

GE Sol Product User Manual

Function Instruction

1. Sol itself: On/Off, Dimming (5%-100%), CCT
2. Scheduling: Set up scheduling (or later smart control features), include time, brightness, CCT, fade, trigger.
3. Administrator Control:
 - a. Sol can connect and control CbyGE devices include C-life/C-Sleep/BR30/Sensors/Swtiches, etc.
 - b. Sol can set up group/scene/schedule settings with other CbyGE bulbs (C-life/C-Sleep/BR30) and sensors.
4. Voice Control: Compatible with Amazon Voice Service (AVS), use CbyGE Smart Lights skill which base on Amazon smart home skill.
 - a. Activation: Say “Alexa” or press the activation button on panel
 - b. Voice Command List:
 - “Alexa, turn on ____ (C by GE bulb name)”
 - “Alexa, set ____ (C by GE bulb name) to __%”
 - “Alexa, turn off ____ (Echo/Alexa group name)”
 - “Alexa, dim ____ (Echo/Alexa group name) (by25%)”
 - “Alexa, brighten ____ (Echo/Alexa group name) (by 25%)”
 - “Alexa, change ____ (C by GE bulb name) to shade of white”
 - “Alexa, make ____ (C by GE bulb name) warm white”
 - “Alexa, set ____ (C by GE bulb name) to daylight”
 - c. The AVS will interpret the voice and send command to Sol.
 - d. During voice control phase, the inner ring as indicator will on.
5. Voice Service: Support all Amazon Voice Service. For example, shopping, playing music, call Uber, etc
6. Tele control (Out of home control): Allow App to control Sol & bulbs & sensors even if the phone and CbyGE devices are not in the same LAN. (Ensure Sol keep connected to internet, Sol & other CbyGE devices in same mesh network.). For example, the user is in office, can use App to turn on/off the CbyGE device at home. But voice control will not support far field control.
7. OTA: The firmware package will store in cloud, and check the update once per day. If there is an update, App will remind users.
8. Inner speaker: Include one speaker internally, users can control the volume up/down/mute by press the button on panel or voice control.
9. Timer: Inner ring indicates the last minute and remind time up.
10. Clock: Inner ring indicates rough time, missing at base part.

Appearance:



Buttons

Microphone Off:

Stop the microphone to capture voice, it will keep off status when the Sol restart until press the button again to recover.

Volume:

Slide the volume adjust area to turn up/down the volume.

Press the +/- icon to turn up/down the volume

Press middle point for 1 second to quickly switch to 25%/50%/75% volume

Voice control the vloume

Dimming:

Slide the dimming area to turn up/down the brightness.

Press the +/- icon to turn up/down the brightness

Press middle point for 1 second to quickly switch to 25%/50%/75% brightness

Voice control the brightness

Activation:

Short press to activate the AVS

Long press 5 seconds to clear the router configuration and enter set up mode.

Ring switch:

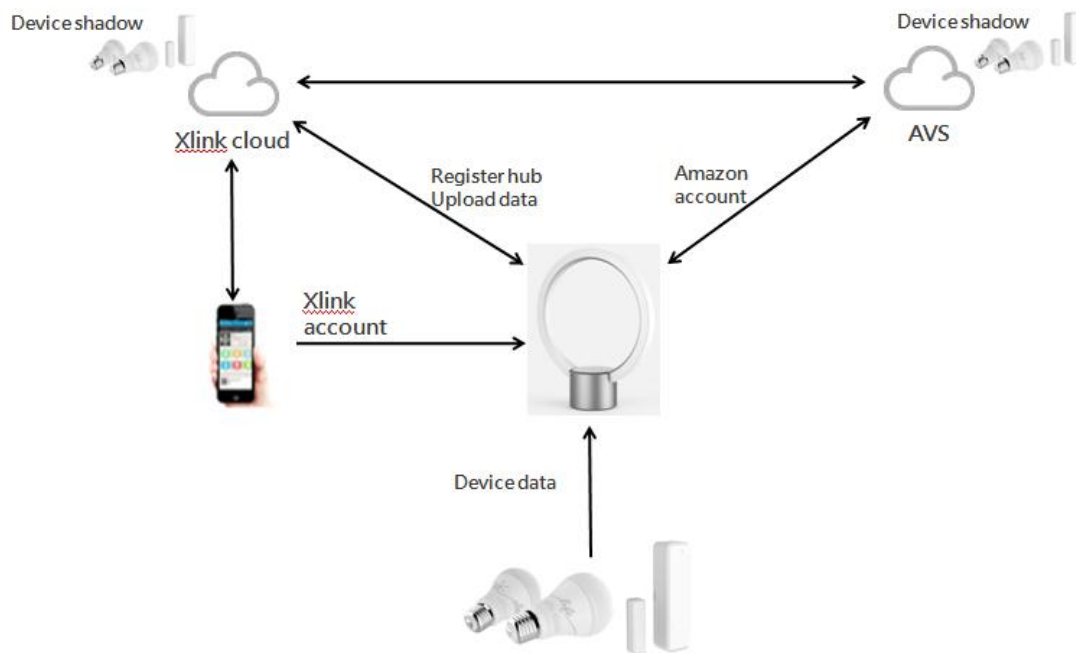
Short press switch to turn on/off the outer ring

Long press 10 seconds when microphone off status, it will close the inner ring.

Combination—Activation + Microphone off:

Long press for 20s to factory reset.

Working Architecture:



Setting:

1. Phone Setting:
 - a. Create/Log-in account on CbyGE App
 - b. Pair the Wi-Fi inside the Sol to the LAN, home router network
 - c. Log-in Amazon account on Cbyge App -- Start AVS directly
 - d. Enable the CbyGE skill on Alexa App and link the CbyGE account – Start CbyGE voice control
2. Phone Control:
 - a. Add Sol first, then add other lights or accessories
 - b. Set group, scene, schedule, all include in Sol
 - c. Status feedback to phone
3. Communication between phone and Xlink Cloud (CbyGE cloud): account info and configurations
4. Communication between Sol and AVS
 - a. Sol capture the voice command and upload to AVS.
 - b. AVS get the device status feedback and send back to Sol for speak out.
5. Communication between AVS and Xlink cloud (CbyGE cloud)
 - a. AVS interpret the voice command to text, then go through Lambda function transfer to Json command, and send to Xlink cloud.
 - b. Xlink cloud send back the device status to Lambda and AVS with text.
6. Communication between Xlink Cloud and Sol
 - a. Find the objected device in the cloud and send complete control command to Sol.
 - b. Sol has all the device list and status, and send back to Xlink cloud.
7. Sol control the bulbs and interact with other accessories: The Wi-Fi module handle every command and send command through BLE mesh. Bulbs send back status to Sol.

Parameter:

| 产品型号 | SOL |
|------------------|--|
| Rated Voltage | 100-120V |
| Rated Power | 25W |
| Outer Ring Power | ≤10W |
| Outer Ring LED | 2000K 650lm CRI>70 3000K 600lm CRI>80 6500K 350lm CRI>80 |
| Dimming | 5%-100% |
| Inner Ring Power | ≤6W |
| Buttons | 5 (Base Top) : Microphone off Activation |

| | |
|---------------------|---|
| | Volume slider Brightness slider Ring switch |
| Indicators | Microphone off (red) Ring switch (white) |
| Work Temperature | 0°C~40°C |
| Storage Temperature | -20°C~70°C |
| IP Level | IP20 |
| Wireless | Yes |
| Ethernet | No |
| Clock | Yes |
| Siri | No |
| Alexa | Yes |
| Tele Control | Yes |
| OTA | Yes |
| Factory Reset | Yes |

Ring Indication:

| RING INDICATION | | | | |
|-----------------|-----------------|---------------------------|---|---|
| Object | Status | Light Color | Light Dynamic | Detail |
| Outer Ring | Booting up | CCT 6500K | Spin slow | |
| Inner Ring | Idle:LED off | Off | | |
| Inner Ring | Idle:Mic mute | Red | On | |
| Ring | Idle:clock | hour:green minute:blue | Outer:1 LED/min Inner:1 LED/hour | |
| Inner Ring | Booting up | Blue, Green | Green:spin slow Blue:spin fast | Blue LEDs on, green LED spot spin until OK. Then blue LED off from middle to 2 end |
| Inner Ring | WiFi Setup mode | Orange | Spin slow | Spot |

| | | | | |
|---|-------------------|-------------|------------------|--|
| Inner Ring | Wake up | Blue | Spin fast | LED on, from 2 end to up |
| Inner Ring | Listening | Blue | 50ms/cycle | Alternately flash of 50% brightness of the whole & 100% brightness of top 11 LEDs |
| Inner Ring | Thinking | Blue, White | Blink fast, spin | Whole ring |
| Inner Ring | Talking | Blue, White | Blink slow | Whole ring |
| Inner Ring | Privacy mode on | Red | On | |
| Inner Ring | Privacy mode off | Off | | |
| Inner Ring | Exception | Yellow | Blink slow | Whole ring, 3 times |
| Inner Ring | volume +/- | White | On | White LED length show the volume, clockwise |
| Inner Ring | Network error | Red | Blink slow | Whole ring, 10 times |
| Inner Ring | Mute by voice | White | Blink fast | Top 11 LEDs, 3 times |
| Inner Ring | Reset router info | Orange | Spin slow | Spot |
| Inner Ring | Reset SOL | Green | Blink slow | Whole ring, 6 times |
| Inner Ring | Timer | white | 1 LED/s | When the last minute, whole LEDs is on for 5 seconds, then turn off 1 LED/s, anticlockwise |
| <p>Remark:</p> <p>The cycle of blink (slow) :1s</p> <p>The cycle of blink (fast) :400ms</p> <p>The speed of spin circles (slow) :45ms/spot, clockwise</p> <p>The speed of spin circles (fast) :20ms/spot</p> <p>The brightness of LED in dark circumstance: 50%</p> <p>The brightness of LED in bright circumstance: 100%</p> <p>When convert the switch of outer ring, the time of LEDs gradual change:3s</p> <p>When the spot spin, each spot contain 2 LEDs; moving only one LED at every time.</p> <p>CCT of inner ring:5000k</p> | | | | |

FCC statement

This equipment has been tested and found to comply with the limits for a Class B

digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

RF exposure warning

- This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.