MH10 REMOTE OPERATION INSTRUCTIONS

PARAMETER

Power Supply	2 x AAA 1.5V battery, Alkaline preferred
Upload Range	Up to 25m(82ft)
Working Temperature	0°C ~ 50°C(32°F-122°F)
Dimensions	175 x 56 x 27.45mm (6.89" x 2.20" x 1.08")

⚠ WARNING

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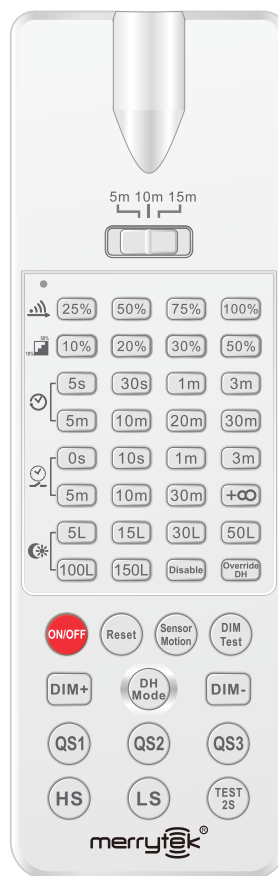
OVERVIEW

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

The remote control send sensor setting at mounting height up to 25m/82 feet.
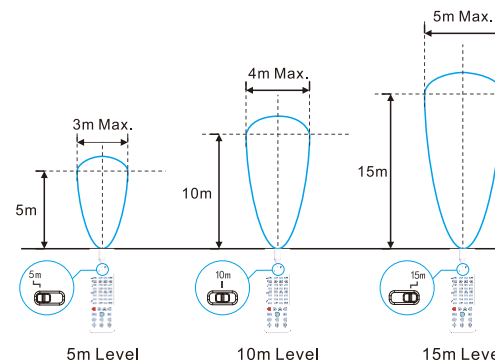
REMOTE CONTROL AND CODE SETTING CONVERSION

1. DIP switch setting convert to remote control Press any botton except "RESET" on the remote control, and the sensor settings convert to the function currently selected by the remote control. (No function button settings invalid)

2 remote control convert to DIP switch setting

   a. Press the "RESET" button on the remote control, and all settings return to the DIP switch settings of the sensor.

   b. Turn off the power, toggle any DIP switch, connect to the power, and all settings return to the DIP switch settings when supply power again.

Note: Not all Merrytek sensors have DIP switch, please confirm it in the specification. For the sensors without DIP switch, press "RESET" button will enter factory setting

BUTTON	REMARKS
ON/OFF	Press the "ON/OFF" button, the light enters the constant ON/OFF mode, and the sensing function is disabled. In ON/OFF mode, DIM+/DIM- function is available, it maintains the same brightness after powering on again. Power off under constant ON mode and then power on, the lamp enters constant OFF mode. Power off under constant OFF mode and then power on, the load lamp lights 2s and then enters constant OFF mode.
Reset	Press "Reset" button, all parameters are same as setting of DIP switch or factory settings. For the sensors without DIP switch, press "RESET" button will enter factory setting.
Sensor motion	Press "Sensor motion" button, the light quits from the constant on/ off mode, and the sensor starts to work (The latest setting stays in validity)
DIM Test	Press "DIM Test" button, the 1-10 V dimming works to test whether the 1-10Vdc dimming ports are connected properly. After 2s, it returns to the latest setting automatically.
Override DH	Long press>3s,daylight priority mode will be switched to daylight threshold mode ,with preset daylight value. For the sensors without DH mode, this button is invalid.
DIM + DIM -	Set occupany light level in range of 50%-100%,dim level is 5% each time press Dim+/Dim-
DH Mode	Long press>3s,sensor will be switched to daylight priority mode, if preset daylight value is "Disable", sensor will stay in daylight threshold mode.
QS1 QS2 QS3	Press QS1, QS2 & QS3 to program quickly. As this product is universal handset for most of Merrytek sensors. The corresponding parameters in QS mode is showed in the sensor specification.
TEST 2S	Press the "TEST 2S" button can enter the test mode any time. At the mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 5s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable. This function only for testing. Quit the mode by pressing "RESET" or any other function buttons.
HS LS	When sensor lights are installed in the location with high reflective materials such as metal, glass etc., the sensors may not turn off. Press "LS" button to enter low-sensitive mode to reduce the reflection. Press "HS" to enter high-sensitive mode. Note:1. LS mode is only workable when mounting height exceeds 8m/26ft. 2. Not all Merrytek sensors with HS/LS mode, check specification to confirm if it has the function.
☾☀	Daylight Sensor, set up daylight threshold: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable.
⏱	Stand-by Period, set up stand-by time: 0s/10s/1min/3min/5min/10min/30min/+∞
⏱	Hold Time, set up hold time: 5s/30s/1min/3min/5min/10min/20min/30min
📊	Stand-by Dim Level, set up stand-by dim level: 10%/20%/30%/50%
📶	Detection Area, set up detection area: 25%/50%/75%/100%
⬜	Remote Distance, toggle button can set the remote distance of remote control and sensor.

UNIQUE DESIGN OF INFRARED TRANSMITTING DEVICE
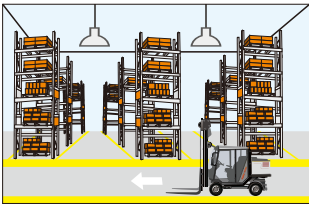
5m Level   10m Level   15m Level

FUNCTION

Before following functions programming, make sure the sensor is working in normal sensor mode.
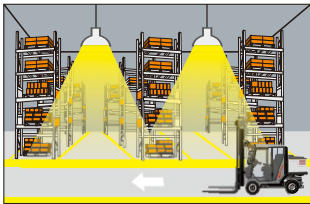Press button " Reset " to enter this mode.

1) ON/OFF function

To achieve ON/OFF function, press the corresponding buttons to set Detection Area, Hold time, Stand-by period and Daylight Threshold. Take the example for setting detection area 50%, hold time 30s and daylight threshold 15lux. Programming steps are as following,
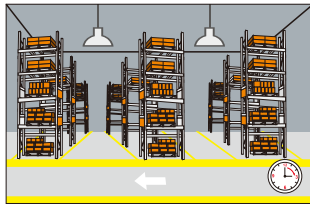
a. Press detection area button " 50% " and the light flash.

b. Press hold time button " 30s " and the light flash.

c. Press daylight light button " 15L " and the light flash.

d. Stand-by period setting must be "0s", press " 0s " and the light flash.

a. With sufficient ambient light ,the light will not be switched on even if with motion signal.

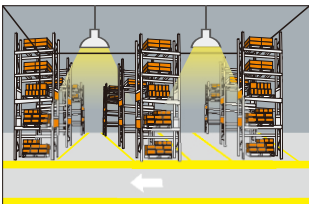b. With insufficient ambient light, the sensor switches on the light when motion is detected.

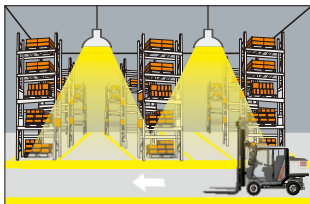c. After elapse of hold time, the sensor switches off the light when no motion is detected.

2) 2-step dimming function

To achieve 2-step dimming function, stand-by period must be set as "+∞", press " +∞ " and the light flash. Detection area, hold time, stand-by diming level and daylight can be programmable as user's requirement. Take the example for setting detection area 50%, hold time 30s, stand-by dimming level 20% and daylight threshold 15Lux. Programming steps are as following.
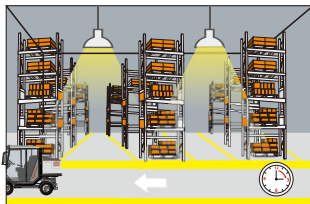
a. Press detection area button " 50% " and the light flash.

b. Press hold time button " 30s " and the light flash.

c. Pres stand-by dimming level button " 20% " and the light flash.

d. Press daylight sensor " 15L " and the light flash.

1. If there is no motion detected, the light will be remained at a low light level all the time.

2. When motion is detected, the sensor will switch on the light to 100% brightness.

3. After elapse of hold time, the sensor dimes the light at the present low light level if no motion is detected.
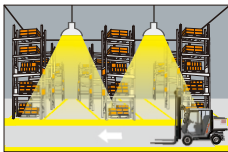
3) 3-step dimming function

To achieve 3-step dimming function, the detection area, hold time, stand-by period, stand-by dimming level and daylight can be programmable as user's requirement. Take the example for setting detection area 50%, hold time 30s, stand-by period 1min, stand-by dimming level 20% and daylight threshold 15Lux. Press buttons as following.
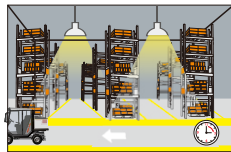
a. Press detection area button " 50% " and the light flash.

b. Press hold time button " 30s " and the light flash.

c. Press stand-by period button " 1m " and the light flash.

d. Pres stand-by dimming level button " 20% " and the light flash.

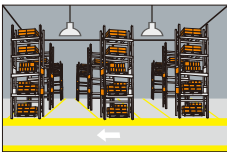e. Press daylight sensor " 15L " and the light flash.

1. With sufficient ambient light, the light will not be switched on even if with motion signa.

2. With insufficient ambient light, the sensor switches on the light when motion is detected.

3. After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.
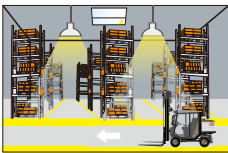
4. After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.
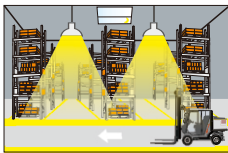
4) Daylight priority

Not all Merrytek sensors have Daylight priority function, check specification to confirm if it has the function.
Long press "DH mode" 3 seconds to enter "Daylight Priority" mode, then programming the detection area, hold time, stand-by period, stand-by dimming level and daylight as user's requirements.
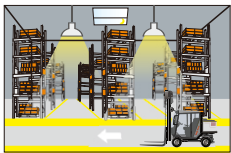In this mode, the turn ON/OFF daylight level is as table below,

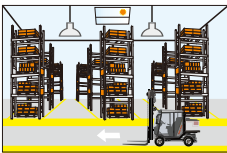| Press	Tun ON lux level	Tun OFF lux level	Press	Tun ON lux level	Tun OFF lux level
5L	5Lux	150Lux	50L	50Lux	150Lux
15L	15Lux	150Lux	100L	100Lux	200Lux
30L	30Lux	150Lux	150L	150Lux	300Lux

1. Lamp turns on at low light level 10% in the night.

2. Motion detected, lamp auto matically lights up to 100%.

3. After hold time, the lamp gradually dims to a low light level 10% if no movement detected.

4. Lamp turns off after dawn.