

## **DS-3WF0EC-5ACT(B)** **5 Ghz 867 Mbps 500 m Elevator Wireless Bridge**



The dual wireless bridge can be applied in industries, such as wireless video security, railway, transportation, power and other industries, wireless video/data transmission, wireless coverage, carrier wireless backbone network construction, Wi-Fi wireless coverage, rural information construction, and wireless network coverage. The long-distance transmission of the device can guarantee multi-channel HD video transmission.

- Up to 500 m wireless transmission distance
- 867 Mbps 802.11ac wireless bridge
- Built-in 8 dBi 2 x 2 MIMO antenna
- Visualized topology management
- Standard PoE Input & Output
- Plug and Play

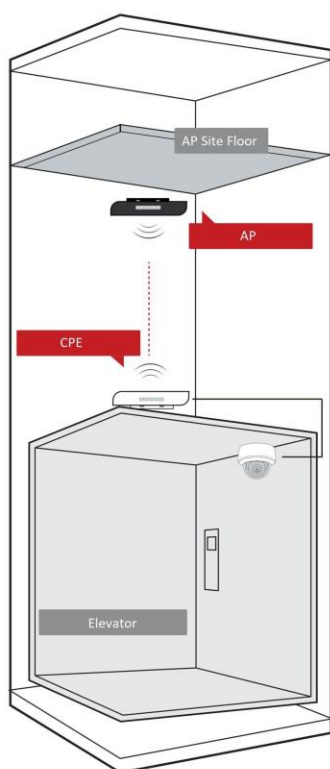
## ▪ Specification

| General                                 |                                                                                                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Dimensions (W × H × D)          | 90.8 mm × 187.87 mm × 57.87 mm (3.58" × 7.4" × 2.28")                                                                                             |
| Package Dimensions (W × H × D)          | 256 mm × 231 mm × 86 mm (10.07" × 9.09" × 3.38")                                                                                                  |
| Net Weight                              | 0.26 kg (0.57 lb) per device                                                                                                                      |
| Gross Weight                            | 1.1 kg (2.43 lb)                                                                                                                                  |
| Packing List                            | Wireless Bridge × 2, PoE Power Supply × 2, AC Cord × 2, Quick Start Guide × 1, Regulatory Compliance and Safety Information × 1, Binding Tape × 4 |
| Packing Method                          | Packing in pairs                                                                                                                                  |
| Working Temperature                     | -30 °C to 65 °C (-22 °F to 149 °F)                                                                                                                |
| Working Humidity                        | 5% to 95% (no condensation)                                                                                                                       |
| Storage Temperature                     | -40 °C to 80 °C (-40 °F to 176 °F)                                                                                                                |
| Storage Humidity                        | 5% to 95% (no condensation)                                                                                                                       |
| Installation Mode                       | Pole Mounting                                                                                                                                     |
| Ingress Protection                      | IP55                                                                                                                                              |
| Power Consumption                       | 2.43 W for typical (1-ch 2MP IPC), Max. 3.4 W                                                                                                     |
| Wireless Parameter                      |                                                                                                                                                   |
| Max. Transmission Rate of Air Interface | ≤ 867 Mbps                                                                                                                                        |
| Wireless Standard                       | IEEE 802.11/a/n/ac                                                                                                                                |
| Working Frequency Band                  | 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5825 MHz                                                                |
| Antenna Gain                            | 8 dBi                                                                                                                                             |
| Antenna Angle                           | (H) Beamwidth [3 dB] 50° (V) Beamwidth [3 dB] 50°                                                                                                 |
| Transmitting Power                      | 22 dBm @11ac MCS0 (Note: Transmitting power may vary with local regulations.)                                                                     |
| Receiving Sensitivity                   | -84 ±2dBm@AC80-MCS0                                                                                                                               |
| Throughput Rate                         | PTP: ,80 Mbps/0.2 KM(AC80),40 Mbps/0.5 KM(AC80)                                                                                                   |
| PoE Power Supply                        |                                                                                                                                                   |
| PoE Port                                | AP: LAN1 802.3af/at PoE IN; CPE: LAN1 passive PoE IN, LAN2 802.3af PoE OUT                                                                        |
| PoE Power Budget                        | 10 W                                                                                                                                              |
| PoE Distance                            | 100 m                                                                                                                                             |
| Hardware Parameter                      |                                                                                                                                                   |
| Network Interface                       | 2 × 10/100 Mbps RJ45 ports                                                                                                                        |
| LED Indicator                           | Power indicator, LAN indicator, Signal intensity indicator                                                                                        |
| Reset                                   | Hardware resetting button                                                                                                                         |
| Power Supply                            | 48V PoE; Check the physical interface image below for more details.                                                                               |
| Software Function                       |                                                                                                                                                   |
| Application Function                    | IFM, IPM, DFS, TPC                                                                                                                                |
| Channel Width                           | 20/40/80 MHz                                                                                                                                      |
| Channel Selection                       | Auto/manual selection                                                                                                                             |
| Network Protocol                        | NTP (network time synchronization), SADP (auto search for IP address), HTTPS (web management)                                                     |
| Security Mode                           | WPA2-PSK                                                                                                                                          |
| Security Mechanism                      | Wireless network name hidden                                                                                                                      |
| Management Method                       | Web, iVMS-4200, HCP                                                                                                                               |
| Upgrade                                 | Web, iVMS-4200, HCP                                                                                                                               |

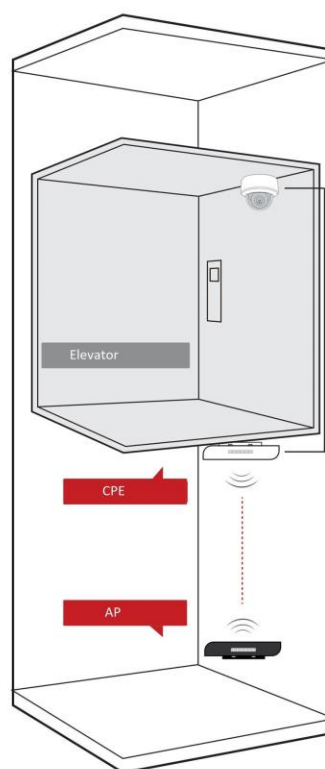
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|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Log      | Syslog,Control center information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| HPP             | <p>Support one-click activation and remote management via Hik-Partner Pro. Functions supported:</p> <ol style="list-style-type: none"> <li>1. Reboot device</li> <li>2. Restore device</li> <li>3. Display the topology information</li> <li>4. Display the connection status between AP and CPEs, including signal intensity, background noise, sending &amp; receiving rate.</li> <li>5. Configure wireless settings, including working mode, SSID, password, channel, channel bandwidth, transmitting power</li> <li>6. Bridge alignment</li> <li>7. Spectrum scanning</li> <li>8. PoE output management</li> </ol> |
| <b>Approval</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EMC             | CE-EMC (EN 55032:2015+A11: 2020, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1: 2019, EN 50130-4:2011+A1: 2014, EN 55035:2017+A11: 2020),IC (ICES-003: Issue 7:2020),RCM (AS/NZS CISPR 32: 2015)                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Safety          | CB (AMD1:2009, AMD2:2013, IEC 62368-1:2014 (Second Edition)), CE-LVD (EN 62368-1:2014+A11: 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Chemistry       | CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Radio           | EN 301 893,EN 300 440,EN 62311,EN 301 489-3,EN 301 489-17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## ▪ Typical Application

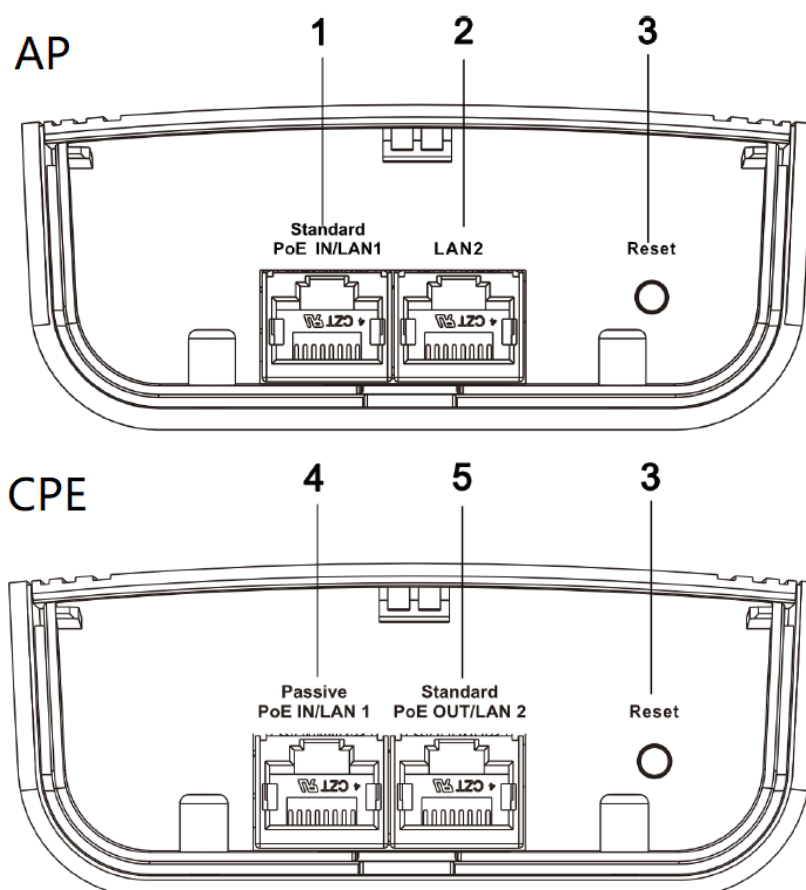
Scene 1



Scene 2



## ▪ Physical Interface

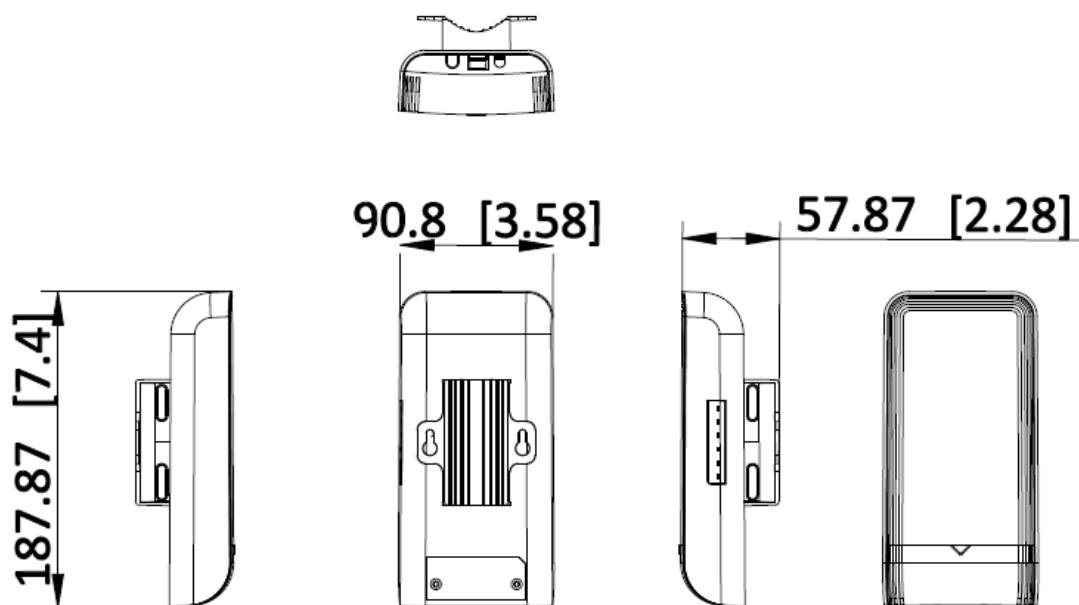


| No. | Interface/Button       | Description                                                                         |
|-----|------------------------|-------------------------------------------------------------------------------------|
| 1   | Standard PoE IN/LAN 1  | The 10/100 Mbps adaptive RJ45 port, also can be used as a standard PoE input port.  |
| 2   | LAN 2                  | The 10/100 Mbps adaptive RJ45 port.                                                 |
| 3   | Reset                  | Long press for 4 seconds to restore to factory settings.                            |
| 4   | Passive PoE IN/LAN 1   | The 10/100 Mbps adaptive RJ45 port, also can be used as a passive PoE input port.   |
| 5   | Standard PoE OUT/LAN 2 | The 10/100 Mbps adaptive RJ45 port, also can be used as a standard PoE output port. |

#### ▪ Available Model

DS-3WF0EC-5ACT(B)  
DS-3WF0EC-5ACT(B)-AP  
DS-3WF0EC-5ACT(B)-ST  
F-WL-B50E-TAC(iFLOW)  
F-WL-B50E-TAC-AP(iFLOW)  
F-WL-B50E-TAC-ST(iFLOW)

#### ▪ Dimension



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