Scenario/ curtain switch (US version)
	AHRC811-Z	4-channel dimming/ CCT remote control
ZigBee Sensor	AHMS826-Z	Standalone IP65 dimming daylight sensor
	AHCS901-Z	Standalone IP65 CCT daylight sensor
	AHPS902-Z	PIR motion sensor
	AHMS823-Z	IP65 3-15M microwave motion sensor
	AHMS810	IP65 wired 3-15M microwave motion sensor
	AHMS808	IP20 wired 1.6-8M microwave motion sensor
ZigBee Circuit Breaker	AHCB818-Z	16A circuit breaker with power metering
ZigBee Bridge	AHGB806	ZigBee 1-10V/ RS232/ Dali/ Dry contract/ L/N detect bridge
	AHGB813	ZigBee bridge with audio input