HOWARD LIGHTING RC-100 Sensor Remote Programmer Instruction Manual

RC-100
Sensor Remote Programmer
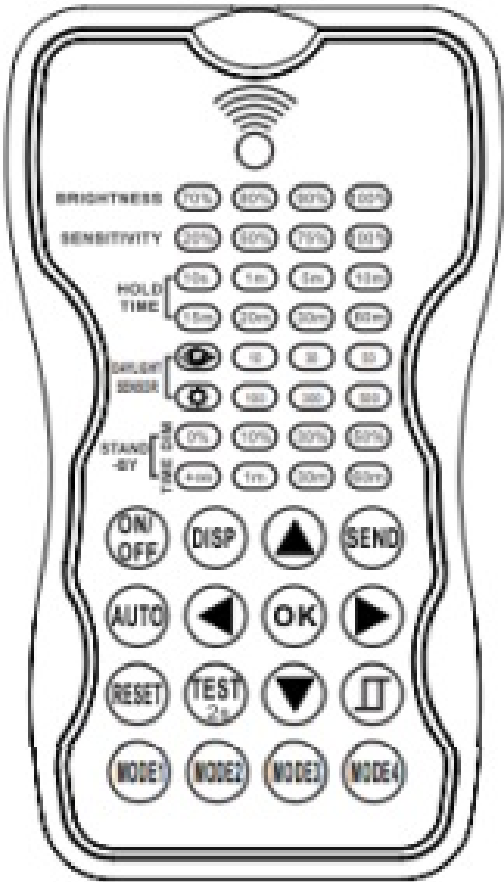
OPERATION INSTRUCTIONS

Contents

SPECIFICATIONS

Power supply	2 x AAA 1. 5V battery, Alkaline preferred
Carrying case	RC-100 in carrying case
Upload range	Up to 15 m (50 ft.)
Op. temperature	0°C~50°C (32°F~122°F)
Dimensions	123 x 70 x 20.3 mm (4. 84″ x 2.76″ x 0. 8″)

⚠️ **WARNING**

Remove the batteries from the compartment if the remote will not be used in 30 days.

OVERVIEW
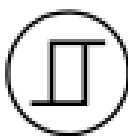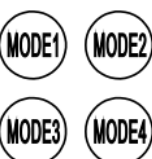
The remote control Wireless IR Configuration Tool is a handheld tool for remote configuration of IR-enabled fixture integrated sensors. The tool enables the device to modify via pushbutton without ladders or tools, and stores up to four sensor parameter modes to speed configuration of multiple sensors.

The remote control uses bidirectional IR communication to send and receive sensor settings at a mounting height up to 50 feet. The device can display previously established sensor parameters, copy parameters and send new parameters, or store parameter profiles. For projects where identical settings may be desired across a large number of areas or spaces, this capability provides a streamlined method of configuration. Settings can be copied throughout a site or on different sites.

LED INDICATORS

LED	DESCRIPTION	LED	DESCRIPTION
BRIGHTNESS	High-end trim turning function(To Set the output level of connected lighting during occupancy)		To select the current surrounding lux value as the daylight threshold. This feature enables the fixture to function well in any real application circumstances.
SENSITIVITY	To set the occupancy sensing sensitivity of the Sensor		The daylight sensor stops working, and all motion detected could turn on the lighting fixture, no matter how bright the natural light is.
HOLD TIME	The time that the Sensor will turn off(if you choose stand-by level is 0) or dim the light to a low level after the area is vacated	STAND-BY DIM	To set the output level of connected lighting during the vacancy. The sensor will regulate the lighting output at the set level. Setting the STAND-BY DIM level at 0 means light full off du ringvacancy.
DAYLIGHT SENSOR	To represent various thresholds of natural light level for the Sensor.	STAND-BY TIME	To represent the time that the Sensor will keep the light at a low dim level after the HOLD TIME elapsed.

BUTTON OPERATION

BUTTON	DESCRIPTION	BUTTON	DESCRIPTION
ON/OFF	Press the (ON/OFF) button, the light goes to permanent on or permanent off mode , and the sensor is disabled. (MUST press .(AUTO) button to quit this mode for Setting.	AUTO	Press .(AUTO) button, the sensor starts to function and all settings remain the same as the latest status before the light is switched on-off.
DISP	Display the current/lastest setting parameters in LED indicators(the LED indicators will be on for showing the setting parameters).	TEST 2s	The button (TEST 2s) is for testing purposes sensitivity only. after you choose sensitivity thresholds, then you press the (TEST 2s) button, The sensor goes to test mode(hold time is only 2s) automatically .meanwhile the button standby period and daylight sensor arePress the .(AUTO) button to quit from this mode.
RESET	Press (RESET) button, all settings go back to settings of dip Switch in the sensor.		
▲ ▼	Enter in the setting condition, the parameter LEDs of the remote control will flash to be selected. and Navigate to UP and Down to choose selected parameters in LED indicators.	◀ ▶	Navigate to LEFT and RIGHT to choose selected parameters in LED indicators.
OK	Confirm the selected parameters selected parameters in the remote control .	⎍	Open and close smart daylight Sensor. Press ▲ or ▼ Enter in the setting condition, the parameter LEDs of the remote control will flash to be selected, Press ⎍ for open or close smart daylight Sensor.
SEND	Press (SEND) button, upload the current parameters to sensor(s), the led light which the sensor connects will Wolf as confirmed.		
MODE1 MODE2 MODE3 MODE4	4 Scene modes with preset parameters are available to be changed and saved in modes.		

SETTING

The SETTING Content contains all available settings and parameters for remote sensors. It allows you to change the available control, parameters, and operation of the sensor from factory default or current parameters.
Change multiple settings of the sensor(s)

1. Press (DISP) the button, the remote control LEDs will show the latest parameters you set.

   NOTE: if you push (ON/OFF) button before, you must push .(AUTO) button to unlock the sensor.

2. Press ⏶ or ⏷ enter in the setting condition, the parameter LEDs of the remote control will flash to be selected, navigate to the desired setting by pressing ⏶⏷◀▶ to select the new parameters.

3. Press ok to confirm all settings and savings.

4. Aim at the target sensor and press to upload the new parameter, the led light which the sensor connects will be on/off as confirmed.

   NOTE: the setting works key step is by Push ⏶ or ⏷, enter in the set condition.

   NOTE: the led light which the sensor connects will be on/off after getting the new parameter as confirmed.

   NOTE: If you press (DISP) a button, the remote led indicators will show the latest parameters which were sent.

Change multiple setting of sensors with smart photocell sensor Open

1. Press (DISP), the remote led indicators will show the latest parameters.

2. Press or enter in the setting condition, the parameter Led indicators of the remote control will flash to be selected.

3. Press (Ⅱ), 2 led indicators will flash in daylight sensor settings, select daylight (10) (30) (50) as a setpoint to light on Automatically, select daylight (100) (300) (500) as a setpoint to light off Automatically.

4. Press (OK) to confirm all settings and savings.

5. Aim at the target sensor and press (SEND) to upload the new parameter. The led light which the sensor connects will be on/off.

NOTE: (Ⅱ) is disabled by default.

1. Open or close the smart daylight sensor by pushing (Ⅱ) when the remote control is in setting condition.

2. When the smart daylight sensor opens, 2 Led indicators are flash in the daylight sensor setting. select daylight (10) (30) (50) as a setpoint to light on Automatically, select daylight as (100) (300) (500) a setpoint to light off automatically. When the smart daylight sensor is closed, 1 Led indicator is flash in the daylight sensor setting for choose daylight sensor threshold.

3. When the smart daylight sensor opens, the standby time is only. (+∞)

4. Smart daylight sensor takes place of a normal photocell sensor and works independently.

5. See Daylight Sensor Function.

Corridor Function

This function inside the motion sensor to achieve tri-level control, for some areas which require
a light change notice before switch-off. The sensor offers 3 levels of light: 100%–>dimmed light(natural light is insufficient) –>off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.
|With sufficient natural light, the light does not switch on when presence is detected.
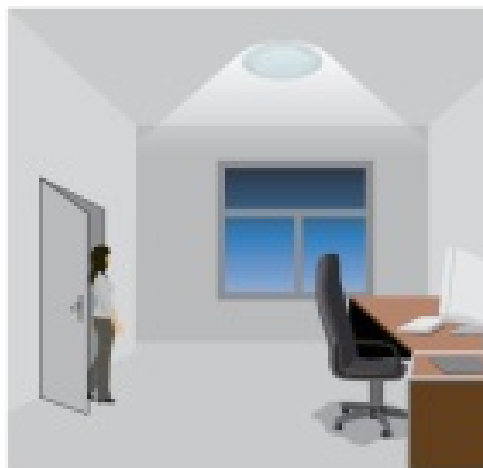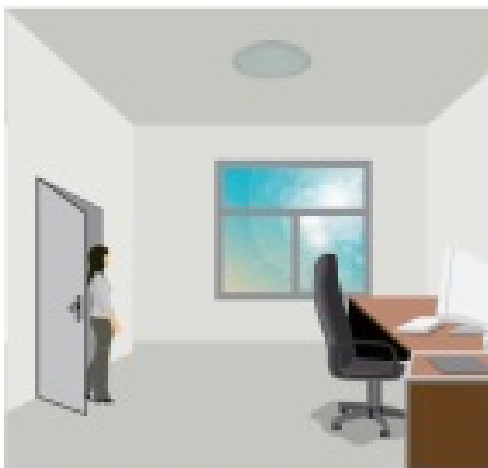
With insufficient natural light, the sensor switches on the light automatically when presence is detected.
After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.
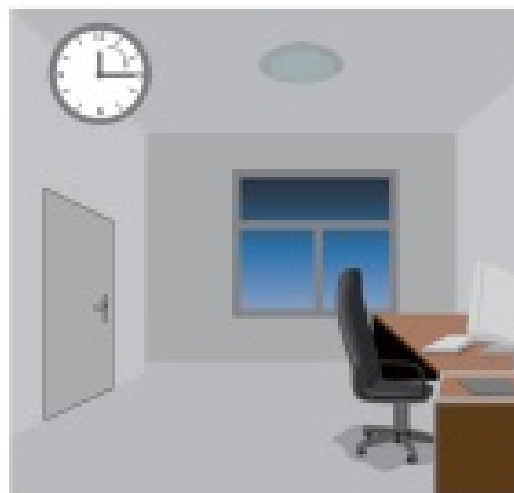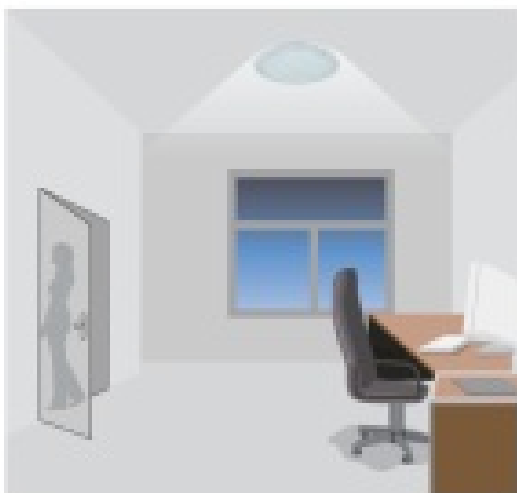
Light switches off automatically after the stand-by period elapses.

Daylight Sensor Function

Open the daylight sensor by pushing ⊔ when the remote control is in setting condition.

The light switches on at 100% when there is movement detected.

The light dims to stand-by level after the hold-time.

The light remains at a dimming level at night.
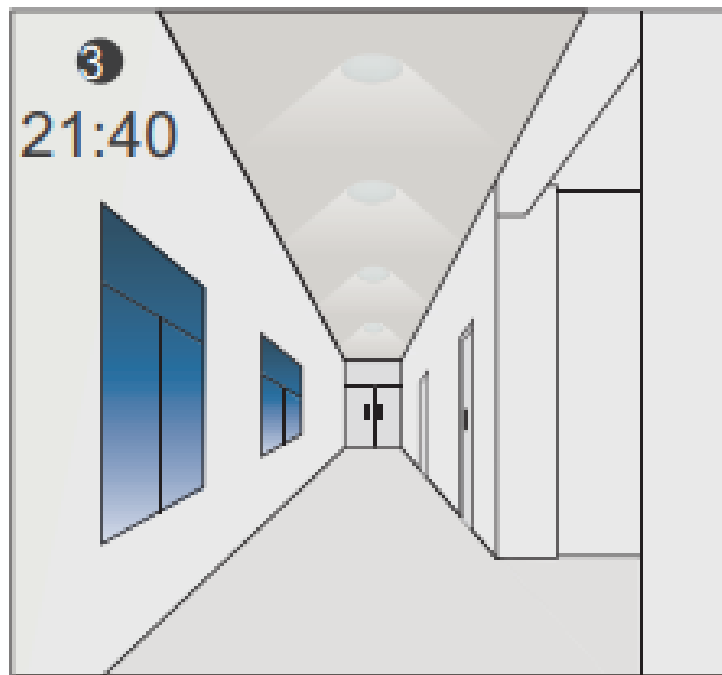
Settings on this demonstration: Hold-time: 30min setpoint to light on:50lux setpoint to light off:300lux Stand-by Dim: 10% Stand-by period: +∞ (when the smart photocell sensor open, the standby time is only +∞)
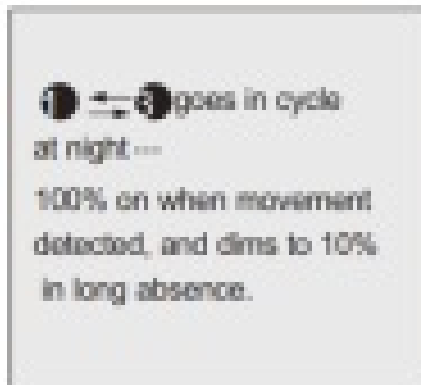
When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied. The light automatically turns on at 10% when natural light is insufficient (no motion).
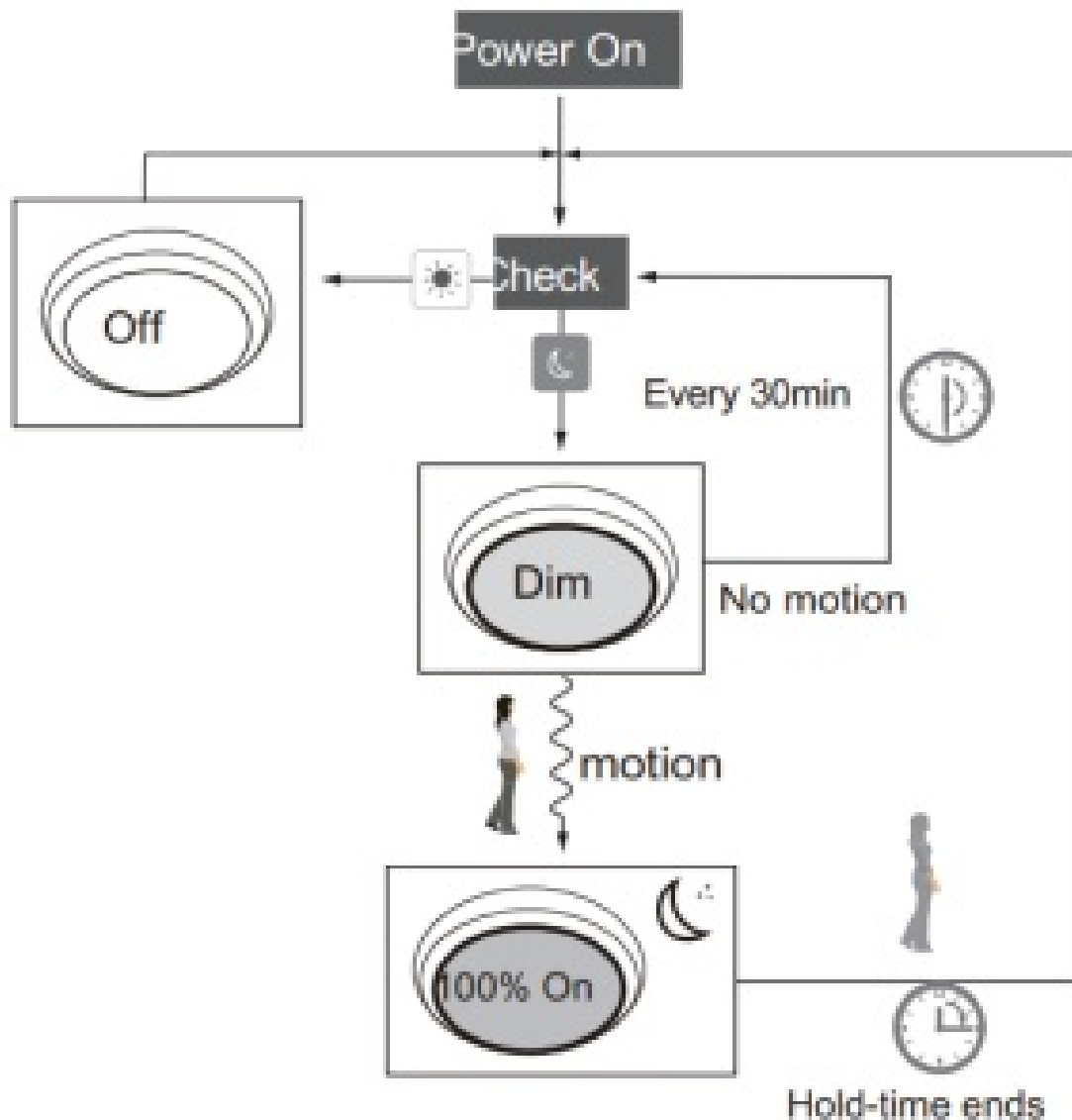
Corridor Function VS Daylight Sensor Function.

1. In corridor function, turn on the light MUST by natural light level lower daylight sensor setting and Occupancy. In the smart daylight sensor function, turn on the light by natural light level lower daylight setpoint to light on even if vacancy.

2. In corridor function, turn off light by standby time finish if vacancy. In the smart daylight sensor function, turn off the light by natural light level higher than daylight setpoint to light off even if occupancy.

3. In smart daylight sensor function, natural light level lighter/lower than daylight setpoint to light off/on MUST keep at least 1mintue, that will turn off/on the light automatically.

About RESET and MODE(1,2,3,4)
The remote control comes with 4 Scene MODES which do not default. You may make desired parameters and save them as the new MODE(1,2,3,4) to configure the installed sensors.
RESET: all settings go back to settings of DIP Switch in the sensor.

SCENE MODES(1 2 3 4)

MODE	BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT SENSOR	STAND-BY DIM	STAND-BY TIME
MODE1	70%	20%	10s	☼	0%	+∞
MODE 2	70%	20%	10s	☼	0%	+∞
MODE 3	70%	20%	10s	☼	0%	+∞
MODE 4	70%	20%	10s	☼	0%	+∞

Change the MODES:

1. press (MODE1) / (MODE2) / (MODE3) / (MODE4) button, the remote control Led indicators to show existing parameters.

2. press ▲ ▼ ◄ ► to select the new parameters.

3. Press (OK) to confirm all parameters and save in the mode.

UPLOAD

The upload function allows you to configure the sensor with all parameters in one operation. May select CURRENT SETTING parameters or the MODE for uploading. Current setting parameters or the MODE are displayed in Remote control.

Upload the current parameters to sensor(s), and duplicate the sensor parameters from one to another

1. Press (DISP) the button or press (MODE1) / (MODE2) / (MODE3) / (MODE4) all parameters that are displayed in Remote control.

   Note: check if all parameters are correct, if not, change them.

2. Aim at the sensor and press the (SEND) button, the light that the sensor connects will be on/off as confirmed.

   Note: if another sensor needs the same parameters, just aim at the sensor and press the (SEND) button.

Documents / Resources

[HOWARD LIGHTING RC-100 Sensor Remote Programmer](#) [pdf] Instruction Manual
RC-100, Sensor Remote Programmer, Remote Programmer