

SIP IP Phone

VIP-155PT User's manual

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CE mark Warning

The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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Revision

User's Manual for PLANET SIP IP Phone: Model: VIP-155PT

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1

Chapter 1 Introduction

Overview

Meeting the next-generation Internet telephony service demands, PLANET Technology provides feature-rich, toll-quality Internet telephony service solutions. The 802.3af Power over Ethernet (PoE) IP Phone - VIP-155PT brings cost-effective solution for voice communications and interoperates VoIP hardware and systems from major third party vendors with traditions of PLANET VoIP family. As a feature-rich IP Phone, the VIP-155PT fulfills your needs. The VIP-155PT is SIP 2.0 (RFC3261) compliant with SIP digest authentication supports. And the VIP-155PT is the cost-effective SIP PoE IP Phone.

The VIP-155PT feature high-quality speakerphone technology; also include an easy-to-use speaker on/off button and call hold/transfer buttons for various voice services. These features go beyond the conventional voice systems nowadays, and the PoE IP phones are cost-effective solution for Internet Telephony Service Provider (ITSPs) communications and interoperate VoIP hardware and systems form othe major third party vendors with the traditions of PLANET VoIP family.

As feature-rich IP Phones, the VIP-155PT fulfill your needs. They are simple to use, and have additional features such as built-in PPPoE/DHCP clients, password-protected machine management, large LCD menu display, hands-free speakerphone, last number redial, incoming message indicator, and user-intuitive web administration system.

The VIP-155PT are self-contained, service-integrated IP phones — offers intelligent phone features, and powerful voice processing power. The VIP-155PT can effortlessly deliver toll voice quality equivalent to the regular PSTN connections utilizing cutting-edge Quality of Service, echo cancellation, comfort noise generation and voice compensation technology. Meanwhile, the dual Ethernet interfaces on the VIP-155PT allow users to install in an existing network location without interfering with desktop PC network connections. The new VIP-155PT deliver more convenience, efficiency, innovation and benefits of VoIP in your dailylife.

VIP-155PT Functions

• Simple Installation and administration

Configuration of the VIP-155PT can be performed in minutes via the keypad, or web interfaces. Using the built-in LCD display, the VIP-155PT offers user-friendly configuration guidelines, machine operation status, call status displays, and incoming call identification.

• Feature-rich keypad IP Phone

The VIP-155PT integrates a high-quality speakerphone with the Call Hold, Forward and Transfer functions and also provides advanced telephone features, such as 9 speed-dial keys, last number redial, incoming call history, Auto Answer indicator in a much more convenient and functional manner than traditional telephone sets.

• Dynamic IP address assignment, and voice communication

The VIP-155PT can act as a PPPoE/DHCP client, automatically obtaining an IP address for Internet access.

• Various field applications compliant

The VIP-155PT is capable of handling both peer-to-peer and SIP proxy registration, authentication to interact with major SIP gateway/IP Phone in the market. The VIP-155PT offers the most flexibility and interoperability with PLANET and 3rd party VoIP vendors, allowing the deployment of both simple and complex VoIP networks such as ITSP, PC-to-Phone/Phone-to-PC or enterprise VoIP environments.

• Standards compliant

The VIP-155PT complies with SIP 2.0 (RFC3261), interoperates with 3rd party SIP voice gateways/terminal/software as well as other PLANET VoIP products. Supported Voice codecs and VoIP technologies are: G.723, G.729ab, G.711u-law/a-law; Voice Activity Detection (VAD), and the Confort Noise Generation (CNG).

NAT Optimization, Firewall policy packet filtering and QoS mechanism

The VIP-155PT provides user definable policy-based firewall protection, and a packet filtering mechanism to prevent business or residential network from malicious attacks or intrusion. The firewall policy offers VoIP administrators access control privilege choices to apply to LAN users to restrict Internet access or prevent improper use.

Package Content

The contents of your product should contain the following items: IP Phone Power adapter Quick Installation Guide User's Manual CD RJ-45 cable x 1

Physical Details

The following figure illustrates the front/rear panel of VIP-155PT.

Front View and Keypad function



Front Panel of VIP-155PT

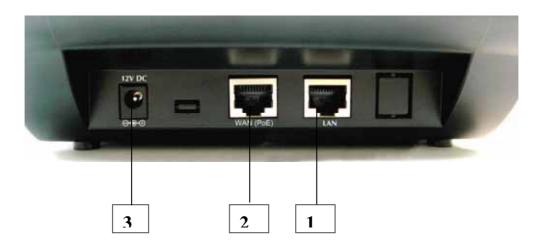
Keypad Description

1	LCD Display	Menu and all status shall be displayed for users.	
0	Speed Dial	To make a speed dial call by pressing the speed dial key No.1	
2	No.1~No.9	~ No.9.	
3	Sysinfo	Circularly show phone number, wan ip, registration status, server ip address, gateway and mask info.	
4	Out call	Show the outgoing calls history.	
5	FWD	To transfer an active call (incoming call answered or outgoing call accepted) to another IP phone.	
6	Send	After complete dial digits, press this button to make call.	

7	Redial	Press to dial the last dialed number when the IP Phone is off-hooked.		
8	PWR	The green light goes on when power on.		
9	Message	The green light goes on-off when there is an incoming call. The light goes constant on when there have voice message (Proxy Mode.)		
10	Handfree	To switch between the usage of the handset and the speake devices.		
11	Vol+	To increase the volume of voice when at off-hooked state. To page up menu when at configuration mode.		
12	Mute	Press to mute sounds when at talk mode.		
13	Menu/OK	To bring out the menu selection while IP Phone is in idle state To be used as confirm configuration or enter sub-menu.		
14	Modify	Press to modify the configuration.		
15	Exit	To escape to an upper layer menu selection.		
16	Up	To increase the volume of voice when at off-hooked state. To page up menu when at configuration mode.		
17	Down	To decrease the volume of voice when at off-hooked state. To page down menu when at configuration mode.		
18	In call	Show the incoming calls history.		
19	Pbook	Enter the phone book selection.		
20	Record	Enter the Voice Record selection.		
21	Hold	To hold the conversation.		
22	Vol-	To decrease the volume of voice when at off-hooked state. To page down menu when at configuration mode.		
23	Del	Delete digits when at Calling and Configuration modes.		

Rear View

(i) Hint



Rear Panel of VIP-155PT

1 LAN		RJ-45 connector, to maintain the existing network structure, connected directly to the PC through straight CAT-5 cable
2 WAN (PoE)		RJ-45 connector, for Internet access, connected directly to Switch/Hub through straight CAT-5 cable.
		Please connect the WAN interface when using IEEE802.3af PoE power supply (PT model only)
3	12V DC	12V DC Power input outlet

• The Power over Ethernet support on PLANET VIP-155PT complies with the 802.3af standards. Using non-802.3af compliant PoE device will burn up the VIP-155PT permanently.

• Either one power-source is allowed. Please make sure only one power source is applied to the VIP-155PT.

2

Chapter 2

Preparations & Installation

Physical Installation Requirement

This chapter illustrates basic installation of VIP-155PT

- Network cables. Use standard 10/100BaseT network (UTP) cables with RJ45 connectors.
- TCP/IP protocol must be installed on all PCs.

For Internet Access, an Internet Access account with an ISP, and either of a DSL or Cable modem (for WAN port usage)

Administration Interface

PLANET VIP-155PT provides GUI (Web based, Graphical User Interface) for machine management and administration.

Web configuration access:

To start VIP-155PT web configuration, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Default LAN interface IP address of VIP-155PT is **192.168.0.1**. You may now open your web browser, and insert **192.168.0.1** in the address bar of your web browser to logon VIP-155PT web configuration page.

VIP-155PT will prompt for logon username/password, please enter: *rootn / null (no password)* to continue machine administration.

SIP P	none Web Management	
	Username:	
	Password:	
	Logon	



Please locate your PC in the same network segment (192.168.0.x) of VIP-155PT. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.

LAN/WAN Interface quick configurations

Nature of PLANET VIP-155PT is an IP Sharing (NAT) device, it comes with two default IP addresses, and default LAN side IP address is "**192.168.0.1**", default WAN side IP address is "**172.16.0.1**". You may use any PC to connect to the LAN port of VIP-155PT to start machine administration.



In general cases, the LAN IP address is the default gateway of LAN side workstations for Internet access, and the WAN IP of VIP-155PT are the IP address for remote calling party to connect with.

LAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (default: **192.168.0.1**) of VIP in the address bar. After logging on machine with username/password (default: **root** / **null**), browse to "**Network**" --> "**LAN Config**" configuration menu:

LAN Configuration

etmask 255.255.255.0
Z NAT

Parameter Description

Bridge Mode	Enable this option to switch to bridge mode. VIP-155PT won't assign IP for its LAN port in bridge mode and its LAN and WAN port will be in the same network.	
ID address	LAN IP address of VIP-155PT	
IP address	Default: 192.168.0.1	
Ordenat March	LAN IP address of VIP-155PT	
Subnet Mask	Default: 255.255.255.0	
DHCP Service	Enable DHCP service in LAN port	
NAT	Enable NAT function. If Bridge mode is enable, this	
	function will be disabled.	

(i) Hint It is suggested to keep the DHCP server related parameters in default state to keep machine in best performance.

After confirming the modification you've done, Please click on the **Apply** button to macke the changes effective, browse to "**Config Manager**" --> "**Save Config**" configuration menu and click "**Save**" button to save configuration.

Then browse to "**System Manage**" --> "**Reboot**" configuration menu and click "**Reboot**" button to save configuration.

WAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (default: **172.16.0.1**) of VIP in the adddress bar. After logging on machine with username/password (default: **root** / **null**), browse to "**Network**" --> "**WAN Config**" configuration menu, you will see the configuration screen below:

WAN Configuration Current Gateway Active IP Current Netmask MAC Address 192.168.9.10 255.255.255.0 00:09:45:52:9e:30 210.66.155.94 Valid MAC Mac Authenticating Code Static O DHCP O PPPOE IP Address 172.16.0.1 Netmask 255.255.255.0 Static Gateway 172.16.0.254 **DNS Domain** Primary DNS 202.96.134.133 Alternate DNS 202.96.128.68 PPPOE Server ANY Username user123 Password *******

Apply

Connection Type	Data required.	
Static IP	The ISP will assign IP Address, and related information.	
DHCP	Get WAN IP Address automatically; it is no need to	
	configure the DHCP settings.	
PPPoE	The ISP will assign PPPoE username / password for	
	Internet access,	

(i) Hint

Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully. If Internet connection cannot be established, please check the physical connection or contact the ISP service staff

for support information.

3

Chapter 3

Web Configurations

Configuring and monitoring your VIP-155PT from web browser

The VIP-155PT integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via standard, web browser, you can configure and check machine status from anywhere around the world.

Overview on the web interface of VIP-155PT

With web graphical user interface, you may have:

- More comprehensive setting feels than traditional command line interface.
- Provides user input data fields, check boxes, and for changing machine configuration settings
- Displays machine running configuration

To start VIP-155PT web configuration, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Manipulation of VIP-155PT via web browser

Log on VIP-155PT via web browser

After TCP/IP configurations on your PC, you may now open your web browser, and input *http://192.168.0.1* to logon VoIP gateway web configuration page.

Browse any configuration menu, VIP-155PT will prompt for logon username/password, there are two level accounts for manage:

Account Name	Password	Level Description
root	null (no password)	Administrator user, can mansge all of
1001		configuration.
quest	guest	General user, just can manage part of
guest		configuration.

SIP Phone Configuration Menu	IP Phone
Current State	
Network	
VolP	
Advance	
Dial-peer	
Config Manage	
Update	
System Manage	
	VIP-155PT main page



Current State

		IP Ph	one	
				Running Status
etwork	Connect Mode	Static	MAC Address	00:09:45:52:9e:30
WAN	IP Address	192.168.1.50	Gateway	192.168.1.50
LAN	IP Address	192.168.10.1	DHCP Server	ON
OIP	Register Server	196.192.64.119	Proxy Server	196.192.64.119
SIP	Register	ON	State	Unregistered
	Public Outbound	OFF	SIP Stun	OFF
hone Number Public SIP	2219	20		
Private SIP	0			

Current state information			
Network	Shows the WAN and LAN port connecting state and		
Network	current settings		
VOIP	Part show the working state of VoIP, you can see whether		
VOIP	IP Phone has registered the public sip server		
Phone Number	Shows the public sip and private sip phone numbers		

WAN Config:

Active I	Р	Curr	ent Netmask	MAC Address	Current Gateway	
192.168.1	168.1.50 255.255.255.0		5.255.255.0	00:09:45:52:9e:30	192.168.1.50	
Mac Aut	henticatii	ng Code			Valid MAC	
Static O	DHCP	O PPPOE				
	IP Add	ress	192.168.1.50	Netmask	255.255.255.0	
Static	Gatev	way	192.168.1.50	DNS Domain		
	Primary	DNS	192.168.1.1	Alternate DNS	202.96.128.68	
PPPOE Serve	AN'	(
Username	use	er123				
Password						

Three methods are available for Internet Access

Static IP	
	If you are a leased line user with a fixed IP address, fill out
Fixed IP User	the following items with the information provided by your
	ISP.
IP Address	check with your ISP provider
Netmask	check with your ISP provider
Default Gateway	check with your ISP provider

DHCP IP		
	If there is DHCP server in your local network, VIP-155PT	
Dynmaic IP User	will automatically obtain WAN port network information	
	from your DHCP server.	

PPPoE	
	VIP-155PT will automatically obtain WAN port network
PPPoE User	information from your ITSP if PPPoE setting and the setup
	are correct.
PPPoE Server	Enter User Name provided by your ISP
Uasename	Enter Password provided by your ISP
Password	Enter Password to confirm again

LAN Config

LAN Configuration
Netmask 255.255.0.0
e,lp or Netmask,the device will auto save and reboot !
(Apply)

Field	Description
Bridge Mode	Enable this option to switch to bridge mode. IP phone won't assign IP for its LAN port in bridge mode and its LAN and WAN port will be in the same network
	(This setting won't take effect unless you save the config and reboot the device)
	LAN IP address of VIP-155PT
IP address	Default: 192.168.0.1
	LAN IP address of VIP-155PT
Subnet Mask	Default: 255.255.255.0
DHCP Service	Enable DHCP service in LAN port
NAT	Enable NAT

SIP Config

SIP[Unregistered] Configuration

Register Server Addr	196.192.64.119		Proxy Server Addr		
Register Server Port	5060		Proxy Server Port		
Register Username	2219		Proxy Username		
Register Password	••••		Proxy Password		
Domain Realm	-		Local SIP Port	5060	
Phone Number	2219		Register Expire Time	60	seconds
Detect Interval Time	60 seconds		User Agent	Voip Phone 1.0	
DTMF Mode	DTMF_RELAY	~	Server Type	common	~
RFC Protocol Edition RFC3261			Auto Detect Server		
Enable Register			Enable Pub Outbound Proxy		

Setting page of public SIP server.

Field	Description
Register Server Addr	Register address of public SIP server
Register Server Port	Register port of public SIP server
Register Username	Username of your SIP account (Always the same as the phone number)
Register Password	Password of your SIP account
	IP address of proxy SIP server (SIP provider always use the
Proxy Server Addr	same IP for register server and proxy server, in this case you
	don't need to configure the proxy server information)
Proxy Server Port	Signal port of SIP proxy
Proxy Username	Proxy server username
Proxy Password	Proxy server password
Domain Realm	SIP domain, enter the sip domain if any, otherwise IP PHONE will
	use the proxy server address as sip domain
Local SIP port	Local SIP register port, default 5060
Phone Number	Phone number of your SIP account
	Register expire time, default is 600 seconds. IP PHONE will auto
Register Expire Time	configure this expire time to the server recommended setting if it
	is different from the SIP server
	Co-work with the Auto Detect Server, if Auto Detect Server is
Detect Interval Time	enable, IP PHONE will periodically detect if the SIP server is
	available according this setting
User Agent	It will show IP Phone's information on Proxy Server

	DTMF signal sending mode: support RFC2833, DTMF_RELAY	
DTMF Mode	(inband audio) and SIP info	
Server Type	It could support different SIP Proxy providers	
	Current IP PHONE SIP version. Set to RFC 2543 if the gate need	
RFC Protocol Edition	to communicate to devices (such as CISCO5300) using the SIP	
	1.0. Default is RFC 3261	
	Co-work with Server Auto Swap and Detect Interval Time. Enable	
	this option, IP PHONE will periodically detect whether the public	
Auto Detect server	SIP server is available, if the server is unavailable, the IP PHONE	
Auto Detect Server	will switch to the back-up SIP sever, and continue detecting the	
	public sip server. IP PHONE will switch back to the primary SIP	
	server if the server is available again	
Frable Deviator	Enable/Disable SIP register. IP PHONE won't sent register info to	
Enable Register	SIP server if disable register	
Enable Pub Outbound	Enable/Disable Outbound Proxy	
Proxy		

DHCP Server

							HCP Service
DNS R	elay						
				Apply			
Name	Start	IP	End IP	Lease Time	Netmask	Gateway	DNS
lan1	192.168.10	.2 1	92.168.10.50	1440	255.255.255.0	192.168.10.1	192.168.10.1
Lease Tab	le Name			Lease Time		(minute)	
Start IP				End IP			
Netmask				Gateway			Add
DNS							
Lease Tab	le Name	lan1	~				Delete

DHCP server manage page.

User may trace and modify DHCP server information in this page

Field	Description	
DNS Relay Enable DNS relay function		
Lease Table Name Lease table name		
Lease Time	DHCP server lease time	

Start IP	Start IP of lease table
	End IP of lease table. Network device connecting to the IP PHONE
End IP	LAN port can dynamic obtain the IP in the range between start IP
	and end IP
Netmask	Netmask of lease table
Gateway	Default gateway of lease table
DNS	Default DNS server of lease table

Notice: This setting won't take effect unless you save the config and reboot the device

NAT

Г

				NA	T Configuration
IPSec ALG			FTP ALG		
PPTP ALG					
		A	pply		
Inside IP		Inside TCP Port		Outside TCP Port	
Inside IP		Inside UDP Port		Outside UDP Port	
Transfer Type Inside Ip	TCP 💌		Outside Port Inside Port		
Inside Ip			Inside Port		
		Add	Delete		
		Add	Delete		DMZ Table
	Outside IP	Add	Delete	Inside IP	DMZ Table
Outside IP	Outside IP	Add Inside II		<u>~</u>	1.000

Advance NAT setting. Maximum 10 items for TCP and UDP port mapping.

Field	Description
IPSec ALG	Enable/Disable IPSec ALG
FTP ALG	Enable/Disable FTP ALG
PPTP ALG	Enable/Disable PPTP ALG
Transfer Type	Transfer type using port mappin

Inside IP	LAN device IP for port mapping	
Inside Port	LAN device port for port mapping	
Outside Port WAN port for port mapping		

Click Add to add new port mapping item and Delete to delete current port mapping item.

Net Service

			Net Serv
HTTP Port	80	Telnet Port	23
RTP Initial Port	10000	RTP Port Quantity	200
lf m	odify HTTP or Telnet port,yo	u'd better set it more than 1024,then sav	e and restart.
	Ľ	OHCP Lease Table	

Field	Description		
	Configure HTTP transfer port, default is 80.User may change this		
HTTP Port	port to enhance system's security. When this port is changed,		
	please use http://xxx.xxx.xxx.xxx/ to reconnect.		
Telnet Port	Configure telnet transfer port, default is 23		
RTP Initial Port	RTP initial port		
RTP Port Quantity	Maximum RTP port quantity, default is 200		

Notice: Settings in this page won't take effect unless save and reboot the device.

If you need to change telnet port or HTTP port, please use the port greater than 1024, because ports under 1024 is system remain ports.

HTTP service if HTTP is set to 0.

Firewall settings

					Firewa	II Config	uratio
in_access er	nable			out_access ena	able		
			Æ	pply			
			Firewall In	out Rule Table			
Index Deny/Per	mit Protocol	Src Addr	Src Mask	Des Addr	Des Mask	Range	Port
Index Deny/Per		SIC AUU	Src Mask	Des Addr	Des Mask	Range	Port
Protocol Type					than 🗸		
Src Addr				Des Addr			
Src Mask				Des Mask			
	ut 🖌			Add			
Input/Output Inp	ut 💌			Index to be deleted			
			D	elete			

Firewall setting page. User may set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices to access the internet.

Access list support two type limits: input_access limit or output_access limit. Each type support 10 items maximum.

IP PHONE firewall filter is base WAN port. So the source address or input destination address should be WAN port IP address.

Field	Description
in_access enable	Enable in_access rule
out_access enable	Enable out_access rule
Input/Output	Specify current adding rule is input rule or output rule
Deny/Permit	Specify current adding rule is deny rule or permit rule
Protocol Type	Protocol using in this rule: TCP/IP/ICMP/UDP
Port Range	Port range if this rule
Src Addr	source address. Can be single IP address or network address

Dest Addr	destination address. Can be IP address or network address		
Src Mask	source address mask. Indicate the source is dedicate IP if set to		
SIC Mask	255.255.255.255. Otherwise is network ID		
Des Mask	Destination address mask. Indicate the source is dedicate IP if set		
Des Wask	to 255.255.255.255. Otherwise is network ID		

QoS settings

802.1p Configuration

	VLAN Enable	VLAN ID	256
DiffServ Value 0x b8	DiffServ Enable	DiffServ Value	0x b8
DiffServ Value 0x b8	DiffServ Enable	DiffServ Value	0x b8

IP PHONE IP phone implement QoS based on 802.1p, The QoS is used to mark the network communication priority in the data link/MAC sub-layer. IP Phone will sorted the packets using the QoS and sends it to the destination.

Field	Description	
	If enable the VLAN service, the second layer will realize separate	
	voice, signal and data transmission. To realize separate voice and	
VLAN Enable	data transmission by dispose for IP precedence of ToS area of voice	
	transmission. To reach upper layer switch or router have priority to	
	transfer voice transmission. (The prerequisite is the upper layer	
	swirch or router have to identify ToS area.)	
	Dispose VLAN ID is add a Tag header after realize enable the VLAN	
VLAN ID	function. The realized voice packets transfer at the same VLAN. The	
VLANID	prerequisite is it must the same as VLAN of upper switch. The value	
	range are 1~4094.	
	If enable the VLAN service, it indicates use DSCP mode to realize	
	three layers QoS. This moment, the DSCP of SIP signals which	
DiffServ Enable	between IP Phone and MGC. It will use Class Selector 5 (The value is	
	0xA0). And the DSCP of mediums information (In RTP packets) would	
	be used the values of DiffServ Value field.	
DiffServ Value	The value range are 00 ~ FF. (0x28, 0x30, 0x38, 0x48, 0x50, 0x58,	
	0x68, 0x70, 0x78, 0x88, 0x90, 0x98, 0xb8)	

Advance SIP settings

Advance SIP Configuration Public[Unregistered]Private[Unregistered] STUN NAT Transverse[FALSE]

STUN Server Addr		STUN Server Port	3478		
Public Alter Register		Public Alter Proxy			
Register Port	5060	Proxy Port			
Register Username		Proxy Username			
Register Password		Proxy Password			
Private Register		Private Proxy			
Register Port	5060	Proxy Port			
Register Username		Proxy Username			
Register Password		Proxy Password			
Private Domain		Expire Time	60 (seconds)		
Private Number		STUN Effect Time	50 (seconds)		
Private User Agent	Voip Phone 1.0	Private Server Type	common 💌		
Enable Private Register		Enable Private Outboun	Enable Private Outbound Proxy		
Enable SIP Stun					

This page is used to set the private sip server, stun server, and back up sip server information.

STUN Server setting:

Field	Description
STUN Server Addr	Configure stun server address
STUN Server Port	Configure stun server port default 3478
STUN Effect Time	Stun detect NAT type circle, unit: minute
Enable SIP STUN	Enable/disable stun

Public Alter Register:

Public Alter Register		Public Alter Proxy	
Register Port	5060	Proxy Port	
Register Username		Proxy Username	
Register Password		Proxy Password	

Public Alter server provide redundancy for the public server, if the public server is unavailable, IP PHONE will use the alter server, and switch back to the public server when it is available. Account setting in public alter setting should be the same as the public server.

Please refer to <u>SIP_Config</u> for the setting for how to set the public alter server.

User can register two sip servers:

Private Register		Private Proxy		
Register Port	5060	Proxy Port		
Register <mark>Us</mark> ername		Proxy Username		
Register Password		Proxy Password		
Private Domain		Expire Time	60	(seconds)
Private Number		STUN Effect Time	50	(seconds)

Public sip server and private sip server.these two sip servers are independent from each other and running in the same time.

For how to configure private sip server. Please refer to SIP_Config

Digital Map

	Digital Map Configuration
Ind with "#"	
O Fixed Length 11	
Time out 5	(330)
Ap	ply
Digital M	lap Table
Rules:	
8[3-8]xxxxx	
89xxx	
6567	
78xxxT2	
5[3,7,9]xxxxx	
	(Add)
8[3-8]xxxxxx	Add

Digit map is a set of rules to determine when the user has finished dialing.

IP Phone support below digital map:

Digital Map is based on some rules to judge when user end their dialing and send the number to the

server.

Field	Description
End With "#"	Use # as the end of dialing
Fixed Length	When the length of the dialing match, the call will be sent
Timoout	Specify the timeout of the last dial digit. The call will be sent after
Timeout	timeout

VIP-155PT support following digital map:

User Define digital map:

Field	Description
	Represents the range of digit, can be a range such as [1-4], or use comma such
[]	as [1,3,5], or use a list such as [234]
x	Represents any one digit between 0~9
	Represents the last digit timeout. n represents the time from 0~9 second, it is
Tn	necessary. Tn must be the last two digit in the entry. If Tn is not included in the
	entry, we use T0 as default, it means system will sent the number immediately if
	the number matches the entry.

Example:

Field	Description
[1-8]xxx	All number from 1000 to 89999 will be sent immediately
9xxxxxx	8 digits numbers begin with 9 will be sent immediately
911	Number 911 will be sent will be immediately
99xT4	3 digits numbers begin with 99 with be sent after four seconds

Call Service Settings

Call Service

Hotline					
Call Forward	d ③ Off O Busy O No Answer O Always				
	Phone Number	Addr		Port 5060	
No Disturb			🗌 Ban C	utgoing	
Enable Call T	Fransfer		Enabl	e Call Waiting	
Enable Three	e Way Call		Acce	Accept Any Call	
Auto Answer		Enabl	Enable Voice Record		
User-Defined Voice		Incom	Incoming Record Playing		
20 No Ansi	wer Time(seconds)				
Black List			Apply		
	A	dd	~		Delete
.imit List					
		dd	~		Delete

User configure the value add service such as hotline, call forward, call transfer, 3-way conference call .etc in this page

Field	Description
Hotline	Configure hotline number. IP PHONE immediately dials this
notime	number after hook-off if it is set
	Forward when busy: select Busy in the Call Forward Field, and
	Key in the destination phone number in the Forward Number. If
	some one calls you when you having a call, the caller will be
	forwarded to the destination number.
	Forward no answer: Select No Answer in the Call Forward Field,
	and Key in the destination phone number in the Forward Number,
Call Forward	fill the time in the No Answer Time. If some one calls you and no
	one answer the caller during the No Answer Time, the call will be
	forward to the destination number.
	Forward Always: Select Always in the Call Forward Field, and
	Key in the destination phone number in the Forward Number,
	then any one call this gateway will be forward to the destination
	number.
No Disturb	DND, do not disturb, enable this option to refuse any calls

Ban Outgoing	Enable this to ban outgoing calls
	Check the Enable Call Transfer.
	Unattended transfer: If A is the IP PHONE user, and B calls and
	talking with A through VoIP. A can press FWD button to hold the
	call with B, and then enter C's number . B will be transferred to C
Enable Call Transfer	and can talk with C.
	Attended transfer: If A is the IP PHONE user, and B calls and
	talking with A through VoIP. A can press Hold button to hold the
	call with B, and then enter C's number to talk will C. and press
	Hold to switch back to A, and then press FWD key , B will be
	transferred to C and can talk with C.
Enable Call Waiting	Enable/disable Call Waiting
	Check Enable Three Way Call
	Assume A is the VIP-155PT user, and B calls and talking with A
Enable Three Way	through VoIP. A can press FWD button to hold the call with B,
Call	then enter * and then enter C's number to talk with C, and then
	press * button again to make 3-way conference calls.
	If this option is disable, IP PHONE refuse the incoming call when
Accept Any Call	the called number is different from IP PHONE's phone number.
Auto Answer	Enable/disable auto answer function
	Enable/disable answering machine function. Please refer to the
Enable Voice Record	bwloe descriptions for detail.
User-defined Voice	Use customized greeting message
Incoming Record	Simultaneously play the message when recording
Playing	
No Answer Time	No answer call forward time setting
Black List	Incoming call in these phone numbers will be refused
Limit List	Outgoing calls with these phone numbers will be refused

Voice Record

VIP-155PT provides record function. With this function, user may record three VoIP message and one local message.

Field	Description
	Select "Enable Voice Record" to active answering
	machine, and config No Answer Time. If there is an
Enable Voice Record	incoming call and no one answer the call. After timeout, IP
	PHONE will auto answer this call and ask the caller to leave
	message.

Incoming Record Playing	Play the message when recording
User-Defined Voice	Use customizes greeting voice for answering machine

Record local message:

User may use local message to leave message to other local users.

Please refer the **Record** button function as below:

		Record Function
Level1	Level2	Description
Received	New	New message info
	Old	Old message info
	Record	Enable/disable answering machine
	Playing	Enable/disable Incoming Record Playing
Local	Play	Play local message
	Rec	Record local message
User define	Switch	Enable/disable customize greeting message
	Play	Play customize greeting message
	Rec	Record customize greeting message

MMI Filter

MMI filter is used to make access limit to IP PHONE IP phone.

When MMI filter is enable. Only IP address within the *start IP* and *end IP* can access IP PHONE IP phone.

		MMI Filter
MMI Filter	(Apply)	
Start IP	End IP	
Start IP	End IP	Add

Audio Settings

DSP Configuration

Coding Rule	g729	~	G729 Payload Length	20ms	•
Signal Standard	China	~	Handdown Time	200	ms
Input Volume	3	(1-9)	Output Volume	7	(1-9)
Handfree Volume	4	(1-9)		200. 	

Г.	Λ.	1	2	1.1
	м	ρ	D.	IY.

Field	Description
CODEC	select the prefer CODEC; support ulaw, alaw,G729 and G7231
CODEC	5.3/6.3
Signal Standard	Signal standard for different area
Input Volume	Handset in volume
Output Volume	Handset out volume
Handfree Volume	Hand free volume
Handdown Time	hand down detect time
G729 Payload Length	G729 payload length
VAD	Enable/disable Voice Activity Detection

Dial-Peer Settings

Dial-Peer

Number	Destination	Port	Alias	Suffix	Del length
2T	255.255.255.255	5060	del	no suffix	1
3T	0.0.0.0	5060	del	no suffix	1
123	0.0.0.0	5060	all:886222199518	no suffix	0
ОТ	0.0.0.0	5060	rep:886	no suffix	1
179	192.168.1.179	5060	no alias	no suffix	0

Add Delete Modify 2T 🗸

VIP-155PT provide flexible dial rule, with different dial-rule configure, user can easily implement the following function:

----Replace, delete or add prefix of the dial number.

----Make direct IP to IP call

----Place the call to different servers according the prefix.

You can click "Add" to add a new dial rule. Below is the detail setting of the dial-rule:

Field	Description
	The Number suit for this dial rule, can be set as full match or prefix
	match. Full match means that if the number user dialed is completely
	the same as this number, the call will use this dial-rule. Prefix match
Phone Number	means that if prefix of the number that the user dials is the same as
	the prefix, the call will use this dial-rule, to distinguish from the full
	match case, you need to add "T" after the prefix number in the phone
	number setting
	call destination, can be IP or domain. Default is 0.0.0.0, in this case
Destination	the call will be routed to the Public SIP server. If you set the
	destination to 255.255.255.255, then the call will be routed to the
(optional)	private SIP server. Also you can key other address here to make
	direct IP calls
Part (antional)	Configure the port of the destination, default is 5060 in SIP and 1720
Port (optional)	for H323
	Set up the Alias. We support four Alias as below. Alias need to
	co-work with the <i>Del Length</i> :
	> add:xxx, add prefix to the phone number, can set to reduce the dial
	length.
	> all: xxx, replace the phone number with the xxx, can use as speed
Alias (optional)	dial function.
Allas (optional)	del, delete the first N numbers. N is set in the Del Length
	rep:xxx , replace the first N numbers. N is set in the Del Length. For
	Example: Use wants to place a call 8610-62281493, then you can set
	the <i>phone number</i> in the dial rule as 010T, and set the <i>Alias</i> as
	rep:8610, and set the <i>Del Length</i> to 3. Then all calls begin with 010
	will be changed to 8610 xxxxxxx.
Suffix (optional)	Configure suffix, show no suffix if not set

Example:

Dial-Peer

Number	Destination	Port	Alias	Suffix	Del length
2T	255.255.255.255	5060	del	no suffix	1
3Т	0.0.0.0	5060	del	no suffix	1
123	0.0.0.0	5060	all:886222199518	no suffix	0
OT	0.0.0.0	5060	rep:886	no suffix	1
179	192.168.1.179	5060	no alias	no suffix	0

Add Delete Modify 2T 🗸

Field	Description
	If the call starts with 2, the first 2 will be deleted, and the rest number will be
2T rule sent to private SIP server.	
3T rule	If the call starts with 3, the first 3 will be deleted, and the rest number with be
STrule	sent to public SIP server.
123 rule	Dial 123 and will send 8675583018049 to your server. Used as speed dial
125 Tule	function
0T rule	If the calls is begin with 0, the first 0 will be replace by 86. Means that if you
UTTule	dial 075583018049 and AG-188 will send 8675583018049 to your server.
179 rule	When you dial 179 , the call with send to 192.168.1.179, suit for LAN
1/9/ule	application without set up a sip server.

Config Manage

Field	Description
Save Config	Save current settings
Clear Config	Restore to default settings

Notice: clear config in admin mode, all settings restores to factory default; clear config in guest modem, all settings except sip and advance sip restore to factory default.

WEB Update

Update IP phone's settings or firmware. Firmware file is .z extension when configure file is .cfg extension, IP PHONE will auto select configure update or firmware update according the extension.

	Web Update
Select file Browse (*.z or *.cfg)	
Update	
The device will reboot when update finish!	

FTP/TFTP Update

Backup:

Back up configure file to your FTP/TFTP server.

		FTP/TFTP Download
Server	192.168.1.53	
Username	admin	
Password	•••	
File name	Configuration.cfg	
Туре	Config file export 💌	
Porotocol	FTP 🗸	

* configure use .cfg extension.

Auto update:

IP PHONE IP phone support FTP and TFTP auto update. The gateway will auto obtain the configure file from your update server if configured. To obtain the original configure file, you can use the FTP/TFTP back up as describe above. Configure file using module structure, user may remain the concerned modules and remove other modules. Put the configure file in the root directory of update serve when finish editing.

34

		Auto Update Server Configuration
Server Address	192.168.1.53	
Username	admin	
Password	•••	1
config File name	Configuration.cfg	
digital map File name	digitalmap	
Protocol Type	FTP 🗸	

Configure file version was in the <<VOIP CONFIG FILE>> and <GLOBLE CONFIG MODULE> ConfFile Version

Example:

Gateway original version is:

<<VOIP CONFIG FILE>>Version:1.0000

<GLOBLE CONFIG MODULE> ConfFile Version : 6

User may edit the configure file version to:

<<VOIP CONFIG FILE>>Version:1.0007

<GLOBLE CONFIG MODULE> ConfFile Version : 7

Account Manage

Set web access account or keypad password of IP PHONE.

Keypad password	
Keypad password	
User Name User Level	
admin Root	
guest General	

Phone Book

User may set contacts in this page, and the contacts will be saved in the memory. Then using the Pbook, Vol+,Vol-,Menu/OK and Exit keys to choose your friend in the contacts and then press # to call out.

			Phone Book
Index	Name	Number	Address
		Add Delete Modify	

Syslog Config

		Syslog Configuration
	Enable Syslog	
		4
	Apply	
Server IP	Apply 0.0.0.0	

Field	Description	
Enable Syslog	Enable Syslog Enable syslog function.	
Server IP	VIP-155PT will automatic send the system logs to define server. Fill in	
	the server IP address.	
Server Port	Fill in the transmission port.	

Time Set

VIP-155PT could support SNTP timeset, type in SNTP Server address, Timezone and timeout fileds. And click "**select sntp**" to enable SNTP function.

If hasn't click "select sntp", it also could set up time by manual.

			Time Configuration
		SNTP Timeset	
server	207.46	.130.100	
timezone	(GMT+	08:00)Taipei	×
timeout	60	(seconds)	
	*	select sntp	
		Apply Manual Timeset	
year			
mont	hs		
day			
hour			
minu	te		
		(Apply)	

Reboot

Reboot IP phone, some setting needs to reboot to make it works. Please always save config before reboot, otherwise the setting will return to previous setting.



Chapter 4

Keypad Configurations

Keypad Function

User can configure IP PHONE through its keypad. List below is the keypad function

Keypad	Mode	Function/Display
Idle mode		show current time
Sysinfo	Idle mode	circularly show phone number,wan ip, gateway info
Menu/OK	Idle mode	enter config mode, default password 123
	config mode	confirm or enter sub-menu
Exit	config mode	exit
Up	Calling mode	volume up (Max:9)
	config mode	Page up
Down	Calling mode	volume down (Min:1)
	config mode	Page down
Del	Calling mode	Delete digits
	config mode	Delete digits
Mute	Calling mode	Mute
Out call	Idle mode	Outgoing call menu
In call	Idle mode	Incoming call menu
Record	Idle mode	Enter record menu, usage refer FAQ
Pbook	Idle mode	Enter Phone book set up
Handfree	Calling mode	Handfree
0 - 9	Calling mode	Digits 0~9
	config mode	Hit quickly to switch between numeric or alphabetic
*	Calling mode	Use in <u>3-way conference call.</u>
	config mode	Use as "." In the ip address setting

#	Calling mode	Use as end key of dialing or the dial number
Hold	Calling mode	Hold, detail refer <u>value add service</u>
FWD	Calling mode	Transfer, detail refer value add service
Redial	Calling mode	Redial key
Send	Calling mode	call key
No.1~No.9	Idle mode	Speed dial key

Keypad Menu

User may use **SET, Menu/ok, Exit, Vol+**, **Vol-** to config IP PHONE detail setting. Press **Menu/ok** to enter config mode, and the default password is **123**.

Below list the keypad menu of IP PHONE

	IP P	HONE Keypad M	lenu
Level 1	Level 2	Level 3	Level 4
Network	LAN	IP	
		Netmask	
		DHCP Server	
		NAT	Switch
			FTPalg
			IPSec alg
			PPTPalg
		Bridge Mode	
	WAN	Status	
		Static Net	1. IP
			2. NetMask
			3. Gateway
			4. DNS
			5. DNS2
		PPPoE	User name
			Password
		QoS	
Call Feature	Phone-number	Public SIP	
		Private SIP	
	Limit-List	Current	
		ADD	
		DEL	
	Black-List	Current	
		ADD	

		DEL		
	FastCall			
	Three Call			
	Call-Transfer			
	Call-Waiting			
	Call-Forward	Condition		
		SIP	Transfer Num	
			Transfer IP	
			Port	
	Dial-Rule	End With #		
		Fixed Length	Switch	
			Length	
SIP	Reg Status Public Reg			
		Private Reg		
	Reg Switch	Public		
		Private		
	Server	Private	Register	
			Proxy	
	Domain	Public		
		Private		
	User Agent	Public		
		Private		
	Detect-server			
	Dtmf-mode			
	Interval-time			
	Swap-server			
	RFC-version			
	Signal-Port			
	Stun	Switch		
		Addr		
		Port		
		Effect Time		
DSP	Codec			
	Handdown-time			
	Dtmf-Volume			
	Input-volume			
	Output-Volume			
System	Save			
	Reboot			

	Set Default	
Other Setting	Syslog	Switch
		Server-IP
		Server-Port



Chapter 5

Telnet Console

Introduce

Basic Structure

User may use telnet command to access and manage IP phone.

IP PHONE adopts tree structure for telnet. Every node contains its sub-nodes or local command. User can type "help" or "?" whenever to see sub-nodes and all local command under current node.

Besides local command, there are some global commands can be used in each node.

Basic command

Logout: exit telnet mode.

Write: save current settings.

Type sub-nodes name in current node to switch to sub-node. Type "!" or "exit" in current node to return to parent-node.

Type "help" or "?" can see all sub-nodes and all local command under current node, every help item has comments such as <command> or <node> to distinguish sub-nodes and local command. Type "help" or "?" in command can see all parameters using in this command.

When typing node name or command, user no need to key the full name, use TAB button will make it more efficient.

There are two types in command parameters: optional and required. "required" parameter use "-" as prefix and "optional" use "_" as prefix. User may type "-" or "_" then press TAB button for complementarily.

Global Command

Command	Function	Example
chinese	Set to Chinese UI	#chinese
clear	Clear telnet screen	#clear
english	Set to English UI	#english
exit	Return to parent-node	#exit
help	1 . Show help info	1. #help ping
	2. Show sub-nodes and local command	2.#help
history	Show command history	#history
logout	Exit	#logout
ping	Ping command, use to check network,	#ping www.google.com
tree	Print tree structure of current command	#tree
who	Show current user	#who
write	Save setting to flash	#write

Global command is available under all nodes, IP PHONE support following commands:

Tree Structure

account		
path: <account>#</account>		
[stop]start Syslogsyslog [no] start		
Configure Syslog server address and port	syslog server –ip x.x.x.x _port xxx	
Example: # <config-account-syslog>#server</config-account-syslog>	ip 202.112.20.10	
Show syslog settings	syslog show	
Show all account settings	show	

config

accesslist firewall config

 path:
 <config-accesslist>#

 add firewall rule
 ---entry –I/O xxx –P/D xxx –proto xxx –srcaddr

 x.x.x.x –srcmask x.x.x.v–desaddr x.x.x.v –desmask x.x.x.v –portrange xxx –portnum xxx

Example:<config-accesslist>#entry –I/O input –P/D deny –proto udp –straddr 202.112.10.1 –srcmask 255.255.255.0 –desaddr 210.25.132.1 –desmask 255.255.255.0 –portrange neq –portnum 5060

delete firewall rule	no entry –I/O xxx –index xxx	
Example : <config-accesslist>#no entry -I/O in</config-accesslist>	nput –index 1	
Show firewall settings	show	
[disable] enable input filter	[no]in-access	
[disable] enable output filter	[no]out-access	
> DHCP		
path: <config-dhcp>#</config-dhcp>		
add DHCP rule	entry –name xxx –startip x.x.x.x –endip	
x.x.x.x –netmask x.x.x.x –gateway x.x.x.x –dn	sserver x.x.x.x _time xxx	
Example: <config-dhcp>#entry -name lan200</config-dhcp>	4 –startip 192.168.1.2 –endip 192.168.1.254 –netmask	
255.255.255.0 –gateway 192.168.1.1 –dnsser	rver 192.168.10.18	
delete DHCP rule	no entryname xxx	
Example: <config-dhcp>#no entry -name lan</config-dhcp>	2004	
Show DHCP settings	show	
[disable]enable DNS-relay	[no]dns-relay	
> dialrule		
path: <config-dialrule>#</config-dialrule>		
[disable] enable End with #	[no]endchar	
Set end with fix length	fixlen xxx	
Disable end with fix length	no fixlen	
Set timeout to send	timeout-send xxx	
Disable timeout to send	no timeout-send	
Add digital map	entry –prefix xxx –length xxx	
Example: <config-dialrule>#entry -prefix 010</config-dialrule>	-length 11	
Delete digital map rule	no entry –prefix xxx	
Example: <config-dialrule>#no entry -prefix 0</config-dialrule>	010	
Show current digital map	show	
LAN interface settings		
path: <config-interface-fastethernet-lan>#</config-interface-fastethernet-lan>		
[disable]enable bridge mode	[no]bridgemode	
[disable]enable DHCP service	[no]dhcp-server	
[disable]enable NAT	[no]nat	
Show current DHCP rules	dhcpshow	

Show LAN port IP address	ipshow
Show NAT info	natshow
Change LAN port IP address	ipaddr x.x.x.xmask x.x.x.x

Example:<config-interface-fastethernet-lan>#ip -addr 192.168.1.10 -mask 255.255.255.0

۶ WAN interface settings

path: <config-interface-fastethernet-wan>#</config-interface-fastethernet-wan>	
[disable]enable dhcp client	[no]dhcp
[disable]enable pppoe	[no]pppoe
[disable]enable QOS	[no]qos
Set default gateway IP	gateway x.x.x.x
Clear default gateway IP	no gateway
Set WAN port IP address	ip –address x.x.x.x -mask x.x.x.x

Example:<config-interface-fastethernet-wan>#ip -addr 202.112.241.100 -mask 255.255.255.0 You need to reconnect if the WAN port has been changed. Show WAN port settings ---show

MMI Filter ≻

path: <config-mmifilter>#</config-mmifilter>	
add filter rule	entry -start x.x.x.x -end x.x.x.x

Example:<config-mmifilter>#entry -start 202.112.20.1 -end 202.112.20.255 Delete filter rule ---no entry --start x.x.x.x

Example:<config-mmifilter>#no entry -start 202.112.20.1 Show filter rule ---show [disable]enable MMI filter ---[no]start-filter

NAT settings \triangleright

path: <config-nat>#</config-nat>	
[disable]enable ftp alg	[no]ftpalg
[disable]enable ipsec alg	[no]ipsecalg
[disable]enable pptp alg	[no]pptpalg
Add TCP mapping rule	tcp-entryip x.x.x.xlanport xxxwanport xxx

Example: <config-nat>#tcp-entry -ip 192.168.1.</config-nat>	5 –lanport 1720 –wanport 1000
Delete TCP mapping rule	no entryip x.x.x.xlanport xxxwanport xxx

Example: <config-nat>#no tcp-entry -ip 192.168.1.5 -lanport 5060 -wanport 1000</config-nat>	
Add UDP mapping rule	udp-entry –ip x.x.x.x –lanport xxx –wanport xxx
Delete UDP mapping rule	no udp-entryip x.x.x.xlanport xxxwanport xxx
Show NAT info	show

> Netservice

path: <config-netservice>#</config-netservice>	
Set DNS address	dns -ip x.x.x.x _domain xxx

Example:<config-netservice>#dns --ip 202.112.10.36 _domain voip.comSet alternate DNS address---alterdns -ip x.x.x.x _domain xxxSet hostname---hostname xxxSet http access port---http-port xxxShow http access setting---http-portSet telnet access port---http-portShow telnet access port---telnet-port xxxShow telnet access port---telnet-portSet RTP initial port and quantity---media-port --startport xxx -number xxxx

Example:<config-netservice>#media-port -startport 10000 -number 200 Add route rule ---route -gateway x.x.x.x -addr x.x.x.x -mask x.x.x.x

 Example:Arcihfone<config-netservice>#route -gateway 202.112.10.1 -addr 202.112.210.1 -mask

 255.255.255.0

 Delete route rule

 ---no route -gateway x.x.x.x -addr x.x.x.x -mask x.x.x.x

 Show route info

 Show netservice info

 ----show

Dial-peer settings

path: <config-pbook>#</config-pbook>	
[disable]enable calling through GK and proxy	[no]enableGKandProxy
Add number-IP bond entry	entrynumber xxxip x.x.x.xprotocol xxx

Example:<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip

Add number-IP bond and add prefix to the dial number

---entry –number xxx –ip x.x.x.x –protocol xxx _add xxx

Example:<config-pbook>#entry –number 100 –ip 202.112.20.100 –protocol sip _add 123(dial 100 and will send 123100 according this rule)

Add number-IP bond and replace the destination with another number ---entry –number xxx –ip x.x.x.x –protocol xxx _all xxx

Example:<config-pbook>#entry –number 100 –ip 202.112.20.100 –protocol sip _all 123(user dial 100 and gateway will sent 100 instead)

Add number-IP bond and delete the prefix of the destination number ---entry –number xxx –ip x.x.x.x –protocol xxx _del xxx

Example:<config-pbook>#entry –number 1234 –ip 202.112.20.100 –protocol sip _del 2 (dial 1234 will send 34 instead)

Add number-IP bond and replace the prefix with another number ---entry –number xxx –ip x.x.x.x –protocol xxx _rep xxx _length xxx

Example:<config-pbook>#entry –number 1234 –ip 202.112.20.100 –protocol sip _rep 567 _length 2(dial 1234 will send 56734)

Delete dial-peer entry	no entrynumber xxx
Show current dial-peer rules	show
Set default voip protocol	default-protocol xxx

Port settings

path: <config-port># 或<config-port x="">#</config-port></config-port>	
set accecp relay mode	accept-relay xxx
set callerid mode	callerid xxx
disable callerid	no callerid
config call forwardcallforward -conditon xx	x –number xxx –ip xxx –port xxx –protocol xxx

Example: <config-port 0="">#callforward –condition busy –number 100 –ip 202.112.10.100 -port</config-port>		
5060 –protocol sip		
Disable call forward	no callforward	
[disable]enable call transfer	[no]calltransfer	
[disable]enable call waiting	[no]callwaiting	

Set prefer codec	codec xxx
Set DTMF gain	dtmfvolume xxx
Set black list	in-limit xxx
Show black list	in-limit
Set input volume	input xxx
Set outgoing limit list	out-limit xxx
Show outgoing limit list	out-limit
Set output volume	output xxx
[disable]enable outgoing limit	[no]shutdown out
[disable]enable black list	[no]shutdown in
[disable]enable outgoing limit and black list	[no]shutdown
[disable]enable 3-way conference	[no]threetalk
Show port settings	show

PPPoE settings

path: <config-pppoe>#PPPoE account settings---auth -user xxx -password xxx**Example:**<config-pppoe>#auth -user aaa -password 123456[disable]enable service settings----[no]service xxxShow pppoe settings----show

> QOS settings

path: <config-qos># [delete]add QoS table entry --- [no]entry -addr x.x.x.x -mask x.x.x.x **Example:**<config-qos>#entry -addr 202.112.10.1 -mask 255.255.255.0 [disable]enable include QOS table ----[no]include Show QoS settings ----show

SIP settings

path: <config-sip>#</config-sip>	
[disable]enable registration	[no] register
[disable]enable auto detect server	[no] detect-server
Set sip domain	default-domain xxx
Set DTMF mode	dtmf-mode xxx
Set auto detect interval time	interval-time xxx
Set RFC edition	rfc-version xxx
[disable]enable auto swap server	[no]swap-server
Set sip account	number-password –number xxx –password xxx

Set local SIP signal port	signalport xxx	
Set proxy server	server proxy -ip x.x.x.x _port xxx _user xxx _password	ххх

Example: <config-sip-server># proxy ip 210.25.2</config-sip-server>	23.22 _port 5060 _user aaa _password 123456
Set register server info	server register -ip x.x.x.x _port xxx -user xxx
_password xxx	
Set alter proxy info	alter-server proxy -ip x.x.x.x _port xxx _user xxx
_password xxx	
Set alter server info	alter-server registerip x.x.x.x _port xxx _user xxx
_password xxx	
[disable]enable stun server	stun [no]enable
Set stun detecting interval time	stun interval-time xxx
Set stun server ip and port	stun –ip x.x.x.x –port xxx
Show current sip info	show

> User management

path: <config-user>#</config-user>	
Change user right.	access –user xxx –access xxx

Example:<config-user>#access -user aaa -access 7

Change user password	password –user xxx
Add new user	entry -user xxx -access xxx

Example: <config-user>#entry -user abc -acces</config-user>	ss 7
Delete user entry	no entry –user xxx
Show current sip info	show

Debug (Level 0~7)

path: <debug>#</debug>	
show debug setting	show
[disable]enable debug all modules	[no] all xxx
[disable]enable debug app module	[no] app xxx
[disable]enable debug cdr module	[no] cdr xxx
[disable]enable debug sip module	[no] sip xxx
[disable]enable debug h323 module	[no] h323 xxx
[disable]enable debug tel module	[no] tel xxx
[disable]enable debug dsp module	[no] dsp xxx

Download configure to flash

usage: #download tftp -- ip x.x.x.x -- file xxx

#download ftp -user xxx -password xxx -ip x.x.x.x -file xxx

Example: #download ftp -user abc -password 123 -ip 202.112.20.15 -file AG188.cfg

Password

usage: #password Enter new password:xxx

Confirm new password:xxx

Reload

usage: #reload Reboot system

Show system running info

accesslist
 path: <show>#
 show: accesslist (firewall) settings
 Example: #<show>#accesslist

basic
 path: <show>#
 show network status
 Example: #<show>#basic

call
 path: <show>#
 show current call info
 Example: #<show>#call active

capability
 path: <show>#
 show CODEC capability
 Example: #<show>#capability

debugging

path: <show># show debug info **Example:**#<show>#debugging

dhcp-server
 path: <show>#
 show LAN status and DHCP server info
 Example:#<show># dhcp-server

dial-rule
 path: <show>#
 show digital-map info
 Example:#<show># dial-rule

interface
 path: <show>#
 show LAN info
 Example:#<show>#interface fastethernet lan
 show WAN info
 Example:#<show>#interface fastethernet wan

ip
 path: <show>#
 show arp table info
 Example:#<show>#ip arp

Show DNS server info Example:#<show>#ip dns

Show netstate info **Example:**#<show>#ip netstat

Show route info Example:#<show>#ip route

Show icmp packets Stat.

Example:#<show>#ip icmp

Show igmp packets Stat. Example:#<show>#ip igmp Show ip packets Stat. Example:#<show>#ip ip

Show RTP packets Stat. **Example:**#<show>#ip rtp

Show TCP packets Stat. Example:#<show>#ip tcp

Show UDP packets Stat. Example:#<show>#ip udp

memory
 path: <show>#
 show IP phone memory
 Example:#<show>#memory

nat
 path: <show>#
 show NAT information
 Example:#<show>#nat

port
 path: <show>#
 show caller-ID info
 Example:#<show>#port callerID

show dsp info

Example:#<show>#port dsp

show hotline info **Example:**#<show>#port hotline

show black list info

Example:#<show>#port in-limit

show outgoing limit info Example:#<show>#port out-limit show current phone number Example:#<show>#port number

show current port status Example:#<show>#port status

PPPoE
 path: <show>#
 show PPPoE info
 Example:#<show># pppoe

qos
 path: <show>#
 show QoS table info
 Example:#<show>#qos

sip
 path: <show>#
 show sip info
 Example:#<show>#sip

udptunnel
 path: <show>#
 show UDP tunnel info
 Example:#<show># udptunnel

uptime
 path: <show>#
 show running time
 Example:#<show># uptime

version
 path: <show>#
 show IP phone version
 Example:#<show># version

Telnet and logout

Usage: #telnet -target -port Login:xxx Password:xxx # #logout

Telnet and logout

path: <time>#

---manualset –year xxx –month xxx –day xxx –hour xxx –minute xxx –second xxx **Example:**<time>#manulset –year 2004 –month 10 –day 1 –hour 8 –minitute 30 –second 0

[disable]enable SNTP server	sntp [no] start
Set SNTP IP address	sntp server x.x.x.x
Set SNTP server timeout	sntp timeout xxx
Set timezone (-12~+12)	sntp zone xxx
Show SNTP info	sntp show
Show current time	print

Tracert trace network path info

usage: #tracert -host

Example:#tracert 3 HYPERLINK "http://www.google.com" 4www.google.com5

Update IP Phone

usage: # update ftp –user xxx –password xxx –ip x.x.x.x –file xxx # update tftp –ip x.x.x.x –file xxx Example:# update ftp –user abc –password 123 –ip 202.112.20.15 –file AG188.dlf

Upload configure file

usage: # upload ftp –user xxx –password xxx –ip x.x.x.x –file xxx # upload tftp –ip x.x.x.x –file xxx

Network Diagnosis

There are some telnet commands for checking your network. Now Listing below for your information

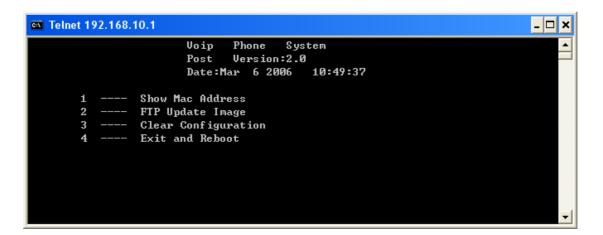
Command Function Example

ping	Check if the destination is accessible	#ping www.google.com
tracert	Show network path info	#tracert <u>www.google.com</u>
show basic	Show network settings	#show basic
show ip route	Show route table	#show ip route
show ip arp	Show arp table	#show ip arp
show ip netstat	Netstat programe	#show ip netstat
telnet	Telnet to another device	#telnet 192.168.1.2

Reset to factory default

#setdefault clear IP phone settings expect network part
#setdefault all clear all settings.

POTS Mode (Safe mode)



VIP-155PT provide safe mode. When there is booting problem because of setting problem or firmware problem. User can restore the factory setting or upgrade to a new firmware to solve this problem.

How to enter safe mode?

There will be a schedule bar in the VIP-155PT booting procedure, press # key within the first 5 seconds, then the phone will go to POST mode. It has a default ip 192.168.10.1 in POST mode. User may change the PC's IP address to 192.168.10.xx and telnet to 192.168.10.1 to access the VIP-155PT in POST mode.

User can accord the guide in post mode to clear the settings or upgrade the firmware.

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Appendix A

FAQ

Q1: How many servers may VIP-155PT register simultaneously?

A1: VIP-155PT is able to register two SIP servers simultaneously, and redundancy servers.

User can configure the dial peer to route calls between these servers.

Q2: Why the settings vanish after reboot?

A2: Please go to Config Manage→Save Config to save your setting always.

Q3: How to use speed dial function?

A3: There are 9 speed dial keys in the IP PHONE panel, Usage:

Set speed dial number: press the speed key and enter the speed dial number and then press Menu/OK key to save the setting.

Menu/OK key to save the setting.

Pick up the handset and press the speed dial key to dial the pre-define number.

Q4: How to use set the IP type via keypad?

A4: In the idle mode, user may us the keypad to set the IP type as the below procedure:

Keep pressing the button 1 for changing to static mode.

Keep pressing the button 2 for changing to DHCP mode.

Keep pressing the button 3 for changing to PPPoE mode.

Appendix B

Voice communications

There are several ways to make calls to desired destination in IP Phone. In this section, we'll lead you step by step to establish your first voice communication via keypad and web browsers operations.

Peer to Peer (P2P) Mode

Step 1: Assuming there are two VIP-155PT in the network the IP address are 172.16.0.1 and 172.16.0.2



Step 2: Execute your web browser, and insert the IP address (**172.16.0.1**) of the VIP-155PT-A in the adddress bar. After log on machine, browse to "**Dial-peer**" configuration item:

				IP Phone					
					Dial-Pee				
Number	Destination	Port	Alias	Suffix	Del length				

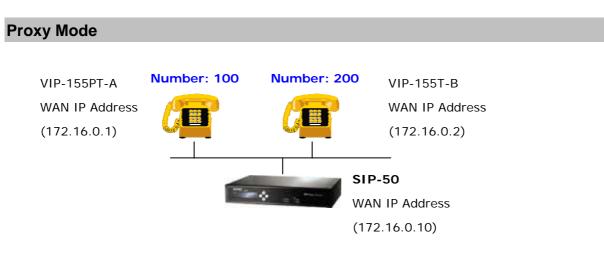
Step 3: Press "Add" button and fill in the below parameter, be sure to click the "**Submit**" button to apply settings. Browsing to "**Config Manage**" \rightarrow "**Save Config**" configuration item and press "**Save**" button to save the configuration.

lumber	Destination F	Port	Alias	Suffix	Del length
	Add Delete	te Mo	dify 🖌 🔽		
	Phone	Number	2		
	Phone Destination (c		2 172.16.0.2		
	Destination (c		172.16.0.2		
	Destination (c Port(c	optional)	172.16.0.2		
	Destination (c Port(c Alias(c	optional) optional)	172.16.0.2		

Step 4: Pick up handset or press "Handfree" key from keypad of VIP-155PT-A and dial "2#". Then the phone of VIP-155PT-B should ring. You can do the same thing to the VIP-155PT-B.

If the IP address of the remote calling party is known, you may directly make calls by preset number via its IP address and end with an "#".

If the IP phones are installed behind a NAT/firewall/ IP sharing device, please make sure the NAT device support SIP applications before making calls



SETP 1:

(i) Hint

Please browse machine "VoIP" \rightarrow "SIP Config" menu, and enable the "Enable Register" check box. Insert IP address of the remote calling party in the "Register Server Addr" field. Sample configuration screen is shown below:

SIPIRegistered] Configuration

Register Server Addr	172.16.0.10		Proxy Server Addr		
Register Server Port	5060		Proxy Server Port		
Register Username	100		Proxy Username		
Register Password	•••		Proxy Password		
Domain Realm			Local SIP Port	5060	
Phone Number	100		Register Expire Time	60	seconds
Detect Interval Time	60 s	seconds	User Agent	Voip Phone	1.0
DTMF Mode	DTMF_RELAY	*	Server Type	common	~
RFC Protocol Edition	RFC3261 🗸		Auto Detect Server		
Enable Register			Enable Pub Outbound Pr	оху	

After these configurations, be sure to click the "Apply" button to apply settings.

SETP 2:

Browsing to "**Dial-peer**" configuration item, press "**Add**" button and fill in the below parameter.

mber	Destination	Port	Alias	Suffix	Del length
	Add Dele	ete Mo	idify		
	Phor	ne Number	2T		
	Phor				
	Destination		0.0.0.0		
	Destination Por	n (optional)	0.0.0.0		
	Destination Por Alia:	n (optional) rt(optional)	0.0.0.0 5060 del		

After these configurations, be sure to click the "**Apply**" button to apply settings.

SETP 3:

Browsing to "Config Manage" \rightarrow "Save Config" configuration item and press "Save" button to save the configuration. Browsing to "System Manage" \rightarrow "Reboot" menu and press "Reboot" button reboot the machine to make the settings effective. After rebooting, the unit will register to SIP-50, the LCD screen will show below:

VOIP PHONE	
SEP 20 13 12:30	

SETP 4:

At this moment, you may pick up the handset and dial "200" to connect with extension 200 of VIP-155PT-B to start the voice communications.

Appendix C

VIP-155PT series Specifications

Product	Power over Ethernet SIP IP Phone
Model	VIP-155PT
Hardware	
WAN	1 x 10/100Mbps RJ-45 port
	Power Over Ethernet 802.3af compliant at PT model
LAN	1 x 10/100Mbps RJ-45 port
LCD display	2 x 16 characters
Speaker	8 Ohm/0.2 Watt speaker for speakerphone operation
Protocols and Standard	
Standard	SIP 2.0 (RFC3261), SIP digest authentication (MD5)
Voice codec	G.723.1 (6.3k/5.3k), G.729, G.711 (a-law/u-law)
NAT Traversal	Outbound Proxy, STUN
Voice Standard	Voice activity detection (VAD)
	Comfort noise generation (CNG)
	Dynamic Jitter Buffer
Supplementary services	Immediate (unconditional) call forwarding
	Busy call forwarding
	No answer calls forwarding
	Calls hold/transferring.
	Answer Machine
	3-Way conference calls
Call history	Incoming call
	Outgoing call
	Missed (not accepted) call history
Protocols	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP, FTP,
Natural and Orafianation	PPP, PPPoE
Network and Configuration	
Access Mode	Static IP, PPPoE, DHCP
Management	Web, Keypad, Telnet
Dimension (W x D x H)	200 mm x 184 mm x 60 mm
Operating Environment	0~40 degree C, 10~90% humidity 12V DC
Power Requirement	
	(802.3af 48VDC in line power)
EMC/EMI	CE, FCC Class B

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com