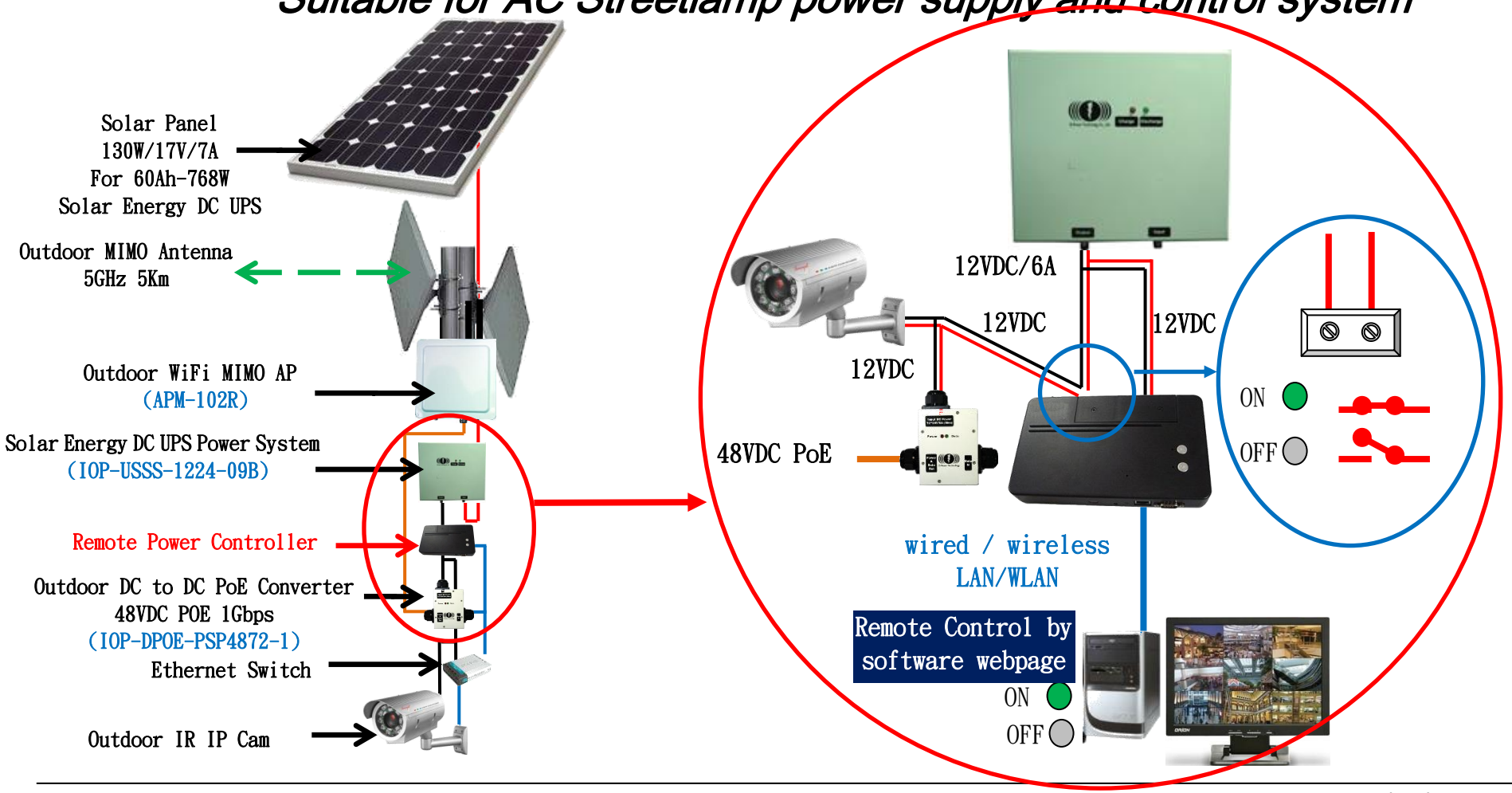
勁電科技有限公司 台灣新竹市 30053 北區金竹路 100 號 1 樓 IO-Power Technology Co., Ltd 1F., No.100, Jinzhu Rd., North Dist., Hsinchu City 30053, Taiwan
http://www.io-power.com http://www.io-power.com.cn e-mail: io-power@io-power.com.tw Tel:+886 3 5429395 Fax:+886 3 5357297 Cell:+886 933168849 Jacky Cheng

IO-Power Wireless Remote DC Power Controller System

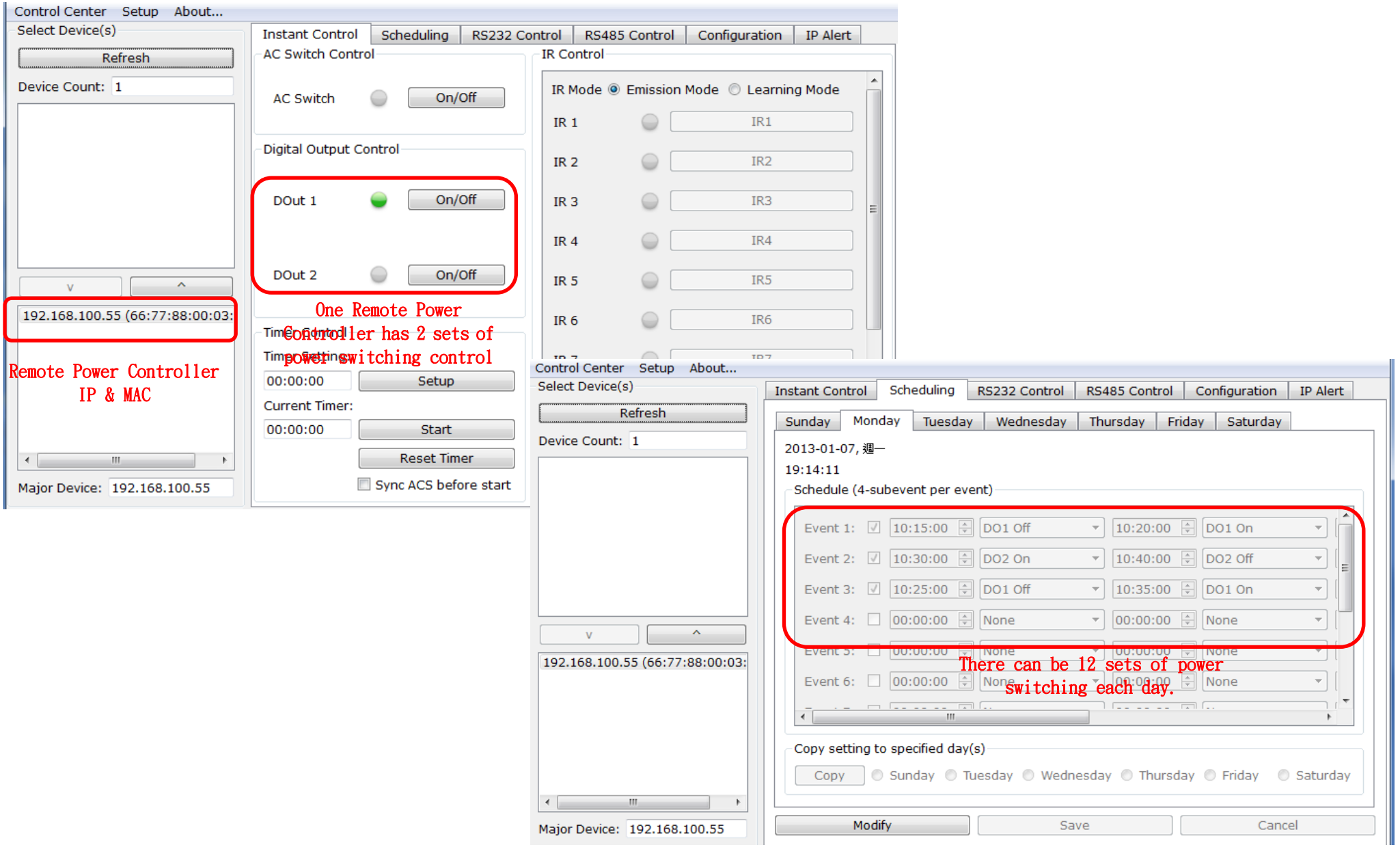
Suitable for Outdoor DC UPS Power System

Suitable for Solar Energy DC UPS Power System

Suitable for AC Streetlamp power supply and control system

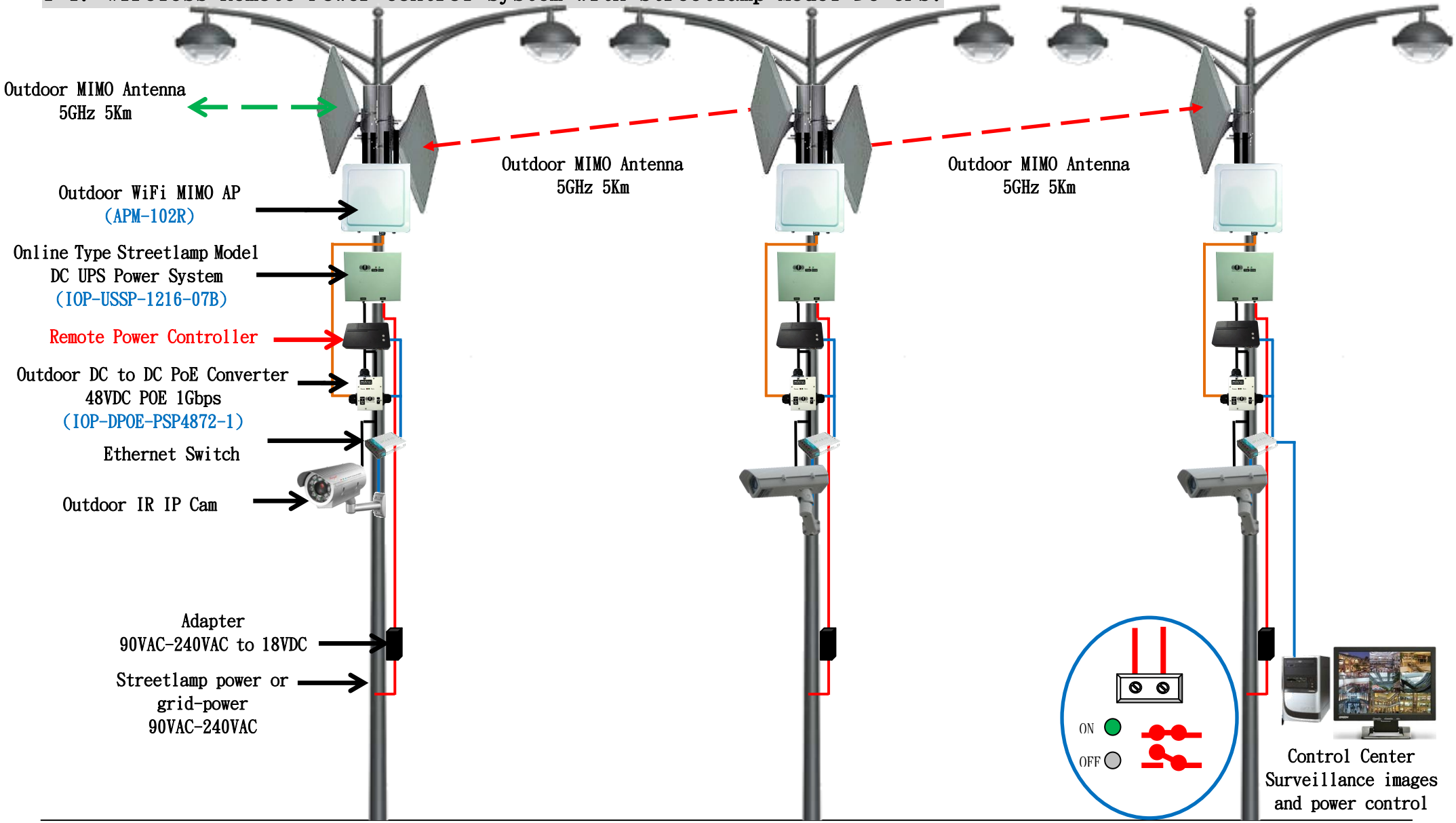


1、Remote Power Controller Operation Instruction:

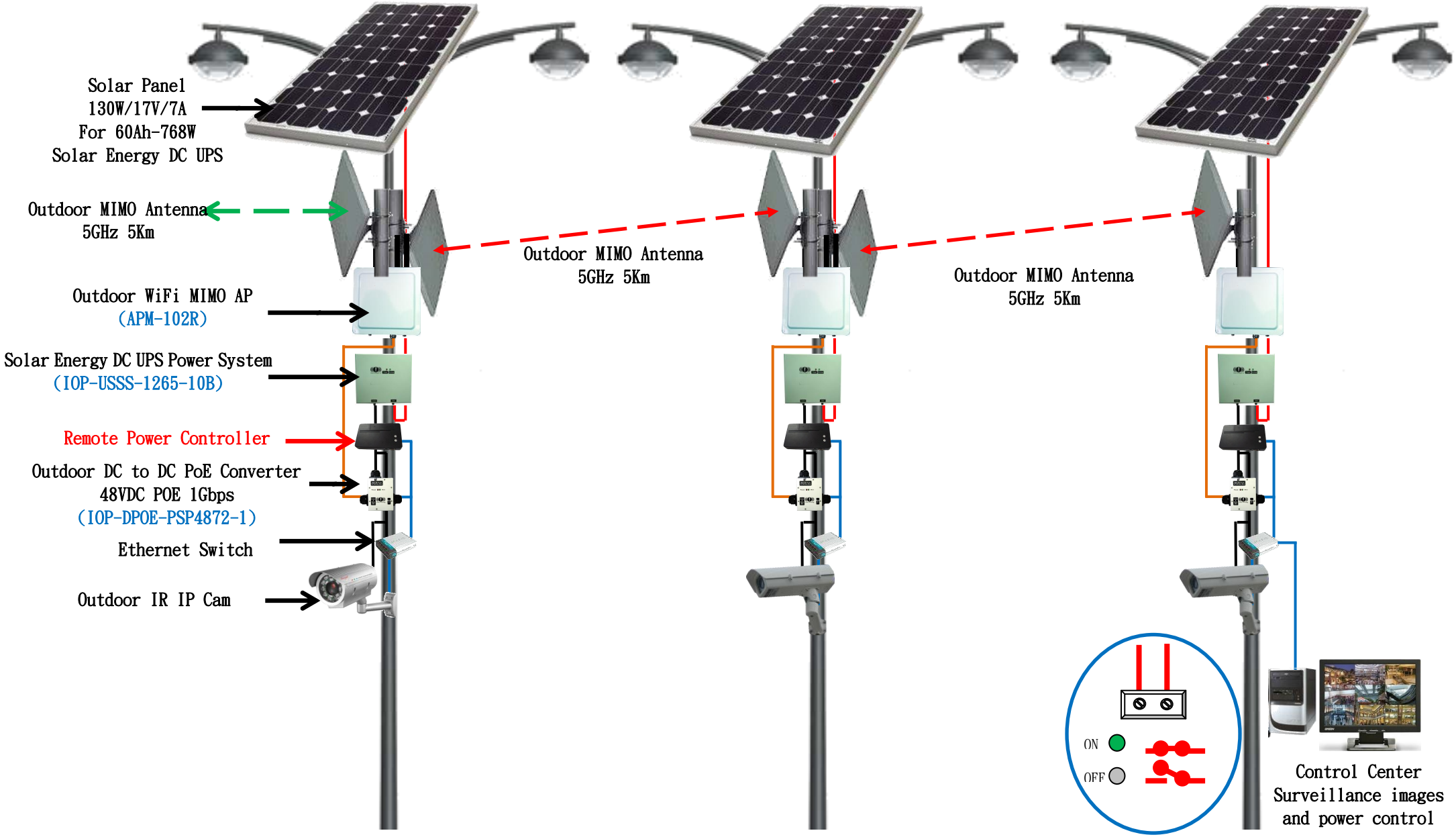


1、System Instruction

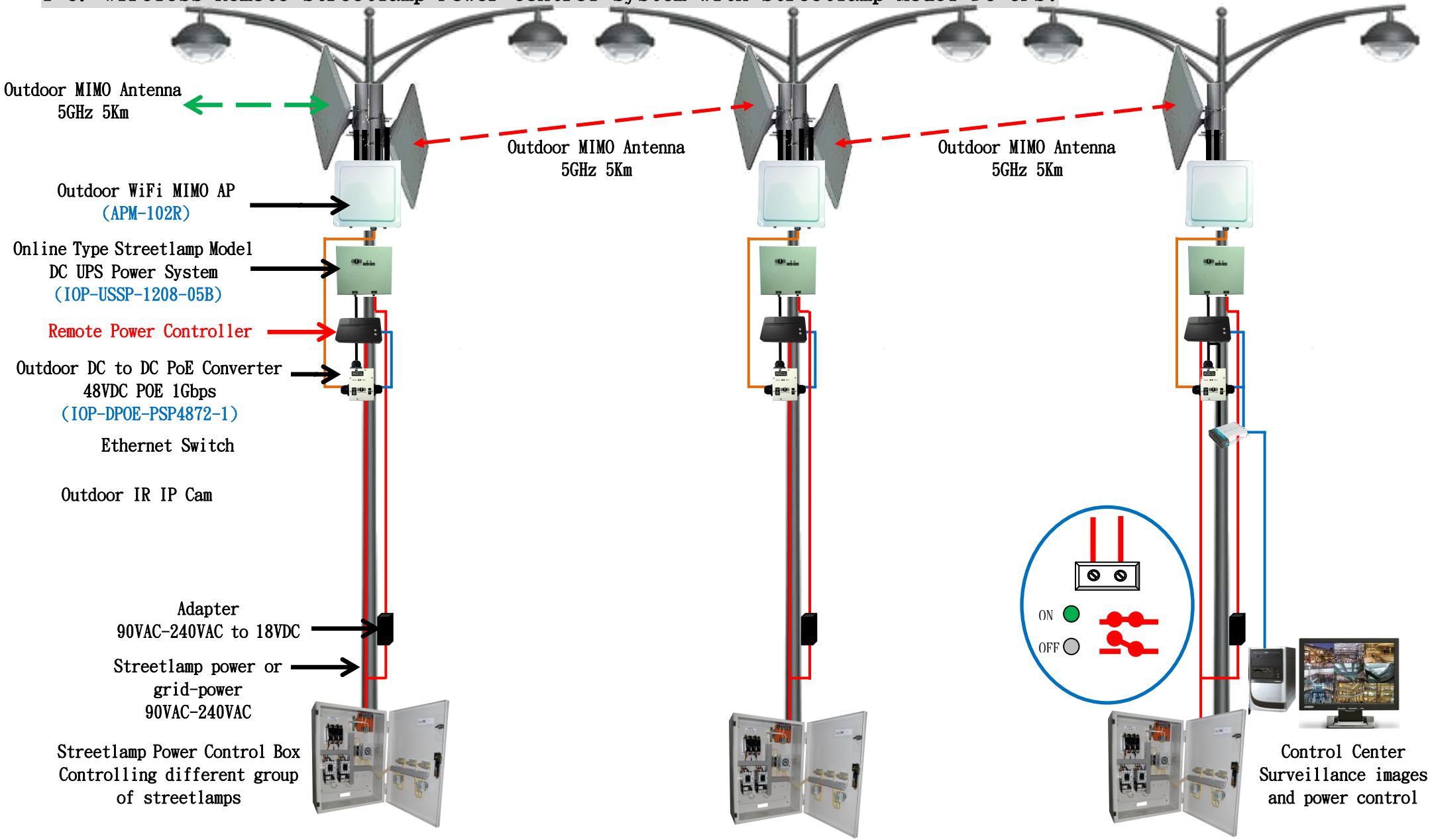
1-1. Wireless Remote Power Control System with Streetlamp Model DC UPS:



1-2. Wireless Remote Power Control System with Solar Energy DC UPS:



1-3. Wireless Remote Streetlamp Power Control System with Streetlamp Model DC UPS:



勁電科技有限公司 台灣新竹市 30053 北區金竹路 100 號 1 樓 IO-Power Technology Co., Ltd 1F., No.100, Jinzhu Rd., North Dist., Hsinchu City 30053, Taiwan
http://www.io-power.com http://www.io-power.com.cn e-mail: io-power@io-power.com.tw Tel:+886 3 5429395 Fax:+886 3 5357297 Cell:+886 933168849 Jacky Cheng

Wireless Remote Power Control System Design and Outdoor DC UPS Power System Calculation

Scheduling: AM04-05, AM:09-10, PM:04-05, PM:11-12

Streetlamp Model DC UPS Wireless Remote Power Control System

1. Power consumption:
   1-1. Outdoor WiFi MIMO AP: APM-102R- 7W/H
   1-2. 12VDC to 48VDC PoE: 1W/H
   1-3. IR IP Cam: 4W/H @ daytime, 8W/H@ nighttime
   1-4. Remote Power Controller:1.5W/H
   1-5. Ethernet Switch:3W/H
2. Streetlamp Model DC UPS Power System
Has 4 hours of backup working time when the Power Company is out of service.
   2-1. Outdoor WiFi MIMO AP(including 48VDC PoE)
   7+1=8W/H, 8W/H*8H=64W
   2-2. IR IP Cam
   ((4+8) / 2)W/H*8H=48W
   2-3. Remote Power Controller
   1.5W/H*24H=36W
   2-4. Ethernet Switch
   3W/H*8H=24W
   2-5. Total power consumption
   64W + 48W + 36W + 24W=172W

Suggestion for Streetlamp Model DC UPS:
IOP-USSP-1216-07B 209WH (16.1Ah @ 12.8V)

Solar Energy DC UPS Wireless Remote Power Control System

1. Power consumption:
   1-1. Outdoor WiFi MIMO AP: APM-102R- 7W/H
   1-2. 12VDC to 48VDC PoE: 1W/H
   1-3. IR IP Cam: 4W/H @ daytime, 8W/H@ nighttime
   1-4. Remote Power Controller:1.5W/H
   1-5. Ethernet Switch:3W/H
2. Solar Energy DC UPS Power System
192 hours(8days) uninteruptible wireless surveillance system. (only working 4 hours/day)
2-1. Outdoor WiFi MIMO AP (including 48VDC PoE)
   7+1=8W/H, 8W/H*4H=32W
   2-2. IR IP Cam
   ((4+8) / 2)W/H*4H=24W
   2-3. Remote Power Controller
   1.5W/H*24H=36W
   2-4. Ethernet Switch
   3W/H*4H=12W
   2-5. Total power consumption
   32W + 24W + 36W +12W=104W
   104W*8days=832W

Suggestion for Solar Energy DC UPS:
IOP-USSS-1265-10B 832WH (65Ah @ 12.8V)
With 130W Solar Panel (832W/6 =138W)

Streetlamp Model DC UPS Wireless Remote Streetlamp Power Control System

1.:Power Consumption
   1-1. Outdoor WiFi MIMO AP: APM-102R- 7W/H
   1-2. 12VDC to 48VDC PoE: 1W/H
   1-3. Remote Power Controller:3W/H
2. Streetlamp Model DC UPS Power System
Has 4 hours of backup working time when the Power Company is out of service.
   2-1. Outdoor WiFi MIMO AP (including 48VDC PoE)
   7+1=8W/H, 8W/H*8H=64W
   2-2. Remote Power Controller
   1.5W/H*24H=36W
   2-3. Total power consumption
   64W + 36W =100W

Suggestion for Streetlamp Model DC UPS:
IOP-USSP-1208-05A 103WH (8.05Ah @ 12.8V)

3. System Instruction:

3-1. Manage the power of Outdoor DC UPS Power System via long-distance wireless AP and the Remote Power Controller.
3-2. Use the Wireless Remote Power Controller to manage all devices to save the outdoor limited power.
3-3. Outdoor DC UPS Power System can be charged by streetlamp power, solar energy, or other green power.
3-4. According to users' definition of system working time, users only need to adjust the power capacity. ◦