

## Product Specifications

### High Definition Color PoE IP Phone

**VIP-1120PT**

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	8/4/2016	Jonas Yang	Initial release

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

## 1. PRODUCT DESCRIPTION

### **Intuitive Design Brings Quality Communication**

PLANET VIP-1120PT is a two-line SIP desktop phone with color display that brings lifelike richness and voice quality to phone calls. The VIP-1120PT is a reliable communication device as it features ease of use, versatility, high-quality design and superb audio performance. Besides, its full duplex speakerphone system with HD voice can definitely make communication between two or more business parties crystal clear with no interference noise in the background as it supports the G.722 wideband codec.

### **IP Phone with Color Display**

As the VIP-1120PT is an IP phone, it allows you to make calls from any location easily as long as it is online. Its 2.4-inch TFT color display with a resolution of 320 x 240 pixels offers a clear depiction of caller's information. It complies with IEEE 802.3af PoE interface for flexible deployment and supports superior audio quality delivered by the advanced speaker and microphone system, and the digital signal processor (DSP).

### **Compliant with SIP 2.0**

SIP phones continue to gain popularity among businesses as the preferred protocol for enhancing communication across IP networks. The VIP-1120PT supports Session Initiation Protocol 2.0 (RFC 3261) for easy integration with general voice over IP system. The VIP-1120PT is able to broadly interoperate with equipment provided by VoIP infrastructure providers, thus enabling them to provide their customers with better voice over IP services.

### **Affordable for All Businesses**

The VIP-1120PT is definitely affordable for all business establishments who want flexible deployment options and expansion. It can effortlessly deliver secure toll voice quality by utilizing cutting-edge 802.1p QoS (Quality of Service) and IP ToS technology.

## 2. PRODUCT FEATURES

### ➤ **Highlights**

- 2.4-inch color LCD monitor
- 2-line key with color LED
- 2 SIP identities
- Wideband G.722 HD audio
- Power over Ethernet (PoE) compliant
- QoS, TR069, auto-provisioning and multi-language

### ➤ **Advantageous Applications**

- Supports SIP 2.0 (RFC3261)
- Inband, SIP info, RFC 2833 DTMF relay
- Soft keys and function keys programmable
- Echo cancellation: Supports G.168, and a maximum filter length of 96ms in hands-free mode
- Supports voice gain setting, voice activity detection (VAD) and comfort noise generation (CNG)
- Full duplex hands-free speakerphone
- Hands-free headset ringing choice
- Voice codec setting for each SIP line

### ➤ **SIP Applications**

- Call forward and transfer (blind/attended)
- Call holding and waiting
- 3-way conferencing
- Paging and intercom
- Call park, call pickup and join call
- Redial and click to dial
- Secondary dialing automatically
- Incoming calls, outgoing calls and missing calls (Each supports 300 records)
- SMS and speed dial
- Phonebook up to 500 records

### ➤ **Call Control Features**

- Flexible dial map, hotline and empty calling no. for rejected service
- Black list for rejected authenticated calls
- White list and call limit
- Do not disturb (DND)
- Caller ID display

- Dial without registration

➤ **Network Features**

- PPPoE/DHCP client
- 802.1 VLAN (voice VLAN/data VLAN)
- VPN (L2TP) and openVPN
- Quality of Service

➤ **Maintenance and Management**

- Integrated web server provides web-based administration and configuration
- Telephone keypad configuration via display menu/navigation
- Automated provisioning and upgrade via HTTPS, HTTP, TFTP
- User authentication for configuration pages
- SNTP time synchronization
- TR069

### 3. SPECIFICATIONS

#### 3.1. Main Components

CPU/DSP	Broadcom
SDRAM	8M
Flash	16M

#### 3.2. Functional Specifications

<b>Product</b>	VIP-1120PT
<b>Hardware</b>	
<b>Lines (Direct Numbers)</b>	2 SIP Lines
<b>Display</b>	LCD x 1: 2.4-inch (320 x 240) color LCD
<b>Feature Keys</b>	Keypad: 32 keys, including <ul style="list-style-type: none"> <li>● 4 soft-keys</li> <li>● 12 standard phone digit keys</li> <li>● 5 navigation keys</li> <li>● 2-line key with tri-color LED</li> <li>● 5 function keys</li> <li>● 3 volume control keys -- Up, Down, Mute (microphone)</li> <li>● 1 hands-free feature</li> </ul>
<b>Network Interfaces</b>	RJ45 Ethernet jacket x 2: <ul style="list-style-type: none"> <li>● Network x 1 (802.3af PoE Class 1 enabled)</li> <li>● PC x 1 (Bridged Network)</li> </ul>
<b>Connectors</b>	HD hands-free speaker (0 ~ 7KHz) x 1 HD hands-free microphone (0 ~ 7KHz) x 1 HD handset (RJ9) x 1
<b>Power Requirements</b>	IEEE 802.3af 5V 600mA
<b>Weight</b>	620g
<b>Dimensions (W x D x H)</b>	196 x 164 x 60 mm
<b>Protocols and Standard</b>	
<b>Protocols</b>	SIP2.0 over UDP/TCP/TLS RTP/RTCP/SRTP STUN DHCP PPPoE 802.1x L2TP (basic unencryption) OpenVPN SNTP FTP/TFTP HTTP/HTTPS TR069
<b>Request for Comments (RFCs)</b>	354, 1321, 1350, 1769, 1889, 1890, 2131, 2132, 2616, 2617, 2661, 2833, 2976, 3261, 3262, 3263, 3264, 3265, 3268, 3311, 3489,

	3711, 4346, 4566, 5630, 5865
<b>Networking</b>	
<b>Networking</b>	Physical: 10/100Mbps Ethernet, dual bridged port for PC bypass IP Configuration: Static, DHCP, PPPoE Network Access Control: 802.1x VPN: L2TP (basic unencryption), OpenVPN VLAN QoS
<b>Deployment &amp; Maintenance</b>	Auto-provisioning via FTP/TFTP/HTTP/HTTPS/DHCP/OPT66/SIP PNP/TR069 Web management portal Web-based packet dump Configuration backup/restore Auto/Manual online software upgrade Syslog
<b>Features</b>	
<b>Call Features</b>	Call out, answer, reject Mute/unmute (microphone) Call hold, resume Call waiting Intercom Caller ID display Call forwarding (always/busy/no answer) Call transfer (attended/unattended) Call parking, pick-up (depending on server) Redial Do-not-disturb (per line/per phone) Auto-answering (per line) Voice message (on server) Local 3-way conferencing Hot line
<b>Phone Features</b>	Phone accessibility control by user PIN Intelligent phonebook (up to 500 entries in total) Remote phonebook (XML/LDAP) Intelligent contact number matching/filtering Call log (300 entries in total, in/out/missed) Voice message waiting indication (VMWI) Network time synchronization Multi-language support in screen and web UI: English, Chinese (Traditional/Simplified), Japanese, Russian, Italian, Turkish, German, Dutch, Spanish, Hebrew, Polish, French, etc.
<b>Audio Features</b>	HD voice microphone/speaker (handset/hands-free, 0~7KHz frequency response) Wideband ADC/DAC 16KHz sampling Narrowband codec: G.711a/u, G.723.1, G.726-32K, G.729AB Wideband codec: G.722 Full-duplex acoustic echo canceller (AEC) – a tail length of 96ms in hands-free mode Voice activity detection (VAD), comfort noise generation (CNG), background noise estimation (BNE), noise reduction (NR) Packet loss concealment (PLC) Dynamic adaptive jitter buffer up to 300ms DTMF: In-band, out-of-band – DTMF-relay (RFC2833), SIP info

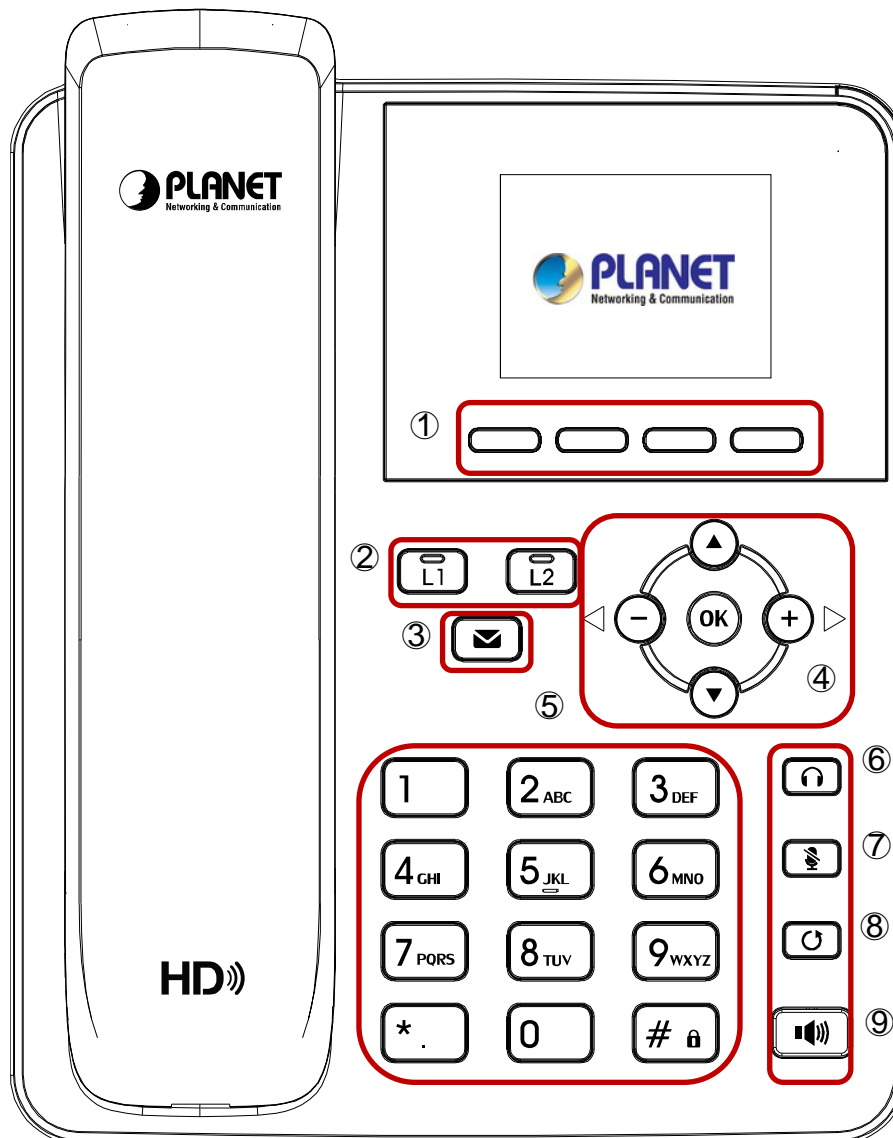
Environment	
Operating Temperature	0 ~ 40 degrees C
Operating Humidity	10 ~ 65% (non-condensing)
Emission	CE, FCC, RoHS

### 3.3. Physical Specifications

#### ➤ Dimensions

Dimensions (W x D x H)	196 x 164 x 60 mm
Net weight	620g

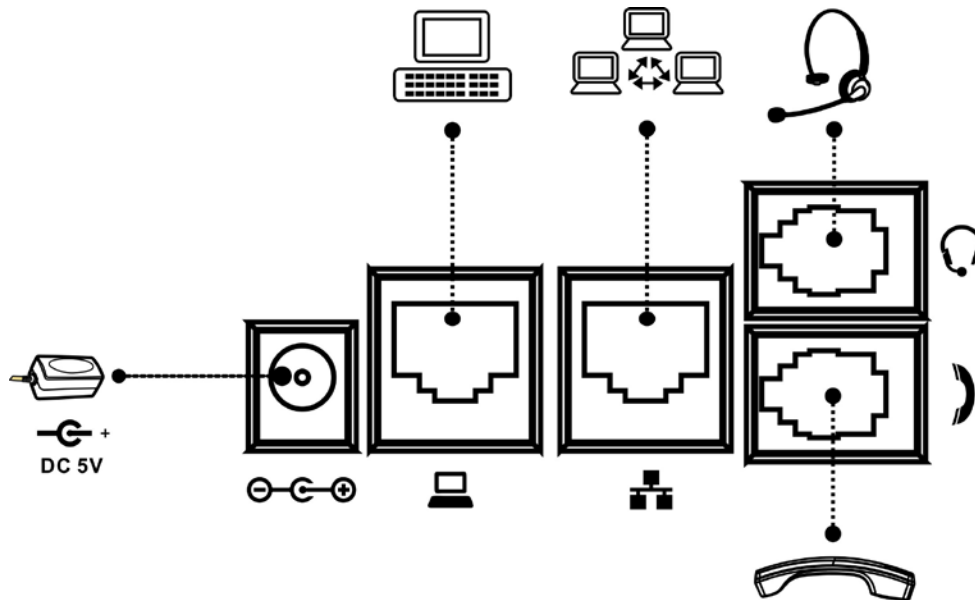
#### ➤ Keypad, LED and function key definitions



➤ **Keypad Descriptions**

Interface		Description
1	Soft-menu Buttons	These four buttons provide different functions corresponding to the soft-menu displayed on the screen
2	Line 1~2 Key	Switch to different SIP lines
3	MWI Key	Press this button to enter the voicemail service
4	Navigation Keys	User can press the up/down navigation key to change line focus on the talking screen or move the cursor to a listed item on the screen. In some configuration or text editor screen, user can press the left/right navigation key to switch option or move cursor to the left/right.
5	Numeric Keypad	The 12 standard telephone keys provide the same function as standard telephones, but some keys also provide special functions by long pressing the keys. Key # -- Long press to lock the phone. (Default PIN is 123)
6	Headset Key	Use the headset to call out or call in.
7	Microphone Mute	User can mute the microphone with this button in talking mode.
8	Redial	By pressing the 'Redial' button, user can redial the last dialed number
9	Hands-free Speaker	By pressing this button once, user can turn on the audio channel of hands-free speaker

➤ **Rear View and Panel Descriptions**



➤ **Interface Descriptions**

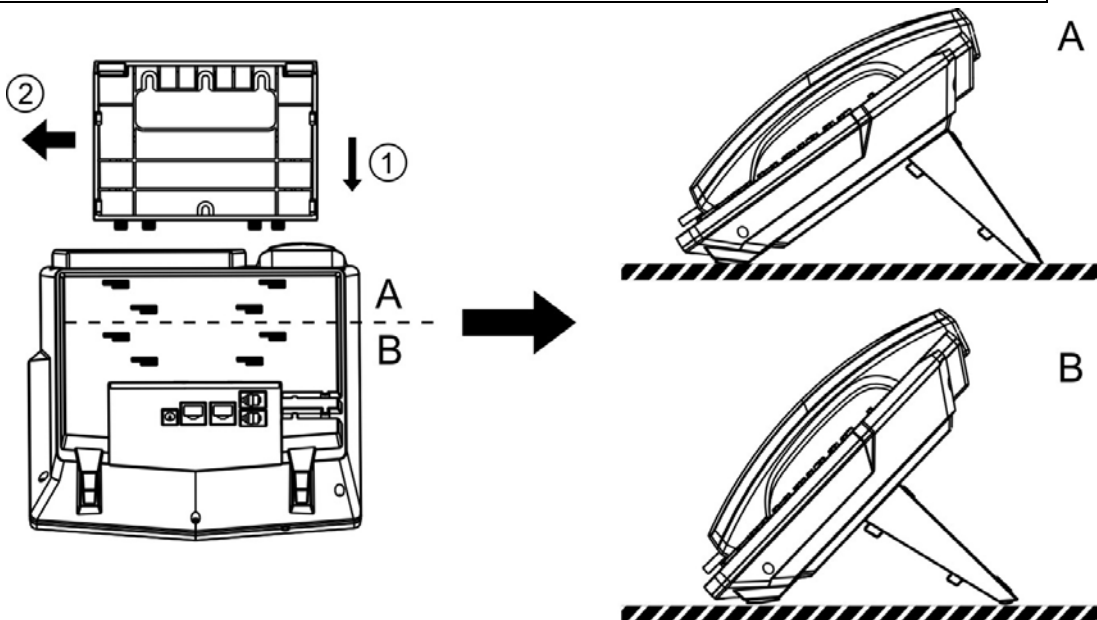
Interface		Description
1	Headset	Connected to the headset interface
2	Headphone	Connected to the headphone interface



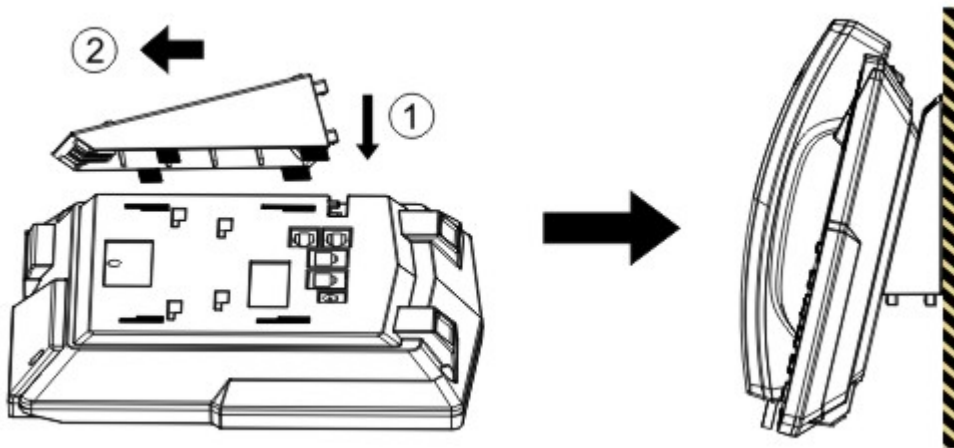
Interface		Description
3	<b>Internet (WAN)</b>	Use one end of a straight Cat5 cable to directly connect to a switch/hub and the other end to the RJ45 connector for internet access. The WAN interface also can be connected with 802.3af PoE switch or converter for power supply.
4	<b>PC (LAN)</b>	Use a Cat5 cable to directly connect between the RJ45 connector and a PC to maintain the existing network structure.
5	<b>DC 5V</b>	Power port (This unit does not include the 5V/600mA power adapter.)

➤ **Desktop and Wall-mount Installation**

<b>Desktop Installation</b>	The device supports two installation modes, desktop and wall-mount. To set up the phone on the desktop, please follow the instructions as shown in the diagrams below.
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<b>Wall-mount Installation</b>	To mount the device on the wall, please follow the instructions shown in the pictures below.
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### 3.4. Environmental Specifications

#### Operating

Temperature:	0~40°C
Relative Humidity:	10~65% (non-condensing)

#### Storage

Temperature:	-25~85°C
Relative Humidity:	10~90% (non-condensing)

### 3.5. Electrical Specifications

Input Voltage:	5V DC, 0.6 A
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### 3.6. Regulatory Compliance

FCC, CE

### 3.7. Reliability

MTBF >87,600hrs @25 degrees C MIL-STD-781C

### 3.8. Basic Packaging

- SIP IP Phone Unit x 1
- Quick Installation Guide x 1
- RJ45 Cable x 1
- Stand x 1

### 3.9. Package Information

<b>Dimensions (W x D x H)</b>	230 x 190 x 70 mm
<b>Weight</b>	900g (gross weight)
<b>Carton Dimensions (W x D x H)</b>	425 x 365 x 270 mm
<b>Carton Weight</b>	10kg (gross weight)
<b>Carton Unit</b>	10pcs

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

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<b>Default WAN IP</b>	172.16.0.1
<b>Default Subnet Mask</b>	255.255.0.0
<b>Default Gateway</b>	172.16.0.254
<b>Default Login User Name</b>	admin
<b>Default Login Password</b>	123
<b>LCD Advanced Settings Password</b>	123