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# Magic Wand

## Gateway HGW928-VB

Up to support 100 Magic Wand luminaires



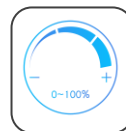
ZigBee Mesh  
Network Control



Zoning & Grouping



Magic Wand  
Remote Control



Dimming Control



ON/OFF

CE RoHS



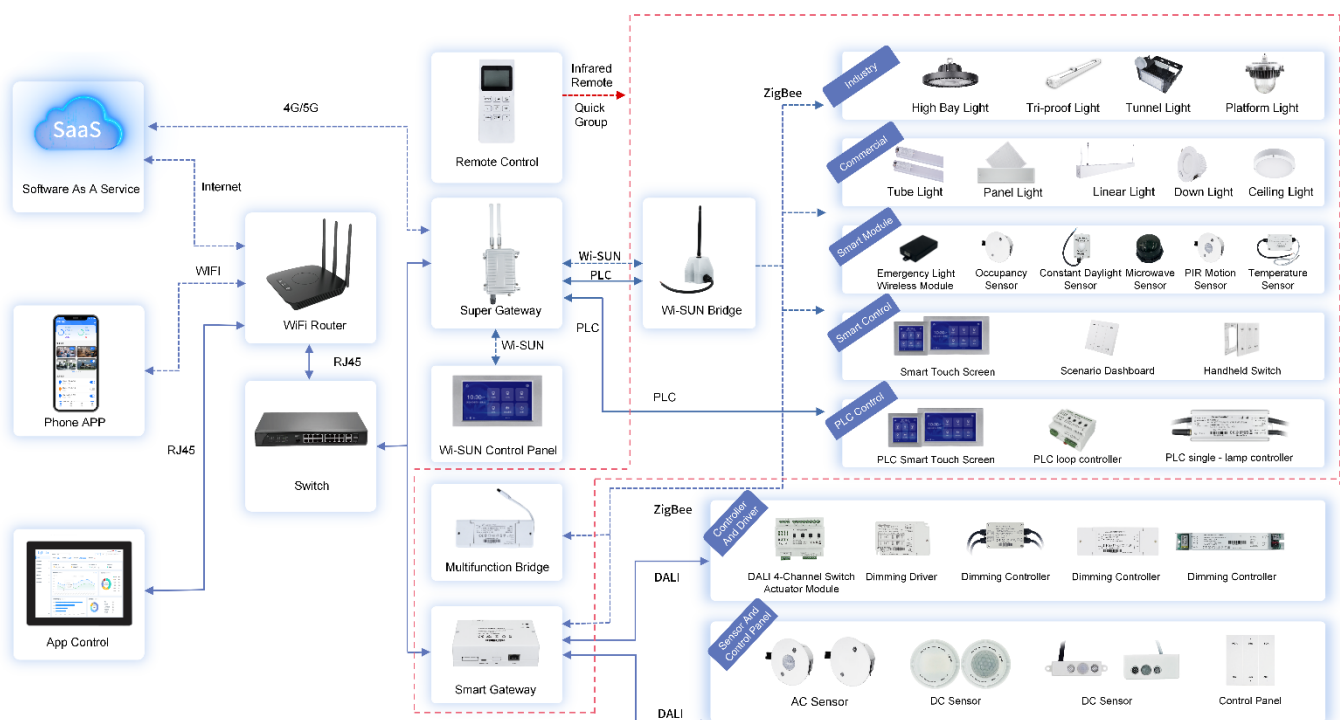
## Applications

- Shopping
- Office
- Manufacture
- Mall/Warehouse
- Exhibition Hall
- Station

## Features

- Embedded 100M Ethernet Controller.
- ZigBee mesh network smart controls.
- Input voltage 5V, micro USB adapter.
- 1 Administrator account.
- Supports 50 Grp group
- 120 scenarios are supported.
- 16 devices or groups per scenario.
- Supports 180 timing slices.
- Each time slice supports 10 devices or groups.
- Support POE power supply (special POE version).
- Support OTA upgrade.
- Up to support 100 Magic Wand luminaires

## System Diagram





## Product Data

### General Information

|                      |                  |
|----------------------|------------------|
| Protection class IEC | IP20             |
| Warranty             | 5 Years Warranty |
| Certificate          | CE, RoHS         |

### Application Conditions

|                       |                   |
|-----------------------|-------------------|
| Operating Temperature | -20 °C to ~ 55 °C |
|-----------------------|-------------------|

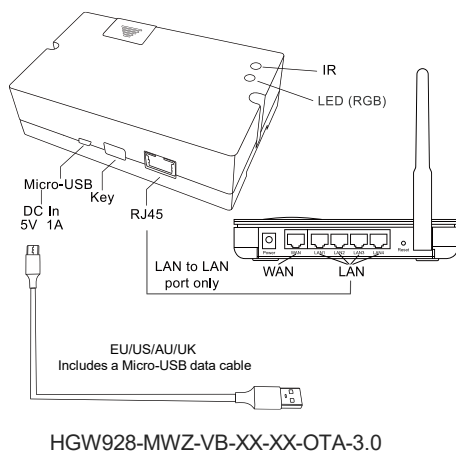
### Mechanical and Housing

|                    |       |
|--------------------|-------|
| Structure Material | PC V0 |
| Fixture Color      | White |

### Operating and Electrical

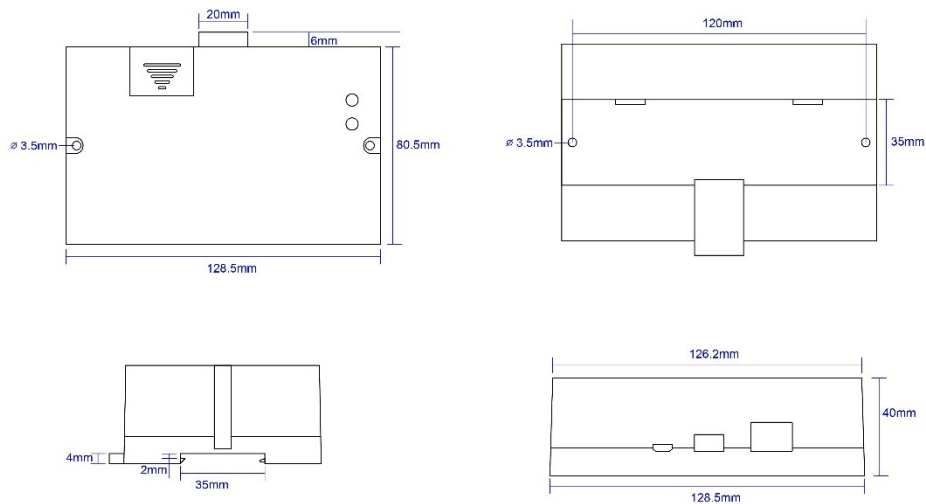
|                             |                                    |
|-----------------------------|------------------------------------|
| Input                       | DC 5V (1A MAX)                     |
| Ethernet                    | 100M                               |
| Frequency                   | 2.4GHz                             |
| Standby Power               | <0.5W                              |
| Surge Protection            | 1KV                                |
| Isolation Voltage           | 3750V                              |
| Infrared Receiving Distance | 5m                                 |
| Control Distance            | IA、EA、EAC : 30m<br>BEA、BEAC : 100m |

### Wire Connection

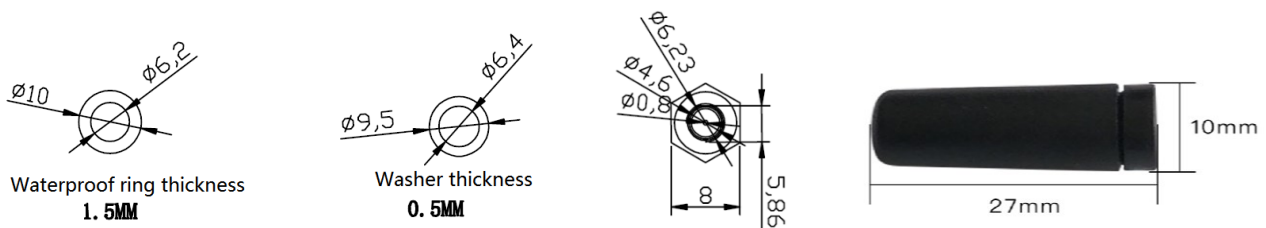




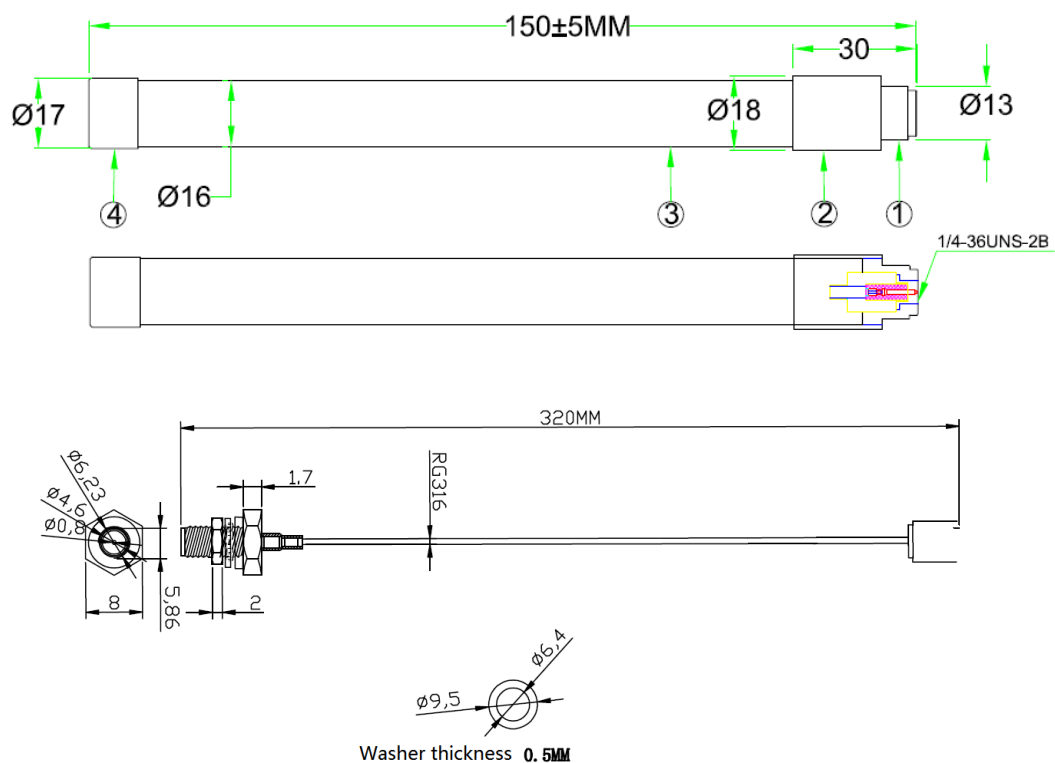
## Product Dimensions



### External Antenna Dimensions(Unit:mm)



### External Cable Dimensions (Unit:mm)





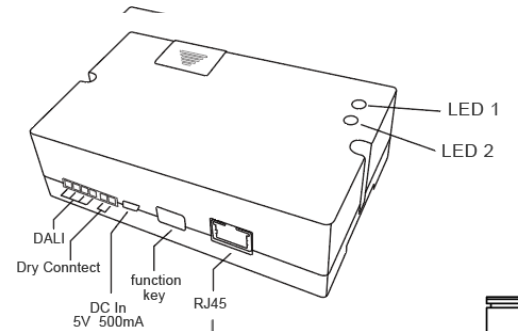
## Button function

The key functions on the gateway are:

- Short press (<3 seconds) to send gateway information to the application software.
- Long press (>3 seconds and <8 seconds) to restore the login password of this gateway to 00000000 and set the gateway to DHCP mode.
- Long press (>10 seconds) to clear the association between the gateway and the SaaS account.

## LED Indicator

- The LED of gateway can do:
- RED LED - Indicates that the gateway connection fails
- Green LED - Indicates that the gateway is successfully connected
- Red/Green LED Flash - Searching for ZigBee devices



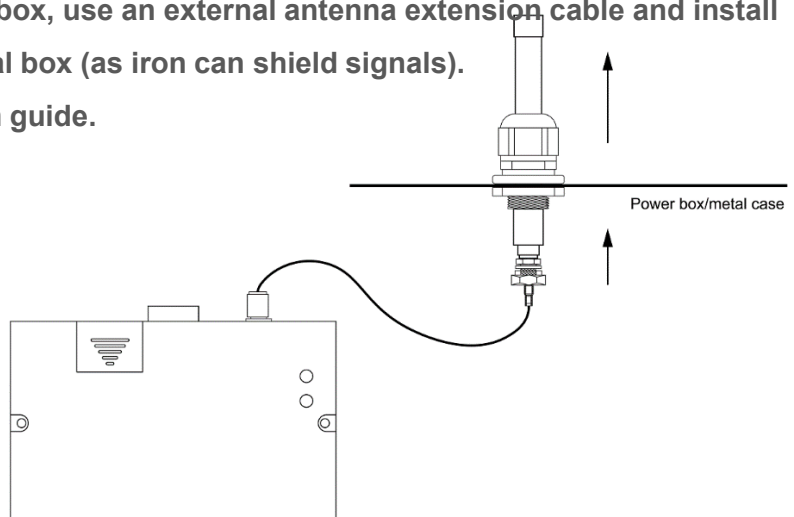
## Battery

The gateway uses CR2032 batteries to power the real-time clock, so

- When the gateway is not connected to the Internet or mobile phone, the gateway power off and then power on again, the timing in the gateway can continue to work.
- When the battery is low, the application software displays a low battery warning.

## Installation instructions

- Set up a LAN environment: routers, switches, gateways, and servers are all on the same LAN.
- The network cable used by a gateway to connect to a router or switch must be less than 100m long.
- There should be at least 30cm of space between the gateway and the router.
- If the gateway is enclosed in a metal box, use an external antenna extension cable and install the antenna head outside of the metal box (as iron can shield signals).
- External antenna version installation guide.





## Software Operation

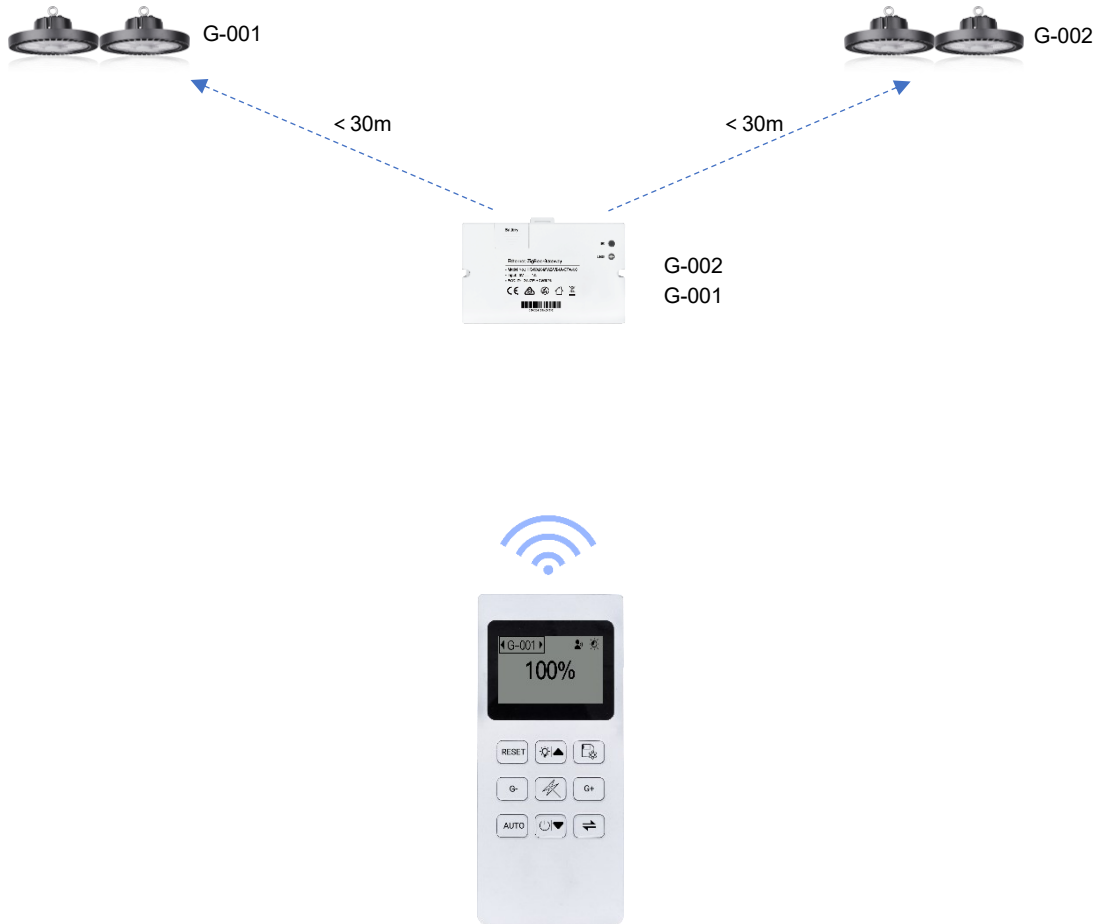
- Download the iLightsin Sync app from the APP store then install the app.
- Open the installed iLightsin Sync app after the gateway is powered on.
- Register an account and log in to the gateway.
- For detailed software operations, refer to the "iLightsin Sync Operation Manual.pdf"

## Parameters

| Adapter                          | EU(100-240Vac)                                                                                 | US(100-277Vac)                                                                                 | UK(100-240Vac)                                                                                 | AU(100-240Vac)                                                                                 | CN(100-240Vac)                                                                                 |
|----------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Model                            | HGW928-MWZ-VB-IA-EU-OTA-3.0                                                                    | HGW928-MWZ-VB-IA-US-OTA-3.0                                                                    | HGW928-MWZ-VB-IA-UK-OTA-3.0                                                                    | HGW928-MWZ-VB-IA-AU-OTA-3.0                                                                    | HGW928-MWZ-VB-IA-CN-OTA-3.0                                                                    |
|                                  | HGW928-MWZ-VB-EA-EU-OTA-3.0                                                                    | HGW928-MWZ-VB-EA-US-OTA-3.0                                                                    | HGW928-MWZ-VB-EA-UK-OTA-3.0                                                                    | HGW928-MWZ-VB-EA-AU-OTA-3.0                                                                    | HGW928-MWZ-VB-EA-CN-OTA-3.0                                                                    |
|                                  | HGW928-MWZ-VB-EAC-EU-OTA-3.0                                                                   | HGW928-MWZ-VB-EAC-US-OTA-3.0                                                                   | HGW928-MWZ-VB-EAC-UK-OTA-3.0                                                                   | HGW928-MWZ-VB-EAC-AU-OTA-3.0                                                                   | HGW928-MWZ-VB-EAC-CN-OTA-3.0                                                                   |
|                                  | HGW928-MWZ-VB-BEA-EU-OTA-3.0                                                                   | HGW928-MWZ-VB-BEA-US-OTA-3.0                                                                   | HGW928-MWZ-VB-BEA-UK-OTA-3.0                                                                   | HGW928-MWZ-VB-BEA-AU-OTA-3.0                                                                   | HGW928-MWZ-VB-BEA-CN-OTA-3.0                                                                   |
|                                  | HGW928-MWZ-VB-BEAC-EU-OTA-3.0                                                                  | HGW928-MWZ-VB-BEAC-US-OTA-3.0                                                                  | HGW928-MWZ-VB-BEAC-UK-OTA-3.0                                                                  | HGW928-MWZ-VB-BEAC-AU-OTA-3.0                                                                  | HGW928-MWZ-VB-BEAC-CN-OTA-3.0                                                                  |
| Input                            | DC 5V (1A MAX)                                                                                 |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Ethernet                         | 100M                                                                                           |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Frequency                        | 2.4GHz                                                                                         |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Control Distance                 | IA 、 EA 、 EAC : 30m                                                                            |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
|                                  | BEA 、 BEAC : 100m                                                                              |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Infrared Remote Control Distance | 5m                                                                                             |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Operating Temperature            | -20℃ ~ 55℃                                                                                     |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Weight (Only Gateway)            | 140g (no external Antenna)                                                                     |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Weight (Package)                 | 273g<br>(no external Antenna)<br>Small Antenna:+8g<br>Big Antenna: +57g<br>External Cable:+17g | 273g<br>(no external Antenna)<br>Small Antenna:+8g<br>Big Antenna: +57g<br>External Cable:+17g | 277g<br>(no external Antenna)<br>Small Antenna:+8g<br>Big Antenna: +57g<br>External Cable:+17g | 270g<br>(no external Antenna)<br>Small Antenna:+8g<br>Big Antenna: +57g<br>External Cable:+17g | 273g<br>(no external Antenna)<br>Small Antenna:+8g<br>Big Antenna: +57g<br>External Cable:+17g |
| Size                             | 128.5*80.5*40mm                                                                                |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Package Size                     | 189*102*66mm                                                                                   |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Package                          | 1PCS/package                                                                                   |                                                                                                |                                                                                                |                                                                                                |                                                                                                |
| Housing Material                 | PC V0                                                                                          |                                                                                                |                                                                                                |                                                                                                |                                                                                                |



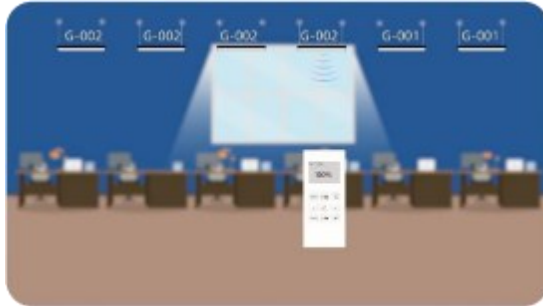
## Operation Settings



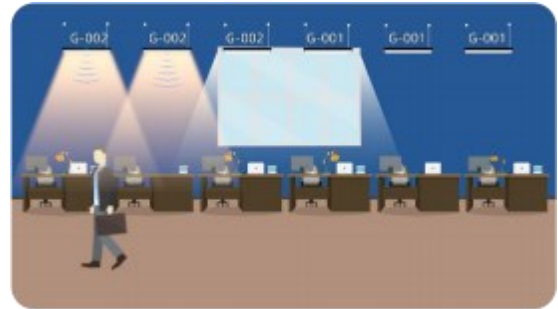
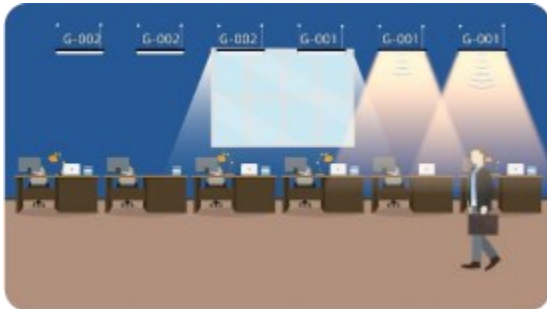
After adding the Gateway to the G-001 group using the Magic Wand smart remote control, the G-002 groups are automatically created. The smart touch screen can control the lights in the G-001, G-002, groups. The distance between the touch screen and the lights in the two groups should not exceed 30 meters.



## Typical Working Scenarios



The “Magic Wand” smart lamps of HOMA are embedded with motion sensor and daylight sensor, using a “Magic Wand” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Magic Wand” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual lamp with one button, and change lamp brightness. In one group, the motion sensors work together to control these grouped lamps, and the daylight sensors control the individual lamps on/off according to the ambient brightness.

The magic wand serial include panel, linear light, tri-proof light, highbay, LED tube. This kind of smart lamps can be used for industrial and commercial area, example offices, warehouses, factories, parking and others.