

IP Video Intercom Kit

Outdoor Station, Indoor Monitor, and a PoE Switch



IP Outdoor Station

- 2 MP Wide Angle Camera with Night Vision
- Built-in Microphone with Two-way Talk and Group Call
- Aluminum Panel can be Surface- or Flush-mounted
- IP65 Ingress Protection and IK07 Vandal Resistance
- Power via PoE

IP Indoor Monitor

- 7-inch TFT Screen, 1024 x 600 Resolution
- Integrated 8 GB Micro SD Card
- Setup and Activate up to Six (6) Alarm Inputs
- Wall-mount Installation
- Power via PoE

System Overview

The DHI-KTP01(S) IP Video Intercom kit is a complete solution that includes an outdoor station with wide-angle camera, a color indoor monitor, and accessories to mount and power the components. The kit allows a tenant to view and talk with visitors and remotely unlock doors all from the indoor monitor. The IP outdoor station includes a 2 MP wide angle camera with two-way talk and is suitable for most outdoor applications. The kit is powered by PoE via the included 4-port PoE Ethernet switch, making installation easier, without the need to install additional dedicated power cables.

Technical Specification

DHI-VTO2202F-P IP Outdoor Station

System

| | |
|-------------------|---|
| Main Processor | Embedded Micro Processor |
| Supported Devices | <ul style="list-style-type: none"> • up to 20 VTO stations • up to 10 VTH monitors (devices must be powered via PoE and be on the same network) |

Video

| | |
|-------------------|---|
| Video Compression | H.264 |
| Image Sensor | 1/2.8-in. CMOS Sensor |
| Resolution | 2 MP at 30 fps |
| Lens | 2 mm |
| Angle of View | Horizontal: 160° Vertical: 82° Diagonal: 180° |
| Day/Night | ICR |

Audio

| | |
|----------------------|-------------------------------------|
| Compression | G.711U |
| Input | Built-in Omnidirectional Microphone |
| Output | Built-in Loudspeaker |
| Communication Method | Digital |

Interface

| | |
|-------------------|--|
| Door Control | One (1) Relay Out for Main Lock |
| Alarm Input | Two (2) Channels: • One (1) Channel, Unlock Button • One (1) Channel, Feedback |
| Tamper Switch | One (1) |
| RS485 | One (1) Port |
| Status Indicators | Calling, Communication, Unlocked |
| Network | |
| Ethernet | 10/100 Mbps, Self-adaptive |
| Network Protocol | TCP/IP |
| Video Bit Rate | 256 kbps to 2 Mbps |
| Storage | Extended 64 GB TF Card |

Certifications

Safety

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013

Electromagnetic Compatibility (EMC)

FCC CFR 47 Part 15 subpart B, 2018
EN 55032:2015; EN 610003 2:2014;
EN 61000 3 3:2013; EN 55024:2010/A1:2015;
EN 55035:2017; EN 50130 4:2011/A1:2014

Electrical

| | |
|-------------------|---------------------------|
| Power Input | PoE (IEEE802.3af Class 0) |
| Power Output | 12 VDC, 100 mA |
| Power Consumption | ≤ 12 W |

Construction

| | |
|---------------------|---|
| Housing Material | Aluminum |
| Dimensions | 130.0 mm x 96.0 mm x 28.50 mm (5.12 in. x 3.78 in. x 1.12 in.) |
| Net Weight | 0.35 kg (0.77 lb) |
| Installation Method | Surface- or Flush-mount |

Environmental

| | |
|-----------------------|-------------------------------------|
| Operating Temperature | -30° C to +60° C (-22° F to 140° F) |
| Ingress Protection | IP65 |
| Vandal Resistance | IK07 |

| Technical Specification | |
|-------------------------------------|---|
| DHI-VTH2421FW-P Indoor Monitor | |
| System | |
| Main Processor | High-performance Embedded Processor |
| Operating System | Embedded Linux |
| Display | |
| Viewing Area | 7-in. TFT LCD, Capacitive |
| Resolution | 1024 x 600 |
| Input | Touchscreen Technology, and Mechanical Keys |
| Audio | |
| Mode | Full Digital Two-way Bidirectional Talk |
| Compression | G.711A, G.711U, PCM |
| Input | Built-in Omnidirectional Microphone |
| Output | Built-in 1.5 W Loudspeaker |
| Enhancement | Echo Cancellation, DNR |
| Bit Rate | 16 Kbps |
| Interface | |
| Alarm | Input: Six (6) Channels Output: One (1) Channel |
| Network | |
| Video Compression | H.264 |
| Ethernet | One (1) RJ-45 Connection |
| Network Protocol | TCP/IP |
| Storage | MicroSD Card Slot, up to 32 GB (unit ships with an embedded 8 GB MicroSD Card) |
| Certifications | |
| Safety | EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 |
| Electromagnetic Compatibility (EMC) | FCC CFR 47 Part 15 subpart B EN 55032:2015; EN 610003 2:2014; EN 61000 3 3:2013; EN 55024:2010/A1:2015; EN 55035:2017; EN 50130 4:2011/A1:2014 |
| Electrical | |
| Power Input | PoE (IEEE802.3af Class 0) |
| Power Consumption | Standby: ≤ 4 W Operation: ≤ 6 W |
| Environmental | |
| Operating Temperature | -10° C to +55° C (14° F to +131° F) |
| Operating Humidity | 10% to 95%, Relative |
| Construction | |
| Material | PC + ABS |
| Dimensions | 119.60 mm x 221.50 mm x 21.50 mm (4.71 in. x 8.72 in. x 0.85 in.) |
| Net Weight | 0.35 kg (0.77 lb) |
| Installation | Wall-mount |

| Technical Specification | |
|------------------------------|---|
| DH-PFS3005-4ET-60 PoE Switch | |
| Features | <ul style="list-style-type: none"> Layer Two Commercial Switch PoE Power Management |
| Ethernet Ports | One (1) 10/100 Base-T Four (4) 10/100 Base-T (PoE power supply) |
| PoE Power Consumption | Port 1: ≤ 60 W (Hi-PoE) Ports 2 - 4: ≤ 30 W Total Power Consumption: ≤ 60 W |
| PoE PIN Assignment | 1, 2, 4, 5 (V+), 3, 6, 7, 8 (V-) |
| PoE Protocol | PoE (IEEE802.3af), PoE+ (IEEE802.3at), Hi-PoE |
| PoE Distance | 250.0 m (820.21 ft) |
| Switching Capacity | 1 Gbps |
| Packet Forwarding Rate | 744 Kpps |
| Packet Buffer Memory | 448 Kb |
| MAC Table Size | 1K |
| Flow Control | Enable |
| Power Requirements | 51 VDC, 1.25 A Power Adapter |
| Operating Conditions | -10° C to 50° C (14° F to 122° F) |
| Application Humidity | 5% to 95% |
| Lightning Protection | Common Mode: 2 KV Differential Mode: 1 KV |
| ESD Protection | Air Discharge: 8 KV Contact Discharge: 6 KV |
| Dimensions (W x D x H) | 130.0 mm x 85.0 mm x 26.0 mm (5.12 in. x 3.35 in. x 1.02 in.) |
| Weight | 0.30 kg (0.57 lb) |
| Standards | IEEE802.3, IEEE802.3u, IEEE802.3X |

| Ordering Information | | | Dimensions (mm/in.) | |
|-----------------------|-------------------|------------------------------------|---------------------------|--|
| Type | Part Number | Description | DHI-VTO2202F-P | |
| Intercom Kit | DHI-KTP01 | | | |
| | DHI-VTO2202F-P | 2 MP CMOS Outdoor Station, IP | | |
| | DHI-VTH2421FW-P | 7-in. TFT Color Monitor, IP | | |
| | DH-PFS3005-4ET-60 | 4-port PoE Switch | | |
| Accessories, optional | VTM114 | Flush-mount Box for DHI-VTO2202F-P | | |

Accessories



VTM114
Flush-mount Box

Application

