

IP Video Intercom Kit

Two-wire and IP Outdoor Station, Indoor Monitor, and a PoE Switch





System Overview

The DHI-KTPO1(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-V | TO2202F | .P-S2 IP | Outdoor Statio | n |
|-------|---------|----------|----------------|---|

| System | | | | |
|--|--|--|--|--|
| Main Processor | Embedded Micro Processor | | | |
| Supported Devices | 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.265, H.264 | | | |
| Image Sensor | 1/2.5-in. 2MP CMOS Sensor | | | |
| Resolution | 2MP at 30 fps | | | |
| Lens | 1.9 mm | | | |
| Angle of View | Horizontal: 168.6° Vertical: 87.1° Diagonal: 176.7° | | | |
| Day/Night | Auto (ICR) | | | |
| Audio | | | | |
| Compression | G.711 | | | |
| put Omnidirectional Microphone | | | | |
| Output | Built-in Speaker | | | |
| Bidirectional Talk Supports Two-way Bidirectional Talk | | | | |
| Enhancement | Echo Surpression, Digital Noise Reduction | | | |
| Bit Rate | 16 KHz, 16 Bit | | | |
| | | | | |

IP Outdoor Station

- 2MP Wide Angle Camera with Night Vision
- Compatible with Two-wire or RJ45 Interface
- Built-in Microphone with Two-way Talk and Group Call
- Surface- or Flush-mounted Anodized Aluminum Panel
- IP65 Ingress Protection and IK07 Vandal Resistance

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

Interface

| Door Control | One (1) Electric Lock, One (1) Exit Button, One (1) Lock Control, One (1) Door Status Detection | |
|--|--|--|
| Alarm Output | Two (2) Channels: One (1) Channel, Unlock Button One (1) Channel, Feedback | |
| Inidcator Lights | Incoming Call, Outgoing Call, Lock | |
| Network | | |
| Ethernet | One (1) RJ45 10/100 Mbps | |
| Network Protocol | SIP, P2P, IPv4, UPnP, SNMP, DNS, DDNS, RTSP, RTP, TCP, UDP | |
| Interoperability | CGI | |
| Video Bit Rate | 256 kbps to 4 mbps | |
| Storage | Extended 64 GB TF Card | |
| Certifications | | |
| Safety | UL 62368-1, IEC 62368-1:2014, EN 62368-1:2014 + A11:2017 CAN/CSA C22.2 No. 62368-1-14 | |
| Electromagnetic Compatibility (EMC) | CFR 47 FCC Part 15 subpart B, 2018 EN 55032:2015; EN 61000, 3 2:2014; EN 61000 3 3:2013; EN 55024:2010/A1:2015; EN 55035:2017; EN 50130 4:2011/A1:2014" | |
| Electrical | | |
| Power | PoE (IEEE802.3af, Class 0) DHI-VTNS2003B-2, Dahua Two-wire Switch (Max. Power Supply Distance of 50.0 m [164.04 ft]) | |
| Power Consumption | ≤ 12 W | |
| Construction | | |
| Housing Material | Anodized 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 | 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 | | | |

Intercom Kit | DHI-KTP01(S)

| Ordering Information | | | |
|---------------------------|-------------------|---|--|
| Туре | Part Number | Description | |
| | DHI-KTP01 | | |
| Intercom Kit | DHI-VTO2202F-P-S2 | Two-wire and IP Outdoor Station | |
| | DHI-VTH2421FW-P | 7-in. TFT Color Monitor, IP | |
| | DH-PFS3005-4ET-60 | 4-port PoE Switch | |
| | VTM115 | Surface-mount Box for DHI-VTO2202F-P-S2 | |
| Accessories (Optional) | VTM114 | Flush-mount Box for DHI-VTO2202F-P-S2 | |

Accessories



VTM114 Flush-mount Box (Optional)



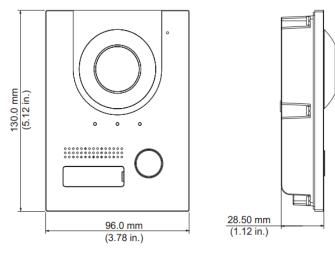
VTM115 Surface-mount Box (Included)

Application

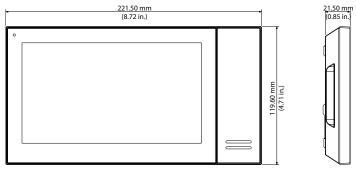


Dimensions (mm/in.)

DHI-VTO2202F-P-S2



DHI-VTH2421FW-P



VTM115 Surface-mount Box for DHI-VTO2202F-P-S2

