

# What's in this guide?

The top menu bar and the entries in the Table of Contents are all hyperlinks. Just click on them to go to the topic.

We recommend that you visit the Cisco web site regularly for updated versions of this guide. Go to: <u>http://www.cisco.com</u>

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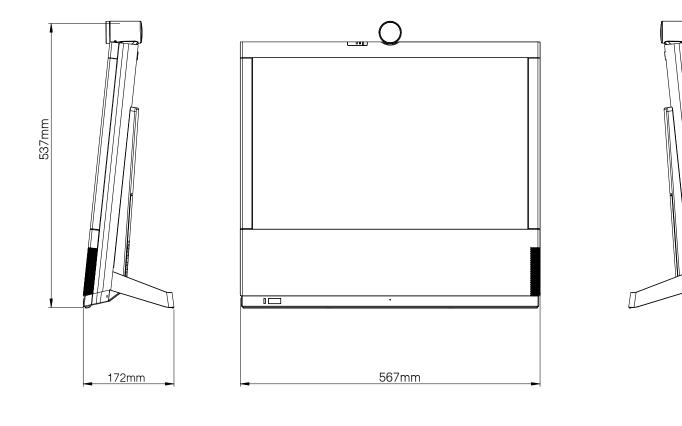
## Introduction

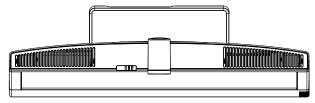
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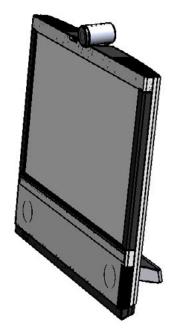
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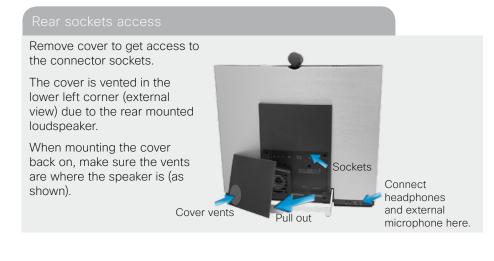




**Chapter 2** Connecting the EX90

## Connecting the EX90

Connect the cables as shown. Sockets are located behind the rear cover. If you have one LAN connection only–and need that for your PC–the EX90 has a built in Gigabit ethernet switch that enables you to connect your PC to the EX90 to access the LAN through the EX90.



#### The EX90 parts

Camera with built-in privacy shutter.

The Cisco Telepresence touch screen controller







- 1 Connect your PC here if you need to share a single LAN connection with the EX90.
- **2** Connect your EX90 to the LAN.
- **3** USB socket (for future use).
- 4 Connect the touch screen controller.
- 5 HDMI In (inner socket) and HDMI Out\* (outer socket).
- 6 Connect power here.

\* HDMI out is used when connecting an extra monitor (typically for presentations)—see the next page for more.

#### Connecting for use as PC screen





Connect your PC to the sockets on the rear panel as shown below.



Connect your PC video to 1 and PC audio to 2

A resolution of 1920 × 1200 is recommended. For a list of other screen resolutions supported, see "Setting the screen resolution" on page 9.

#### Connecting a PC to the unit

Your EX90 has an HD display, which also may serve as your PC screen. Connect your PC to the sockets on the rear panel as shown below. For optimal PC image quality, digital output (DVI) from the PC is recommended. If both DVI and HDMI are connected, a **Source** button appears in the setup menu on the touch screen to let you select which source to use as PC screen.



#### Setting the screen resolution

A resolution of  $1920 \times 1200$  is recommended. However, other resolutions may also be used as shown in the below tables.

Digital input via DVI	Analog input via DVI
1920 × 1200 (recommended) 1920 × 1080	1920 × 1200 (recommended)
1776 × 1000 (not full screen)	
1680 × 1050	1680 × 1050
1600 × 1200 (not full screen)	1600 × 1200 (not full screen)
1440× 900	1440× 900
1400 × 1050 (not full screen)	
1280 × 1024 (not full screen)	1280 × 1024 (not full screen)
1280 × 960 (not full screen)	, , , , , , , , , , , , , , , , , , ,
1280 × 800	
1280 × 768 (not full screen)	
1280 × 720 (not full screen)	
1152 × 648 (not full screen)	
1024 × 768 (not full screen)	1024 × 768 (not full screen)
960 × 600 (not full screen)	
800 × 600 (not full screen)	800 × 600 (not full screen)
. , , , , , , , , , , , , , , , , , , ,	

Screen resolution must be set via the web interface, using the **Video Output HDMI [1] Resolution** setting. For details on this, see the EX90 Administrator Guide, which is available separately for download.

#### Use as PC screen

Your EX90 has an HD display, which also may serve as your PC screen. Connect your PC to the sockets on the rear panel as shown above.

Your EX90 will serve as your PC screen outside calls. In a call tap **Presentation** to view your desktop. Your desktop is not exposed to the other side before you press **Present**.

#### Jsing an external monitor to show presentations

You may connect an external monitor to your EX90 to have it work with two monitors at the same time. The second monitor can be configured to show presentations instead of having everything on a single screen.

To enable the use of a second monitor the system must be configured for it. This is done via the web interface using the **Video DefaultPresentationSource** setting. Doing so is described in the EX90 Administrator Guide which is available separately for download .



#### Camera adjustments

The camera can be tilted mechanically in vertical direction.



#### Use as document camera

Tilt the camera as shown to use it as a document camera. Image is automatically turned upside down, so that both parties will see the document correctly.



Turn the circumference to activate the privacy shutter.





Touch controller—initial view



nitial settings-before you begin



Tap **Selfview** to see what others will see of you.



B

The best view wil be the view that positions your face as high up on the screen as possible without cutting off the top of your head.



If you need to adjust the camera, tap **Camera Control**.

Entering **Camera Control** will also cause the EX90 to show selfview, so if you know that camera adjustments are needed. you do not have to activate selfview first.



#### Calling someone by entering URI or number





If you need to key in digits or special characters, press and hold the key until the character appears.





Terminate the call by tapping **END**.

#### Searching for an entry in any of the lists





B

... then tap Search or Dial.







Tap **END** to terminate the call.

#### Calling an entry in any of the lists





... then tap **Favorites**, **Directory**, or **History**.





... then tap the entry to be called (1) and finally tap **START** (2) to place the call.



Tap **END** to terminate the call.



**Favorites.** The list of favorites is your own shortlist of people and places you frequently call or otherwise want to have easy access to.

**Directory.** The directory serves as your corporate phone book. This directory cannot be edited by you. You may, however, copy entries to your list of favorites and edit them there.

**History** lists the received, placed and missed calls since the last time the list was cleared.

**Keypad.** Tap the keypad icon is to produce the keypad to enter a number or URI.

wo calls at the same time





... then tap **Favorites**, **Directory**, **History**, or key in the URI...



... then tap the entry to be called (1) and finally tap **START** (2) to place the call.



You will now be in a call with the second person, while the first one is on hold. In this example, you talk to **Peer Gynt**, while **Berlin Sales Office** is on hold.

Click on the person currently on hold (here **Berlin Sales Office**) to be offered swapping of the calls or transferring the call on hold to someone else.

6

Optional feature: If you drag Berlin Sales Office from the bottom line and onto the stage, you will initiate a MultiSite call (a video conference) with yourself, Berlin Sales Office and Peer Gynt.



Transfer is available to SIP calls only and the procedure is shown on the next page.

If your EX90 is equipped with the optional MultiSite feature you may also set up a video conference with three participants and yourself. See "Calling more than one" on page 18.

Click on the person you currently talk to (here **Peer Gynt**) to terminate or transfer that call.

#### Transferring calls





Call the person to whom the current call shall be transfered. When you tap the green call button (not shown), the call will be transferred. The call will now be transferred. This will work irrespective of who initiated the call.

Note that you may combine **Transfer** with the **Hold** and **Swap** features as much as you want.

This means, for example, that in a call you may:

- Put your current call on hold and call a second party.
- Then initiate a transfer of the one on hold to the second party.
- You may now disengage yourself by tapping **END** on your unit.

#### Calling more than one

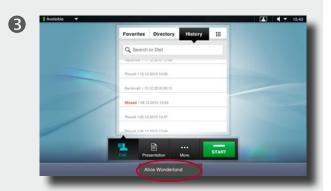
0

Calling several to initiate a video conference is an optional feature. If your system permits it, you may define two participants and then call them both in one go.

Enter a number or URI, or pick an entry from the **Directory**, the list of **Favorites**, or from the **History**.



2



The entry will appear on the bottom line of the touch pad, as outlined.



#### Adding participants to an ongoing call (Multisite)

Calling more than one using Multisite is an optional feature that may, or may not, be present on your system. If in doubt, ask your System Administrator.

2





... then select, in the usual way, whom to add to the ongoing call.



Once you have selected someone, the **ADD TO MEETING** dialog box wil be produced ...



... now, tap **ADD TO MEETING** to include this participant in the meeting.



conference. To disconnect just one of the participants, tap the participant's name along the bottom line and then tap **END**.

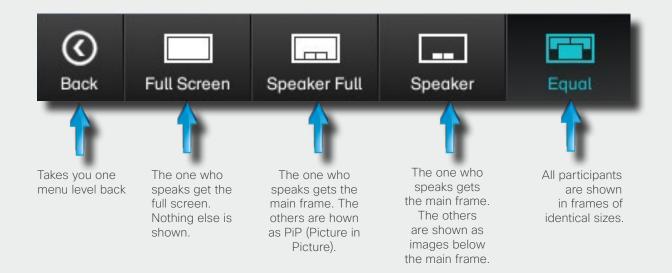
#### ayout control in MultiSite



If you are in a MultiSite call or in a Point-to-point call with a presentation, you may alter the layout on the screen. To do this start by tapping **More** ...







When a presentation is included in a call, all participants will be shown **above** the presentation instead of below. This will provide a better feeling of eye contact. Full screen will show the

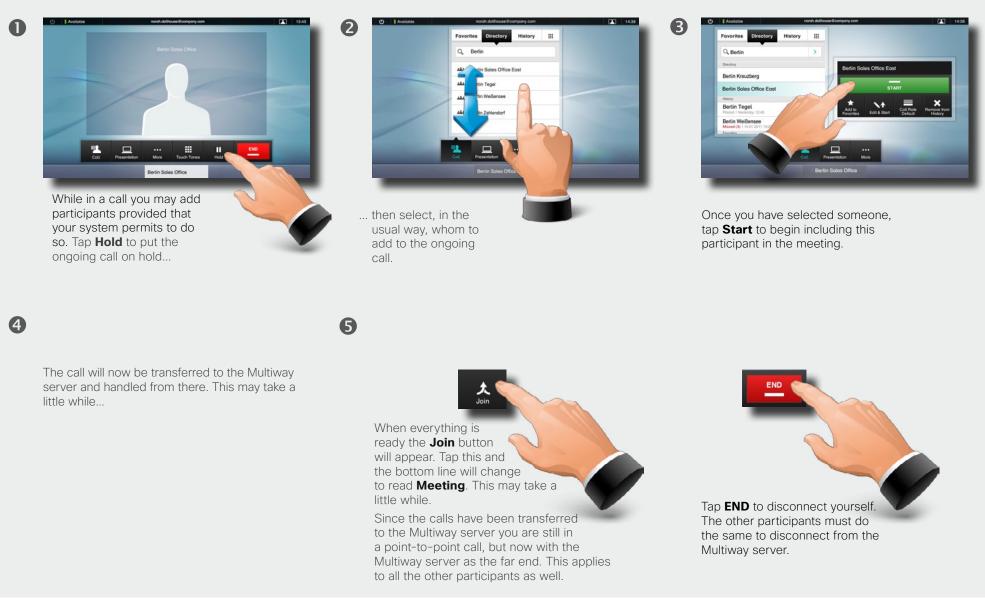
presentation only.

D14724.06 User guide EX90, TC4.2, July 2011. All contents are copyright © 2010–2011 Cisco Systems, Inc. All rights reserved.

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#### Adding participants to an ongoing call (Multiway

Calling more than one using Multiway is an optional feature that may, or may not, be present on your system. If in doubt, ask your System Administrator.



#### History

**History** lists the received, placed and missed calls since the last time the list was cleared.

Tap **History** to produce the list ...



Fevorites Directory

Q. Search or Dia

Peer Gynt

Horry P. Otter

Berlin Soles Of

... then tap an entry.

You will now be able to:

- Call the entry by tapping Start.
- Add the entry to an ongoing call (optional feature).
- Add the entry to **Favorites**.
- Edit the entry information and then place the call.
- Change the call rate settings.
- Remove the entry from the list.
- Clear the entire list. To do this, scroll as outlined beyond what appears to be the top of the list.
   A Clear List button will then appear.

#### Directory

The **Directory** serves as your corporate phone book. This directory cannot be edited by you. You may, however, copy entries to your list of favorites and edit them there.

Tap **Contacts** (if needed) and then tap **Directory**. The directory is typically organized as folders.



Tap a folder (1) to show its contents, scroll (2) if needed to locate a folder or an entry within a folder. Once located, tap the entry to call, edit or add to your

list of favorites in the same way as with the history list. It may happen that an entry copied from the directory to the list of favorites later is updated in the directory. This update will not be reflected in your list of favorites you must then manually update the entry in the list of favorites.

#### Favorites

**Favorites** is your own shortlist of contacts you frequently call or otherwise want to have easy access to.

Adding to Favorites. To add someone to the list of favorites, locate the entry in **Directory** or **History** (as outlined) and tap it (1). This will produce a dialog box which allows you to tap **Add to Favorites** (2).



You may now edit the entry, if needed–just tap a field and the keyboard will be produced. Tap **Save** to put changes into effect.



**Favorites** should be considered as an editable directory and is used in the same way as **History**.

#### Searching

You may search for entries (numbers or URIs). Searches will be conducted within all the folders, i.e. within the **Favorites**, the **Directory** and the **History**.

Tap in the **Search or Dial** field and key in the name, URI or number. Matches will appear as you search.

Once located, tap the entry to call, edit or add to **Favorites**.



When searching within the corporate **Directory**, the search will apply to the current directory folder and its subfolders only. To go one level up, tap **Back**. To make the search apply to the entire corporate directory, do not enter (tap) any folder before the search is commenced.

#### Do not disturb

When set to **Do Not Disturb** (DND), ringtones are muted and missed calls you get while having DND active, will be presented when you exit DND..

You may, however, place calls as much as you like. To activate this feature, press the icon in the upper left corner. Press again to deactivate.

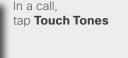


You may also hide the Do Not Disturb poster by tapping **Hide**.

#### Jsing Touch Tones (DTMF)

Sometimes you may be urged to enter touch tones (DTMF) during a call, typically to reach extensions or to provide a pin code.





the bad. here exit.

#### Far end camera contro

If the other end point permits it, you may control their camera. This is known as **Far end** 

camera control.

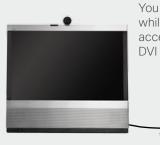
If the other camera cannot be controlled, nothing happens.

This works in Point-topoint calls as well as MultiSite calls.





Sharing contents-conducting presentations



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4

You may share contents while in a call. The EX90 accepts two sources—via DVI and via HDMI.



**Note!** You must be in a call to be able to share contents. Your presentation source must be powered and active as well as connected. Otherwise the **Presentation** icon (button) will fail to appear.





... then tap **PRESENT** to start sharing contents.



Tap **STOP PRESENTING** to stop sharing contents. If you have two sources connected, you will be presented with the possibility to swap between these at any time.



The EX90 can be configured via the touch screen controller or via its web interface. For full access to all configurable parameters the web interface must be used—the touch screen controller provides access to a limited set of parameters only.

# **Chapter 4** The Settings using Touch

#### Setting the EX90 in standby

Outside a call, you may have the unit enter standby mode by touching the **Power** button on the main unit (the screen). The *Standby* dialog is displayed and the unit enters standby immediately. This does not work when you are in a call.





Tap as shown to wake up the system from standby.

#### Shutting down the EX90

Outside a call, press the **Power** button until the *Shutdown progress bar* is filled completely.

Release the button and the unit will go in shutdown in just a few seconds.



To start the system again, press the **Power** button until the LED illuminates (green light).

#### To revert to the factory default settings, do as follows:

- 1. Disconnect the power cord.
- 2. Reconnect the power cord-a green light will illuminate shortly after.
- **3.** Press the **Power** button as soon as the green light appears. Keep it depressed for 15 seconds or so, until the green light starts flashing.
- **4.** Release the button and press twice within 2 seconds. All settings will now revert to factory default settings.

#### Gaining access to the Settings

Access the Settings as follows:



ettings I System Information			Exit
System Information	System Nome:	these residences and	
	Uptime:	2 days, 5 hours, 18 minutes	
Coll Status	NETWORK		
	IPv4 Address:	TO COMPANY AND A DECIMAL OF	
Comera Control & Settings	IPv6 Address:		
	Touch Screen IPv4	100.00*1.0	
Display Settings	Touch Screen IPv6	March 100 Birth Thomas	
	H323		
Ringtone & Sound Settings	Number:	559216	
	1D.	phonese and a light second	
Background	Gotekeeper:	NAMES OF TAXABLE PARTY OF TAXAB	
	Stotus:	Registered	
Administrator Settings	SIP		
	Address:	phonese and interpretations of	
Restort	Proxy:	NAMERAL	
	Stotus	Registered. Secured. Not verified.	
	SOFTWARE		
	Version:	TC4.2.0.259927	
	Touch Screen:	TT2.2.0.259927	
	Options Installed:	MultiSite, PremiumResolution	

... and then you get access to the settings available. Observe that there are several other settings available, but these can be acessed from the web interface only. See the Administrator guide for your Cisco product. This guide is available for download separately. The System information provides all the system information at a glance.

Scroll down to also see status on video inputs (DVI and HDMI).

Settings I System Information			Exit
System Information	System Name:	the rest frager fit	
-,	Uptime:	2 days, 5 hours, 18 minutes	
Call Status	NETWORK	Facessor Constant San Cardina	
	IPv4 Address:	Trade and the second	
Camera Control & Settings	IPv6 Address:		
	Touch Screen IPv4	100,004 (LA)	
Display Settings	Touch Screen IPv6	THE REPORT OF THE REAL	
	H323		
Ringtone & Sound Settings	Number:	559216	
	ID:	phonese additionation	
Background	Gatekeeper:	Trading Sector	
	Status:	Registered	
Administrator Settings	SIP		
We Mich M	Address:	phonger and interpretation over	
Restart	Proxy:	Surface Sector	
	Status:	Registered. Secured. Not verified.	
	SOFTWARE		
	Version:	TC4.2.0.259927	
	Touch Screen:	TT2.2.0.259927	
	Options Installed:	MultiSite, PremiumResolution	

The **Call Status** pane provides in-call information on such things as call rate and frame rate, protocols used, packet loss and jitter.

System Information	Remote URI:	peer.gynt@h	nimself.enough.no		
	Call Rate:	768	Encryption Type:	None	
Call Status	Protocol:	sip	Encryption	Off	
Camera Control & Settings	VIDEO	Transmit	Presentation	Receive	Presentation
-	Protocol:	H264	Off	H264	Off
Display Settings	Resolution:	768x448	n/a	768x448	n/a
	Frame Rate:	30	n/a	29	n/a
Ringtone & Sound Settings	Channel Rate:	704 kbps	n/a	664 kbps	n/a
ningtone a cound octaings	Total Packet Loss	0.0%		0.0%	
Packaround	Current Packet Loss	0.0%		0.0%	
Background	Jitter:	1 ms		2 ms	
Administrator Settings	AUDIO	Transmit		Receive	
	Protocol:	AACLD - Mor	no	AACLD - Mo	no
Restart	Channel Rate:	63 kbps		63 kbps	
	Total Packet Loss	0.0%		0.0%	
	Current Packet Loss	0.0%		0.0%	
	Jitter:	2 ms		0 ms	

#### Camera Control and Settings

The **Camera Control & Settings** pane lets you set the whitebalance and exposure of the camera. If you do not want to tweak this yourself, just leave it to the system by selecting **Auto**.

**Backlight compensation** comes in handy when there is much light behind you. Without compensation you will easily appear very dark to the far end.

Note how the settings chosen are indicated. In the example shown, Backlight compensation is set to Off.

**Continuous autofocus** does exactly what it says, continuously adjusting the camera's focus to enhance the visual experience

Settings I Camera Control & Se	ttings	Exit
System Information	Whitebalance	Auto Manual
Call Status		
Camera Control & Settings	Whitebalance (13)	1 16
Display Settings	Exposure	Auto Manual
Ringtone & Sound Settings	Exposure (12)	1 31
Background	Backlight	OFF ON
Administrator Settings	compensation	
Restart	Continuous autofocus	OFF ON

#### Display Settings

#### The **Display settings** let you adjust:

Preferred brightness by moving the Brightness slider.

The color balance. There are four preset color settings (Cold, Neutral, Warm and your own (Custom)) available. When you select Custom, you may use the Red, Green and Blue sliders to specify your own setting.

The DVI mode can be set to automatically detect the type of video signal received, or forced to analog or digital. The DVI mode is used when the unit is connected to a PC to serve as a PC monitor.

Settings I Display Settings			Exit
System Information	Brightness (60)	0	100
Call Status			
Camera Control & Settings	Colors	Cold Neutral Warm	Custom
Display Settings	Red (50)	0	100
Ringtone & Sound Settings	Green (50)	0	100
Background			
Administrator Settings	Blue (50)	0	100
Restart	DVI Mode	Auto Digital	Analog

#### Ringtone & Sound Settings

The **Ringtone & Sound Settings** pane lets you specify:

**Keytones** on or off. When set to on you will hear a sound every time you tap a field on the Touch controller.

**Ringtone volume**. How loud your ringtone shall sound.

**Ringtone**. Select among several ringtones. You will hear a sample every time you tap a ringtone.

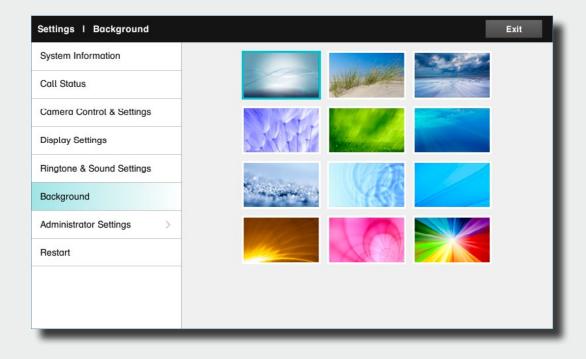
Note how the settings chosen are indicated. In the example shown, Keytones are set to Off.

	cone ne (14)	0				
Camera Control & Settings volum		0				
Display Settings Ringt						100
	one	Marbles	lce	Crystals	Polaris	
Ringtone & Sound Settings		Alert	O Dis	creet	Fantasy	
Background		🔵 Jazz	O No	rdic	Echo	
Administrator Settings		Rhythmic				
Restart						

#### Background

The background image on the touch screen controller can be changed.

Tap one of the small images to use it as background image.



#### Administrator Settings–Date, Time & Location

The **Date, Time & Location** settings let you specify:

- 24h or 12h time format.
- Your preferred date format.
- Your preferred time zone.
- Whether date and time shall be set automatically or manually.

Note how the settings chosen are indicated. In the example shown, Time format is set to 24h.

Back I Administrator Settings	I Date, Time & Location	Exit
Date, Time & Location	Time format	24h 12h
Call Settings		
Network Settings	Date format	dd.mm.yy mm.dd.yy yy.mm.dd
EMC Resilience Mode	Time zone	- GMT+01:00 (Amsterdam, Berlin, E +
Reset	NTP mode	Auto Manual Off
	NTP server	1.ntp.tandberg.com

#### Administrator Settings–Call Settings

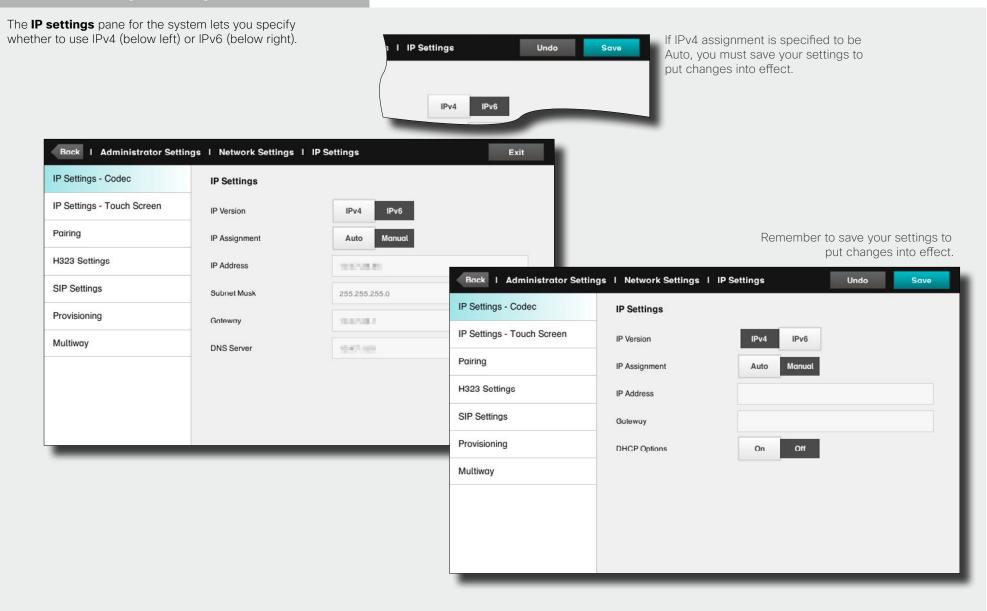
The **Call Settings** pane lets you specify:

- Auto Answer On or Off. If you set this to On, the system will respond automatically to incoming calls. Note that the microphone wil NOT be muted. If risk of eavesdropping is an issue, you may want to set this setting to Off.
- Auto Answer Delay. Specify the time until your system actually reponds to an incoming call.
- Default Call Rate. If your connection has limited capacity you may want to use this setting.
- Max Incoming/Outgoing Bandwidth. You may specify these separately. May come in handy if you are on an asymmetric connection.
- Default Call Protcol. Specify which protocol to use as default.

Note how the settings chosen are indicated. In the example shown, Auto Answer is set to Off.

Back I Administrator Setting	js I Call Settings		Exit
Date, Time & Location	Auto Answer	OFF ON	
Call Settings	Auto Answer Delay	- 0s +	
Network Settings	Allo Allswei Delay	03 -	
EMC Resilience Mode	Call Rate		
Reset	Default Call Rate	- 1152 +	
	Max Incoming Bandwidth	- 6000 +	
	Max Outgoing Bandwidth	- 6000 +	
	Default Call Protocol	H323 Sip	

Administrator settings-IP settings



#### Administrator Settings–H.323 Settings

The **H.323 Settings** pane lets you specify:

- An H.323 alias.
- Your **H.323** id.
- Gatekeeper discovery (Manual or Automatic).
- The **Gatekeeper address** must be specified by you if discovery has been set to manual.
- Authentication mode On or Off. If set to On, the video system will send Login name and Password to the Gatekeeper for authentication.

In addition there are:

 Two fields to enter Login name and Password. The alphanumeric keyboard will appear whenever needed.

Be sure to:

• Tap **Save** to put changes into effect.

Back I Administrator Setting	s I Network Settings I H32	3 Settings Exit
IP Settings	H323 number	180014
H323 Settings	H323 id	phage and Physics are
SIP Settings	Gatekeeper discovery	Auto Manual
Provisioning	Gatekeeper address	NAMES
Multiway		
	Authentication mode	OFF ON
	Login name	
	Password	

#### Administrator Settings–SIP Settings

The **SIP settings** pane lets you specify:

- Your **URI**.
- The Default transport layer, this can be set to TCP, UDP, TLS or Auto.
- The Proxy type can be set to Standard, Alcatel, Avaya, Cisco, Microsoft, Nortel, Experimental, Siemens.

The experimental setting is for testing purposes.

- **Outbound** is not used in this version.
- Proxy discovery can automatic or manual. In the case of manual the proxy address must be specified by you.
- Login name and Password is required by the VCS.

Be sure to:

• Tap **Save** to put settings into effect.

Back I Administrator	Settings I Network Settings	I SIP Settings			Exit
IP Settings	URI	100.000	017-00-0		
H323 Settings	Default transport	тср	UDP	TLS	Auto
SIP Settings					
Provisioning	Proxy type	-	Stand	lard	+
Multiway	Proxy discovery	Auto	Manual		
	Proxy address	10.0000			
	Login name				
	Password				
			_	_	_

#### Administrator Settings–Provisioning

Provisioning connects you to Callway or VCS. When either of these were ordered and received from Cisco you should also have obtained the necessary information and codes. Just follow the wizard.

IP Settings	Provisioning Wizard	Start	1	
1323 Settings				
SIP Settings				Configure Your TelePrecence Unit
Provisioning				Select infrastructure:
Aultiway				Cisco VCS
				Claco Collwoy Cancel Next
			1	





Administrator Settings–Multiway Settings

The **Multiway settings** pane lets you specify the address to the Multiway server.

Back I Administrator Settin	gs I Network Settings I Multiway	Exit
IP Settings	Multiway Settings	
H323 Settings	Multiway Address	
SIP Settings		
Provisioning		
Multiway		

#### Administrator Settings–EMC Resilience Mode

If the Touch controller is used in environments with considerable amounts of electromagnetic noise present, you may experience an appearance of false signals—as if someone tapped the Touch controller when nobody obviously did so.

To cope with this you may set the **EMC Resilience Mode** to **On**. You must then press and hold for a little while, rather than just tap, in order to make the system aware of your tapping. This will avoid the appearance of false signals.

As long as the system is used in environments without consideable amounts of electromagnetic noise, the setting should be set to Off (as shown).

# Back I Administrator Settings I EMC Resilience Mode Exit Date, Time & Location EMC Resilience Mode: OFF ON Call Settings > EMC Resilience Mode: OFF ON EMC Resilience Mode Reset Image: Comparison of the set of the se

#### Administrator Settings–Factory Reset

You may want to reset your video system. Note that you will loose all configurations, the call history and your local list of contacts. Release keys and options installed will be retained.

Back I Administrator Setting	ıs I Reset	Exit	
Date, Time & Location	Factory Reset	Factory Reset	
Call Settings	A factory reset will reset all your se	ttings	
Network Settings	,,		
EMC Resilience Mode			
Reset			



# **Chapter 5** The web interface

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#### Entering the web interface

Key in the IP address of your EX90 in your browser to access its web interface. A detailed description of the options available can be found in the Administrator guide for this product. The Administrator guide is available separately for download.

h. Diagnostics	% Configuration 🔒 Confe	erence Control 🔇	) Maintenance	
System Info				\$
the Reporterio	ingi 100	H323		
System name:	Description Classes (16)	Number:	10010	
Software version:	TC4.2.0.259927	ID:	phones a fight streams	
Product	EX90	Gatekeeper:	Dense Startig	
Module serial number:	2.4000 BB	Status:	Registered	
P address:	NUMBER OF STREET, STRE	SIP		
MAC address:	period and second second	SIF		
/alid release key:	Yes	Address:	manufacture and programs	
nstalled options:	MultiSite, PremiumResolution	Proxy:		
		Status: Registere	ed	
Login Info				\$
_ast successful login:	Thu Jul 7 15:54:09 2011	Unsuccessful logi	in attempts since last logon: 0	
Password expires in:	Never			
Security				*
Strong security mode:	Disabled			

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