

## Product Specifications

### 720p SIP Vandalproof Door Phone with PoE

## HDP-1160PT

Release 1.0

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#### Change History:

Revision	Date	Author	Change List
Version 1.0	2019/08/21	Simon	Initial release

Author	Simon	Editor:	Mark
Reviewed by:	Jonas Yang	Approved by:	Kent

## 1. PRODUCT DESCRIPTION



### Security is Ensured with PLANET Video Door Phone

PLANET HDP-1160PT Vandalproof Video Door Phone is designed for homes and other purposes that need a visitor's identification for the sake of security. With its high-quality audio and video, the identification and voice of the visitor can be clearly seen and heard once the visitor press the call button of the door phone. The HDP-1160PT works like an intercom. As its name implies, it is vandalproof and has a video feature.

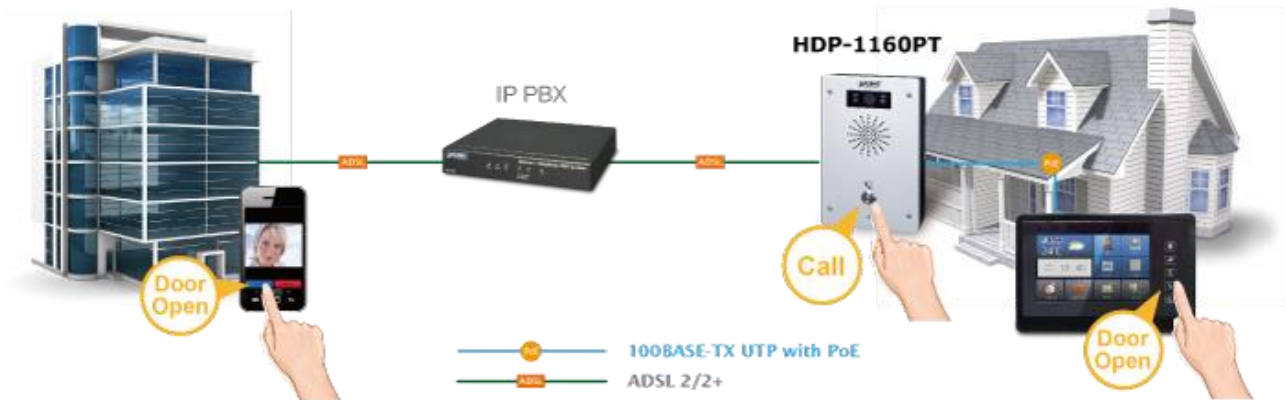
It supports the standard IETF SIP protocol and ONVIF protocol for easy operation and interfaces with the VoIP and IP surveillance world in an instant it connects you with. It delivers excellent picture quality in 720p HD resolutions with 112-degree wide angle. The door phone has infrared night vision that can capture any unusual activity in low light. It also supports HD voice and G.722 codec that relax bandwidth limitation and provide clear communications. It provides the flexibility and control required for high-quality visitor management, property protection, intercom, and message service.



### Easy Communication via Intercom

The two-way intercom function provided by the HDP-1160PT allows you to see the visitors and also communicate with them. The HDP-1160PT includes 2 short-in detect port and 2 short-out control port for connecting with external devices such as door lock or door sensors. When the visitors press the call button at your door, you can press the unlock button on your mobile phone or PLANET VTS-700P 7-inch SIP Indoor

Touch Screen PoE Video Intercom to open the door for your visitors.



### A Door Guard for Extreme Conditions

The HDP-1160PT is an extremely durable IP intercom that can withstand even the most demanding conditions. Its Industrial design with -40 to 70 degrees C operating temperature and resilience to dust, water (IP65) and vandalism (IK10) to ensure maximum security.



### Acoustic Echo Cancellation

Acoustic Echo Cancellation (AEC) technology is adopted in PLANET's HDP1160PT Door Phone and VTS-700P 7-inch SIP Indoor Touch Screen PoE Video Intercom to enable users to minimize the voice/sound signal distortion shown in the diagram below, thus guaranteeing the best-in-class sound quality.



## **Standard Protocol Compliance**

The HDP-1160PT supports IETF Session Initiation Protocol 2.0 (RFC 3261) and ONVIF protocol for easy integration with general voice over IP system and video management system. The IP PBX/NVR device is able to broadly interoperate with equipment provided by VoIP/IP surveillance infrastructure providers, thus enabling them to provide their customers with better multimedia exchange services.

## 2. PRODUCT FEATURES

### ➤ **Benefits**

- 112-degree wide-angle HD camera with infrared light and night vision
- HD voice using wideband G.722 coding produces clearer sound
- Secure communication with TLS & Secure RTP (SRTP)
- Access Control with the electric lock (Built-in 2 short-in/out )
- IP65- and IK10-rated designed for rigorous environment
- Compatible with the Asterisk IP PBX systems or various SIP/ONVIF platforms

### ➤ **Intercom Functions**

- 2 SIP identities/accounts for Intercom
- Intelligent DSS Keys for one-touch speed dial, hotline
- Full-duplex handsfree and auto answer.
- Action URL/Active URI and dynamic multicast function
- Supports customized DSS keys

### ➤ **Hardware**

- HD voice speech quality with built-in 3W speaker and Acoustic Echo Canceller (AEC)
- Three IR LEDs provide clear image in low light condition
- Built-in 2 short-in detect port and 2 short-out control port
- Industrial design with -40 to 70 degrees C operating temperature
- Alarm will go off once the cover is separated from the housing; at the same time the owner is being alerted.

### ➤ **Video and Audio**

- Maximum resolution 1280 x 720 @ 25 fps
- Acoustic Echo Cancellation (AEC) is featured on speaker path
- Adjustable brightness, contrast and volume settings
- HD voice using wideband G.722 coding produces clearer sound

### ➤ **Network and Configuration**

- Standard IETF SIP protocol for VoIP services
- Compatible with the ONVIF for video surveillance
- Compliant with IEEE 802.3af/at PoE interface for flexible deployment
- 802.1x, HTTPS, TR069 and auto-provisioning

➤ **Easy Installation and Management**

- Hands-free intercommunication
- Conveniently unlock the door for visitors without having to go to it
- Have peace of mind from being able to see, hear and speak to your visitors before opening the door

### 3. PRODUCT SPECIFICATIONS

#### 3.1 Component Specifications

Chipset	Broadcom 1190
SDRAM	16MB
Flash	8MB

#### 3.2 Functional Specifications

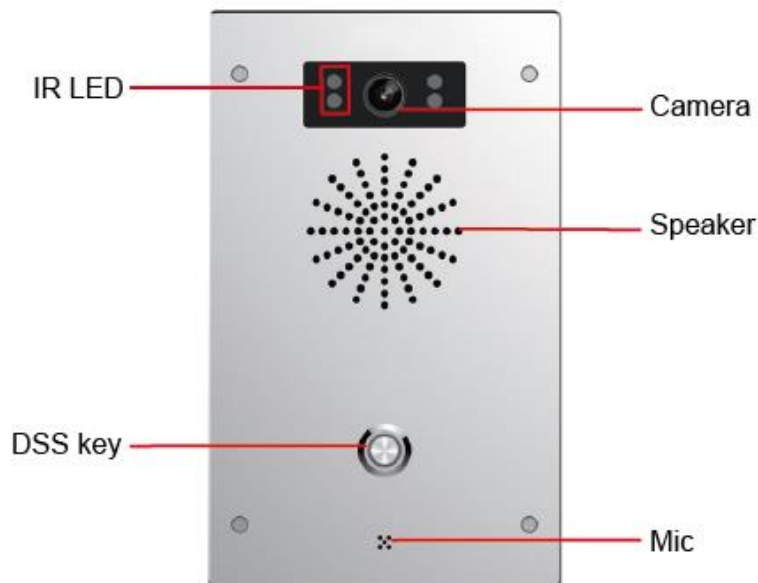
<b>Product</b>	HDP-1160PT
<b>Video</b>	
<b>Image device</b>	2 megapixels with 1/2.7" color CMOS
<b>Video Compression</b>	H.264
<b>Resolution</b>	Main stream: 1280x720@25fps Sub stream: 704x576(D1)@25fps
<b>Viewing angle</b>	112° (H), 84° (V)
<b>Minimum illumination</b>	0.1Lux, support for infrared illumination
<b>IR Illuminations</b>	IR LED x 3, effective up to 5 meters *The IR distance is based on the environment.
<b>Audio</b>	
<b>Audio Streaming</b>	Two-way audio
<b>Microphone</b>	Built-in microphone and speaker input
<b>Narrowband Codec</b>	G.711a/u, G.723.1, G.726-32K, G.729AB Wideband Codec: G.722
<b>DTMF</b>	In-band, Out of Band DTMF (RFC2833) and SIP INFO
<b>Audio Output</b>	Full-duplex Acoustic Echo Canceller (AEC) – Hands-free Mode, 96ms tail-length
<b>Audio Features</b>	Voice Activity Detection (VAD) Comfort Noise Generation (CNG) Background Noise Estimation (BNE) Packet Loss Concealment (PLC) Dynamic Adaptive Litter Buffer up to 300ms
<b>Protocol and Security</b>	
<b>Protocols</b>	IETF SIP (RFC 3261 and companion RFCs), SIP2.0 over UDP/TCP/TLS, RTP/RTCP/SRTP, STUN, DHCP, LLDP, PPPoE, 802.1x, L2TP, OpenVPN, SNTP, FTP/TFTP, HTTP/HTTPS and TR-069
<b>Security</b>	Network access authority authentication: 802.1x Web Filter, Transport Layer Security (TLS) Secure Real-time Transport Protocol (SRTP) NAT traversal: STUN mode HTTP/HTTPS web server, HTTPS certificate manager
<b>Network and Provisioning</b>	
<b>Network Interface</b>	1 x 10/100BASE-Tx RJ45 Ethernet interface, auto-MDIX
<b>IP Configuration</b>	Static/DHCP/PPPoE
<b>VPN</b>	L2TP / OpenVPN
<b>Deployment/Maintenance</b>	Auto-provisioning via FTP/TFTP/HTTP/HTTPS/DHCP OPT66/SIP PnP/TR-069 Web Management Portal

	Web-based Packet Dump Configuration Import and Export Firmware Upgrade Syslog
<b>General</b>	
<b>Keypad</b>	1 DSS button (speed dial button)
<b>Power Requirements</b>	Power over Ethernet (IEEE 802.3af/at), class 2 and DC12V/
<b>Net Weight</b>	1015g
<b>Dimensions (W x D x H)</b>	195 x 120 x 34 mm
<b>Emission</b>	CE, FCC
<b>Connectors</b>	1 10/100Mbps Ethernet, RJ45 1 audio output interface 1 recording output interface 2 short-circuit input interfaces 2 relays: Max. DC30V,1A; AC125V,0.5A 2 indoor magnetic switches 1 Tamperproof protection/ alarm Active switching output: 12V/500mA DC (only 1 relay support)
<b>Installation</b>	Wall-mount type
<b>External Power Supply</b>	12V±15%/1A DC
<b>Environments</b>	
<b>Storage Temperature</b>	-40~70°C
<b>Operating Humidity</b>	10~90%

### 3.3 Physical Specifications

<b>Product Dimensions (W x D x H)</b>	195 x 120 x 34 mm
<b>Net Weight</b>	1015g

#### Front Panel





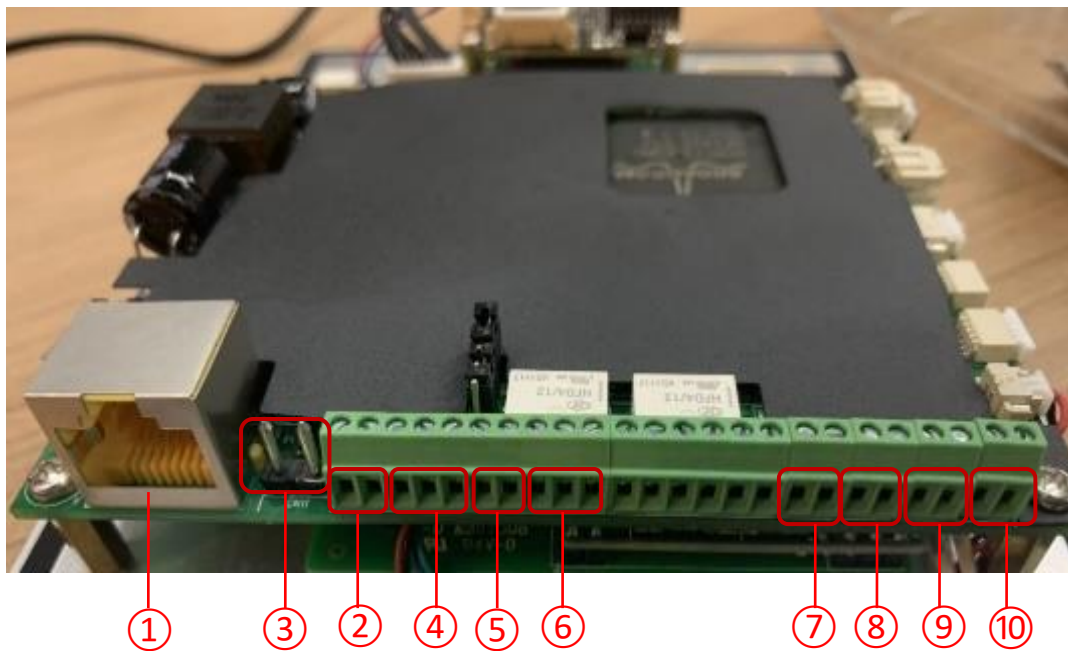
Number	Interface	Description
1	<b>Wall-mount Housing</b>	IP65 and IK10 outdoor housing for rigorous environment
2	<b>CMOS Sensor</b>	Video signal acquisition and transmission
3	<b>IR LED</b>	Emits infrared light to provide light source in dark places
3	<b>Speaker</b>	The door phone has a built-in speaker for convenient communication and alert use
4	<b>DSS Key (Speed dial button)</b>	For speed dial, multicast, intercom, IP broadcast and other functions
5	<b>Mic</b>	The door phone has a built-in microphone hidden in the pinhole located on the front panel

**Function key LED state**

Type	LED	State
<b>DSS Key (Speed dial button)</b>	<b>Normally on</b>	Successfully registered
	<b>Quick flashing</b>	Registration failed/network abnormal
	<b>Slow flashing</b>	In call

**Interface description**

Open the rear case of the device, there is a row of terminal blocks for connecting the power supply, electric lock control, etc. The connection is as follows:



Serial number	Description	Wiring port description (example above)
1	Ethernet interface: Standard RJ45 interface, 10/100M adaptive, it is recommended to use five types of network cable	-
2	Power interface: 12V,1A input	Left: positive Right: grounded
3, 5	Two groups of short-circuit input detection interfaces: For connecting switches, infrared probes, door	Left: IN Right: OUT

	magnets, vibration sensors and other input devices	
4, 6	Two groups of short-circuit output control interface: used to control electric locks, alarms, etc.	Left (NC): Normally Close Contact Center (COM): Common Contact Right (NO): Normally Open Contact
7, 8	Two groups of gate magnetic detection	Left: grounded Right: door magnetic input
9	Recording output interface: Mix the device and the sound of the far-end call. One is the recording signal line, and the other is the ground line. (Please be sure to ground the line, otherwise there will be noise)	Left: grounded Right: recording output
10	External active speaker interface: External active speakers for audio power amplification. One is the audio signal line, and the other is the ground line. (Please be sure to ground the line, otherwise there will be noise)	Left: grounded Right: external active speaker

### Power Connector

The HDP-1160PT requires either IEEE 802.3af/at PoE or DC power from the power connector. The picture shows the two-pin connector comes with system power source of 12V DC, 1A (maximum for the two-pin connector).



<b>1</b>	<b>2</b>
+12V DC	GND

Power Connector

### 3.4 Environmental Specifications

#### Temperature

<b>Operating</b>	-40 ~ 70 degrees C
<b>Storage</b>	-40 ~ 70 degrees C

#### Operating Humidity

<b>Operating</b>	10 ~ 90% (non-condensing)
<b>Storage</b>	10 ~ 90% (non-condensing)

### 3.5 Electrical Specification

<b>Device Input Voltage</b>	PoE Class 2 (IEEE 802.3af/at)
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### 3.6 Regulatory Compliance

CE, FCC,

### 3.7 Reliability

MTBF> 50,000hrs @ 25 degrees C

### 3.8 Basic Packaging

- 1 x HDP-1160PT
- 1 x Quick Installation Guide
- 1 x Mounting Label
- 1 x Screw Kit
- 1 x Connector and Wrench

### 3.9 Package Information

<b>Dimensions (W x D x H)</b>	260 x165 x 62 mm
<b>Gross Weight</b>	1160 g
<b>Carton Dimensions (W x D x H)</b>	348 x 328 x 280 mm
<b>Carton Weight</b>	12.1 kg
<b>Carton Unit</b>	10 pcs

## ***APPENDIX A: Default Setting***

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<b>Default IP Address</b>	172.16.0.1
<b>Default Web Port</b>	80
<b>Default Login User Name</b>	admin
<b>Default Login Password</b>	123
<b>Search Tool</b>	Planet Door Phone Finder
<b>Displaying IP Address</b>	Hold the DSS key for 10 seconds to report IP address by voice