



LIP-9000 Series IP Phone

User Guide

Please read this user guide carefully before operating your phone. Retain it for future reference.

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Revision History

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1.1	August 27, 2014	General update
1.2	September 2, 2014	Adapter specification update
1.3	December 12, 2014	Edited Using Station Speed Dial
1.4	January 15, 2015	Added iPECS system and its related features
1.5	February 9, 2015	General edits and updates
1.6	August 03, 2015	Applied new CI and general updates
1.7	March 11, 2016	Add the LIP-9048 DSS, System character entry chart
1.8	July 27, 2017	Add new LIP Phone and General update

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Before Use

About this Guide

This guide is intended for users of an LIP-9002, LIP-9008/08G, LIP-9010, LIP-9020, LIP-9030 and LIP-9040 iPECS IP phone. The guide provides user-related information.

Introduction of the Document

This guide explains how to install and correctly use LIP-9002, LIP-9008/08G, LIP-9010, LIP-9020, LIP-9030 and LIP-9040 Phones. Product figures and screen images used in this guide may be changed without notice for quality improvement.

Explanation of Symbol or Word

The following are symbols used in this guide. Information presented with these symbols must be observed for the correct use of your Phone.



Caution!

This mark warns of a situation in which light injury or product damage (hardware, software or data damage) may occur if the instructions are not followed.

NOTE

A note provides additional explanation, emphasis on important information or reference for related information, which is required for the correct use of the phone.

Chapter 1. Introduction

1.1 General

Your telephone is connected to an advanced-technology, highly versatile, fully featured telecom system designed to make office communications easy and productive.

Employing state-of-the-art Voice over Internet Protocol (VoIP) technology, voice and data converge on a single IP packet network. Because each iPECS Phone is an IP appliance, it can be moved easily throughout the office wherever there is a LAN connection and maintain normal operation.

1.2 Feature Information

We have taken every effort to make this user guide simple and straightforward. The guide starts with the simpler operations of the iPECS Phone Speakerphone, moves on to receiving and placing calls, and then to more advanced features.

- Each section includes a brief and basic description of each feature and step-by-step operation instructions.
- The operations shown in this guide use the System's base default Numbering Plan.
- Your specific Numbering Plan may be different. Some features may not be available for you to access or may be subject to certain limitations based on the set-up of the System. **Please consult with your System Administrator for further information.**

NOTE

Under certain operating conditions, this equipment may not be able to make emergency calls. **Alternative arrangements should be made for access to emergency services.**

1.3 Entering Station Program Data Information

A special code set is available for iPECS Phone users to assign certain attributes such as Authorization Codes (Passwords). After entering the User Program mode, you dial the codes to select the attribute and setting. Once selected, the setting is saved.

A list of the User Program codes, the feature/function and inputs required are available from your system administrator. (See “A.1 Extension User Program Code Table”.)

1.4 Feature Groupings

Every effort has been taken to divide the features into a logical and consistent sequence so that features can be quickly located.

Features have been divided into groups, *Receiving Calls*, *Placing Calls*, etc. Within each group, features are arranged according to the difficulty of operation and frequency of use.

1.5 iPECS LIP-9000 Phone Description

The iPECS LIP-9000 series phones incorporate the latest in VoIP technology and user interface to provide you with a cost effective, simple to use, productive communications tool.

Each LIP-9000 phone includes an LCD, fixed and flexible buttons with LEDs, Navigation keys, and full-duplex speakerphone. As shown in the layouts that follow the size of the LCD, number of flexible buttons and softkeys (available with the LIP-9008/08G, LIP-9020, LIP-9030 and LIP-9040 only) varies for each model. (For more information, see C.1 LIP-9000 Series Model Specification”.)

- The LIP-9002 includes a 2-line 128 by 32 dot matrix graphic LCD and 4 flexible buttons.
- The LIP-9008/8G include a 4-line 128 by 48 dot matrix graphic LCD, 8 flexible buttons and 3 softkeys.
- The LIP-9010 includes a 3-line 320 by 48 dot graphic LCD and 5 flexible buttons.
- The LIP-9020 includes a 4-line 320 by 80 dot graphic LCD, 10 flexible buttons and 3 softkeys.
- The LIP-9030 includes a 6-line 320 by 112 dot graphic LCD, 8 flexible buttons and 3 softkeys.
- The LIP-9040 includes an 8-line 320 by 144 dot graphic LCD, 12

flexible buttons and 3 softkeys.

NOTE

Features and functions of your iPECS are accessed using the **Fixed** or **Flexible buttons**, **Softkeys** or **dial codes** entered from the dial pad.

In the remainder of this User Guide, the **Fixed** or **Flexible buttons** are shown with a box surrounding the **BUTTON** designation while **Softkey** menu selections are shown with a double underline.

1.5.1 Phone Layout and Functions

1.5.1.1 Phone Layout

The figures below present line drawings of the front of each LIP-9000 series phone identifying major elements of the user interface.

As shown, the layouts of the LIP-9002, LIP-9008/08G, LIP-9010, LIP-9020, LIP-9030 and LIP-9040 are slightly different.

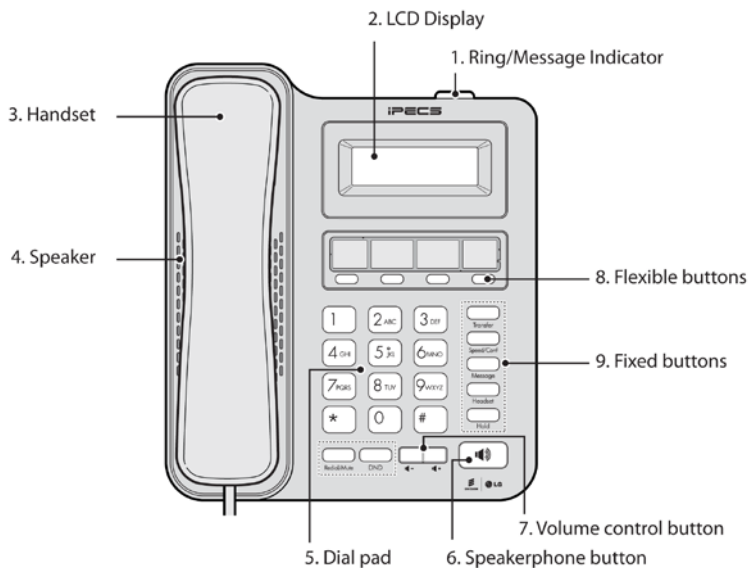


Figure 1: LIP-9002 Front

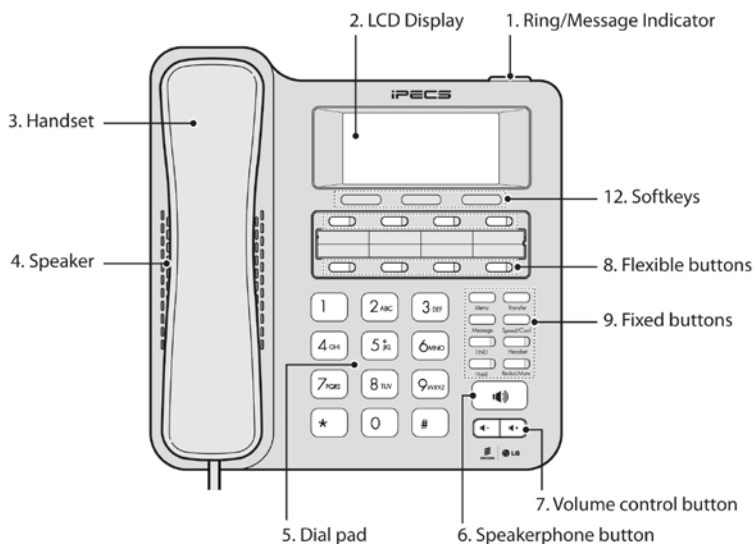


Figure 2: LIP-9008/08G Front

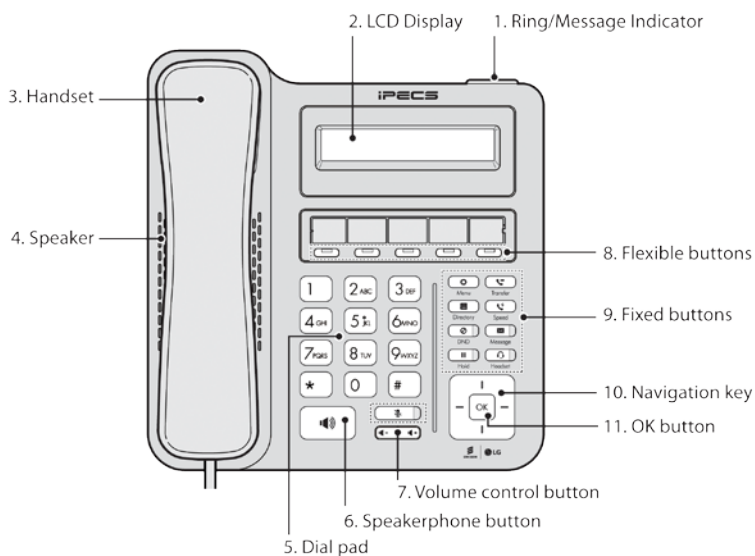


Figure 3: LIP-9010 Front

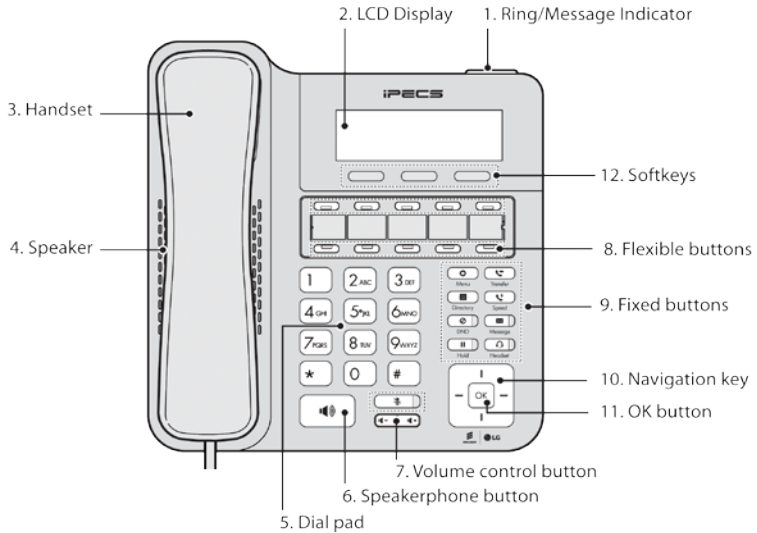


Figure 4: LIP-9020 Front

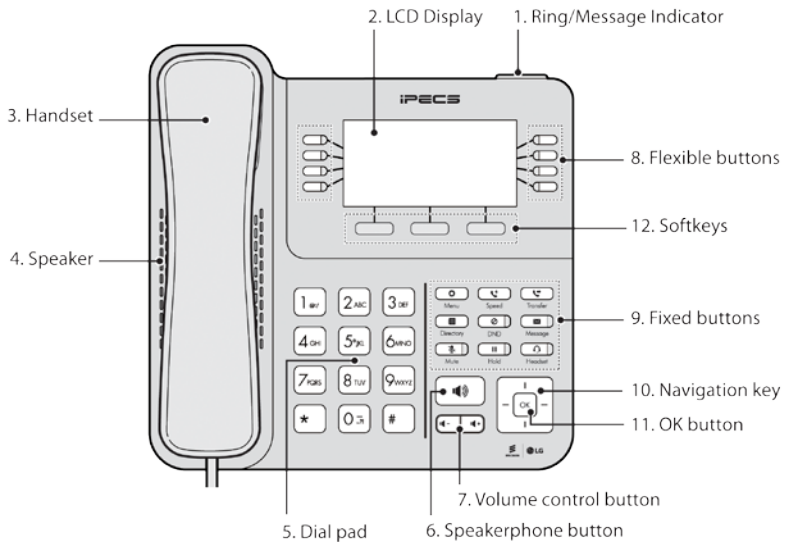


Figure 5: LIP-9030 Front

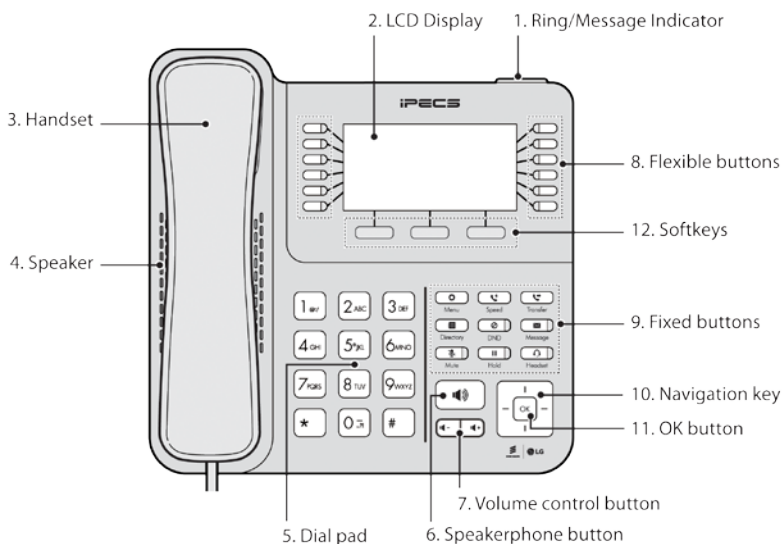


Figure 6: LIP-9040 Front

1.5.1.2 Functions










Below is a brief description of the elements called out in the above LIP-9000 series Phone diagrams.

1. **Ring/Message Indicator:** Flashes when receiving a new call or you have a new message waiting.
2. **LCD Display:** Displays your phone's status, dialing directories, and text message information.
3. **Handset:** Use to answer a call using the handset.
4. **Speaker:** Delivers ringing and other signals, and lets you hear the caller's voice in speakerphone mode.
5. **Dial pad buttons:** Use to dial a number, select a menu item, or input a value.
6. **Speakerphone button:** Toggles the IP phone speakerphone on and off. The button illuminates when the speakerphone is active or the phone is in menu mode.
7. **Volume control button:** Use to adjust Ring, Headset, Handset, and Speaker volume.

8. Flexible buttons: Assigned as Line or feature access button.

- LIP-9002 has 4-flexible buttons.
- LIP-9008/08G have 8-flexible buttons.
- LIP-9010 has 5-flexible buttons.
- LIP-9020 has 10-flexible buttons.
- LIP-9030 has 8-flexible buttons with 3 pages, total 24 buttons.
- LIP-9040 has 12-flexible buttons with 3 pages, total 36 buttons.

9. Fixed buttons

-  **Menu button:** Accesses the menu for display and changes to the IP Phone configuration. (except LIP-9002)
-  **Transfer (PGM) button:** Transfers the current active call. The button also accesses the User Program (PGM) menu or switches the dial pad input mode (ABC, abc, or 123). The dial pad mode displays in the upper-right corner.
-  **Directory button:** Accesses your private or public directory for speed dialing. (except LIP-9002 and LIP-9008/08G)
-  **Speed button:** Use to assign your speed dial numbers.
 - For LIP-9002 and LIP-9008/08G, this is used as the **CONF** button during the call.
-  **Message button:** When the MWI LED indicates you have a message, use to access your Voice Mailbox.
-  **DND (Do Not Disturb) button:** Use to activate DND so that your phone will not ring. This button also deletes the last character of an input in the menu mode.
-  **Headset button:** When using a headset, this button toggles the headset state. When the headset is active, the button LED illuminates red and the Headset Icon will be displayed for LIP-9002.
-  **Hold (Save) button:** Use to place a call on Hold. Also, use to access a held call. In menu mode, it saves your inputs.
-  **Mute button:** Toggles audio from the microphone to the connected party on and off.
 - For LIP-9002 and LIP-9008/08G, this is used as the **REDIAL** button in the idle state.

10. Navigation key (except LIP-9002 and LIP-9008/08G)

- **Left:** In LIP-9020, LIP-9030, and LIP-9040 models, use to select the previous group of softkeys when ◀ appears in the bottom-left of the LCD. In LIP-9010, use to go to previous step or select 'no' when you have a 'yes' or 'no' choice.
- **Right:** In LIP-9020, LIP-9030, and LIP-9040 models, use to select the next group of softkeys when ▶ appears in the bottom-right of the LCD. In LIP-9010, use to access the Call Log function in idle state.
- **Up:** Scrolls through the phone's menu options upward.
- **Down:** Scrolls through the phone's menu options downward.

11. OK Key: Selects the highlighted choice when navigating through a menu. In LIP-9030 and LIP-9040, during a call, Pop-up display and call information can be toggled using "OK" button. Pop-up disappear and call information display in the top bar.

12. Softkeys: Softkeys are interactive, changing function based on the status of LIP-9008/08G, LIP-9020, LIP-9030, and LIP-9040. The LIP-9010 does not incorporate Softkeys.

1.6 LIP-9000 Installation

The LIP-9000 Phones are shipped with the LIP-9000 Phone, handset and coil cord, adjustable foot-stand, 2-meter (~6-foot) Cat 5 cable terminated in RJ-45 connectors, and the Quick Guide. An optional AC/DC adapter is available for use when the network connection does not provide power to the phone (support IEEE 802.3af PoE -Power over Ethernet-).

Several other options including Button kits, see “1.8 Button Kit Installation”, and wall mounting, see “1.7 Wall Mount”, are available.

The phone has a number of connections available including the handset and LAN connection, which are required. Connections to your desktop PC, headset and optional power adaptor are incorporated in the phone design.

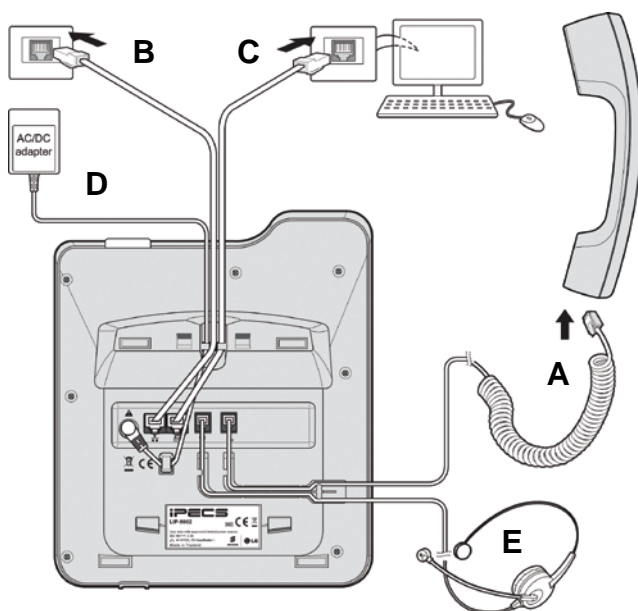


Figure 7: Installation for LIP-9002

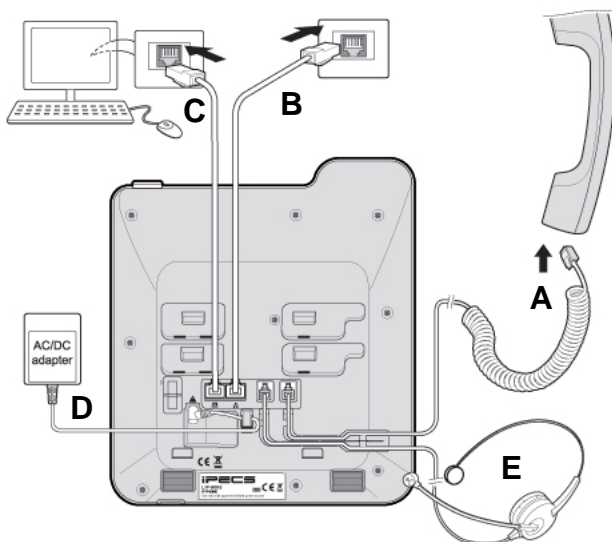


Figure 8: Installation for LIP-9008/08G

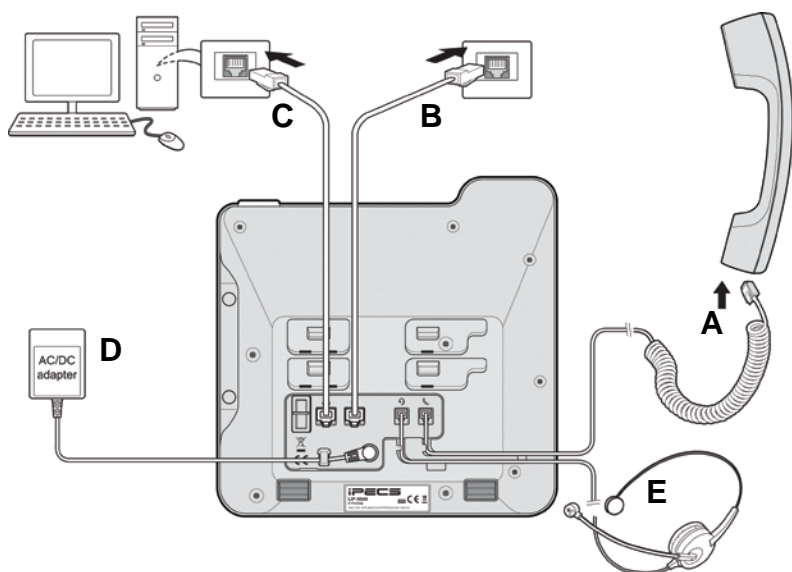


Figure 9: Installation for LIP-9000 Series

1.6.1 To install the phone

1. If needed install the Button kit assembly as described in “1.8 Button Kit Installation”.
2. Insert the connectors of the coil cord into the handset and phone handset port as shown in **A**.
3. Insert the provided Cat 5 cable into the network connection of the phone and the LAN wall jack as shown in **B**.
4. When needed, your desktop PC can be connected to the PC LAN port of the phone. Connect a Cat 5 cable (not provided) between the PC's LAN port and the PC LAN port of the LIP-9000 phone as shown in **C**.
5. If your LAN port does not support Class 2 Power over Ethernet (PoE), you must install the optional AC Power adaptor. Note do not connect the power adaptor if your port does support PoE. Connect the DC output of the adaptor into the phone and the AC plug into a standard AC power outlet as shown in **D**. Consult with your system administrator to determine if you must install the AC power adaptor. You may need to contact your local ELG-Enterprise representative for the appropriate power adaptor for your region.



Caution!

To power your phone, use either PoE or the AC adaptor, not both. Use the Ericsson-LG Enterprise approved AC power adaptor only. The AC adaptor is ordered separately.

6. A compatible headset may be connected to the Headset jack in the bottom of the phone. As shown in **E**, connect the headset plug into the headset jack. The LIP-9000 phones are compatible with several headsets. Please consult with your local Ericsson LG-Enterprise representative for a list of headsets compatible with the LIP-9000.
7. The phone includes a foot stand that can be installed to provide a 30° or 60° angle of the face of the phone. (except LIP-9002) If the phone is not wall mounted, install the foot stand at the desired angle. If wall mounting, do not install the foot stand.

NOTE

Once installation is complete, the phone may require configuration of the network parameters before becoming operational. These parameters should be modified by a trained technician only. Refer to “9.2.4 Network Configuration” for additional details.

1.7 Wall Mount

The LIP-9000 series phones can be wall mounted as needed. The following instructions describe the wall mount installation. Note the foot-stand must not be installed.

1. If installed, remove the foot-stand from the Phone and Button kit.
2. Connect all wiring to the Phone as described in “1.6 LIP-9000 Installation”. Connect the Phone side wiring only.
3. If required, install the Button kit.
4. Align the wall-mount bracket (ordered separately) over the back of the phone, then press the bracket onto the phone applying steady pressure until it clicks into place.
5. Install the Button kit wall-mount bracket if required, in the same manner as the bracket for the phone.
6. Mark and drill two 7mm holes for plastic wall anchors (not included).
7. Insert the two anchors into the holes, and insert and tighten the two screws (not included) leaving about 2.5 mm (1/8-inch) exposed.
8. Align the key holes in the bracket over the screws and slide the phone down assuring the phone is secure.
9. Remove, reverse and re-install the handset hook so that the hook catches the groove in the handset receiver.
10. Hang the handset up on the handset hook.
11. Complete all wiring connections as described in “1.6 LIP-9000 Installation”.

NOTE

It may be necessary to remove the phone and tighten or loosen the screws for a secure mounting.

1.8 Button Kit Installation

The Button kits for the LIP-9000 Series phone provide 12 or 24 additional flexible buttons. The flexible buttons on the Button Kit are used as with the flexible buttons on the phone proper and can be assigned for any of the flexible button functions. One of three Button kits may attach to an LIP-9020, LIP-9030 or LIP-9040 phone, and can be placed on your desktop or can be wall-mounted with the phone.

The available button kits are shown in Figure 10 below and described as follows.

- The **LIP-9012 DSS** has 12 flexible buttons with tri-color LED. The DSS button kit uses a paper label for the button designations.
- The **LIP-9024 DSS** has 24 flexible buttons with tri-color LED. The DSS button kit uses a paper label for the button designations.
- The **LIP-9024 LSS** has 12 flexible buttons with tri-color LED. The LSS button kit uses an LCD for the button labels and has two flexible button pages to represent 24 total flexible buttons. The two lower buttons control the page view. The page button LED will flash when there is new activity under a button on the page. You can press the page button at any time to change the flexible button page view.
- The **LIP-9048 DSS** has 48 flexible buttons with tri-color LED. The DSS uses a paper label for the button designations. Two LIP-9048 DSS can be connected to a phone.

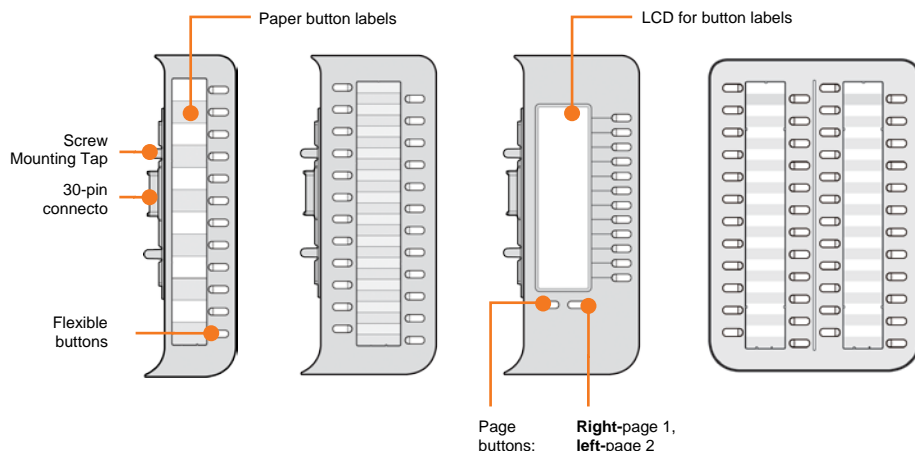


Figure 10: LIP-9012 DSS, LIP-9024 DSS, LIP-9024 LSS, LIP-9048 DSS

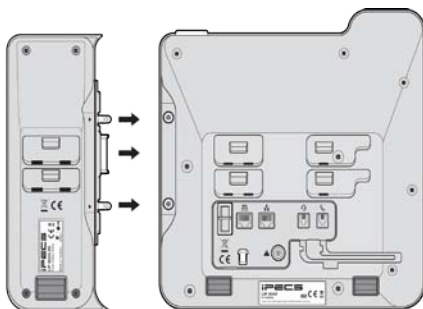


Caution!

To avoid damaging the Phone or Button kit, remove power from the phone before installing a Button kit.

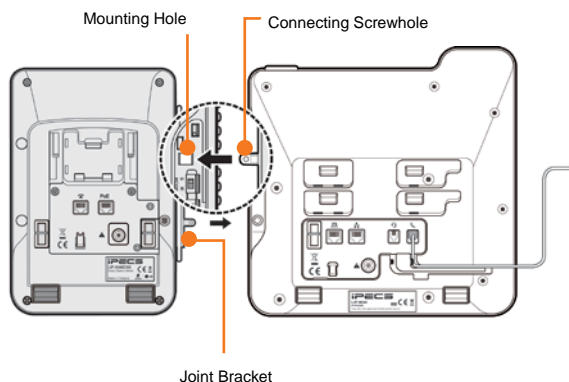
The Button kit should be installed on the phone prior to making any connections to the phone. This simplifies the installation for LIP-9012 DSS, LIP-9024 DSS, and LIP-9024 LSS. To install the button kit:

1. First, assure the phone is NOT connected to power. For convenience, you may wish to remove the handset and foot-stand; this simplifies the Button kit installation.
2. On the right side of the phone, remove the Button kit cover.
3. Align the Button kit and phone as shown in the drawing.
4. Push the Button kit into the phone until the button kit is fully engaged.
5. Insert the screws provided through the screw tabs in the Button kit and tighten the screws into the phone. Do not over-tighten.

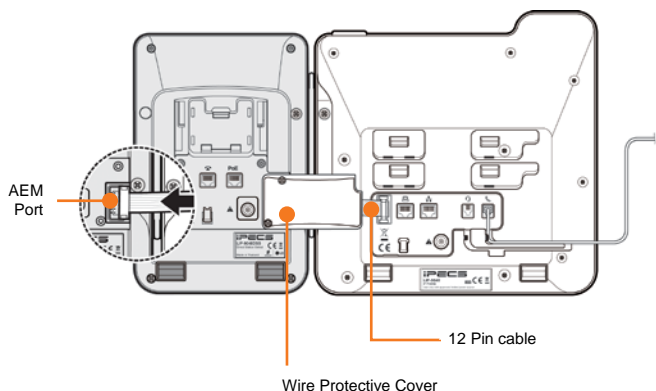


This simplifies the installation for LIP-9048 DSS. To install the button kit:

1. Set the power mode, protocol type, and PoE class in advance. Please refer to the LIP-9048DSS Quick Installation Guide.
2. Make sure that the Joint Bracket is aligned with the side of the DSS module, and insert the one side of the Joint Bracket into the mounting holes.
3. And insert the other side of the Joint Bracket into the mounting holes on the side of your phone.
4. Use the provided screws to connect the DSS module and phone firmly together.



5. At the back of the DSS module and phone, remove the rubber plug from the Accessory Expansion Module(AEM) port.
6. Plug the 12-Pin cable into the AEM port on the the DSS module and phone.
7. Place the Wire Protective Cover behind the DSS module and align the screwholes with the Wire Protective Cover screwholes on the DSS module.
8. Tighten the screw to secure the Wire Protective Cover.



1.9 EHS Adaptor

Electronic Hook Switch (EHS) is a device which electronically connects a EHS Base Set and Ericsson-LG Enterprise phone. This EHS Adaptor enables remote control with the compatible EHS Base Set and the LIP-9000 Series (except LIP-9002).

1.9.1 Compatible EHS Base Set Model List

Below are the recommended EHS Base Set models for your phone. For further information on installation see the EHS Adapter Quick Installation Guide which is packed with it.

- **Jabra (IQ Protocol):** PRO P20, PRO 925, PRO 9450
- **Plantronics (PSB Protocol):** Savi W720, Savi W740-M, CS540

NOTE

Ericsson-LG Enterprise cannot guarantee other model except the above list and this list will be updated if we have finished testing the new one anytime.

1.10 Entering Text

1.10.1 Phone Entering Text

Several features available to your phone require text entry. Station and Speed dial name assignment, and Intercom Text Messaging all require character entry.

Characters are entered by pressing the dial pad digit with the character multiple times based on the character position on the button.

For example;

the letter 'C' is the third letter on the digit '2' thus, to enter a 'C', the dial pad digit '2' would be pressed 3 times.

If you want to enter the 'C' consecutively, wait a second to be moved the cursor to the right side of 'C' or press the right key of the navigation if it has navigation keys.

You can enter upper or lower case letters, symbols, or numeric characters. The entry mode is controlled with the **TRANSFER(PGM)** button.

The entry mode is indicated in the LCD of your phone as ABC, abc, *, or 123.

- The **[DND]** button deletes the last character.
- If you are using an LIP-9008/08G, LIP-9020, LIP-9030 or LIP9040, you may use the **[DELETE]** Softkey.
- The **[TRANSFER(PGM)]** button changes the input mode (ABC, abc, *, or 123).
- If you are using an LIP-9008/08G, LIP-9020, LIP-9030 or LIP9040, you may use the **[MODE]** Softkey to change modes.

The table below maps each dial pad digit to the corresponding character, symbol and numeric entry.

NOTE

LIP-9000 series phone's Character Entry Chart (**D1: 1st Digit, D2: 2nd Digit, D3: 3rd Digit, D4: 4th Digit**)

Dial Pad Digit	Entry Mode			
	Upper Case [ABC]	Lower Case [abc]	Symbols [*]	Numeric [123]
	Button Depressions			
	D1, D2, D3, D4	D1, D2, D3, D4	D1, D2, D3, D4	D1
1	@ : /	@ : /	@ : /	1
2	A B C	a b c	\$ %	2
3	D E F	d e f	^ & _	3
4	G H I	g h i	() ?	4
5	J K L	j k l	- + /	5
6	M N O	M n o	< > =	6
7	P Q R S	p q r s	; :	7
8	T U V	t u v	' " `	8
9	W X Y Z	w x y z	{ }	9
0	. , ? !	., ? !	. , ? !	0
*	. *	. *	. *	*
#	Space (' ')	Space (' ')	# []	

Table 1: Phone Entering Text

1.10.2 System Entering Text

Below is a table when entering texts using the System Function.

NOTE

LIP-9000 series System's Character Entry Chart (**D1: 1st Digit, D2: 2nd Digit**)

This Table is available from unified s/w version 2.1.17 & 2.2.2 higher version.

Char	D1	D2	Char	D1	D2	Char	D1	D2
A	2	1	T	8	1	1	1	0
B	2	2	U	8	2	2	2	0
C	2	3	V	8	3	3	3	0
D	3	1	W	9	1	4	4	0
E	3	2	X	9	2	5	5	0
F	3	3	Y	9	3	6	6	0
G	4	1	Z	9	4	7	7	0
H	4	2	Q	1	1	8	8	0
I	4	3	Z	1	2	9	9	0
J	5	1	.	1	3	0	0	0
K	5	2	SPC	*	1			
L	5	3	:	*	2			
M	6	1	,	*	3			
N	6	2	(#	1			
O	6	3)	#	2			
P	7	1	-	#	3			
Q	7	2	*	0	*			
R	7	3						
S	7	4						

Table 2: System Entering Text Type 1

This Table is available from unified s/w version 2.1.17 & 2.2.2 lower version.

Char	D1	D2	Char	D1	D2	Char	D1	D2
A	2	1	T	8	1	1	1	0
B	2	2	U	8	2	2	2	0
C	2	3	V	8	3	3	3	0
D	3	1	W	9	1	4	4	0
E	3	2	X	9	2	5	5	0
F	3	3	Y	9	3	6	6	0
G	4	1	Z	9	#	7	7	0
H	4	2	Q	1	1	8	8	0
I	4	3	Z	1	2	9	9	0
J	5	1	.	1	3	0	0	0
K	5	2	SPC	*	1			
L	5	3	:	*	2			
M	6	1	,	*	3			
N	6	2	(#	1			
O	6	3)	#	2			
P	7	1	-	#	3			
Q	7	*	*	0	*			
R	7	2						
S	7	3						

Table 3: System Entering Text Type 2

Chapter 2. Using the LCD & Speakerphone

2.1 Using the LCD

As shown in '2.1.1 LIP-9000 Series Phone Displays', each LIP-9000 model has a different display. The top line of each display shows various icons as shown in the Icons chart below.

The LIP-9002 has a 2-line graphic LCD displaying 24 characters each. While idle, the second line displays the date, time and station number. It will also provide called/calling name/number display, feature status and a menu to guide you through User Program selections.

The LIP-9008/08G have a 4-line display. The first three lines and softkey menu are similar to the LIP-9020, but its softkey menu display is slightly different. LIP-9008/8G softkeys menu consist of one symbol and two functions.

The LIP-9010 has a 3-line display. While idle, the second line displays the station name or number and the third displays the date and time. These two lines are used to provide call status and feature information while the phone is in use.

The LIP-9020 display has a 4-line display. The first three lines are the same as the LIP-9010. The fourth line displays the interactive softkey menu to guide you through feature access and *User Program selections*. The display indicates the function for each softkey based on the status of your phone. In some cases, there may be more than three available softkey functions. In this case, a right arrow displays on the right side of the menu line. The right Navigation key scrolls to the next set of three functions, and the left key moves to the previous menu choices.

The LIP-9030 and LIP-9040 have a 6-line and 8-line Liquid Crystal Display (LCD), respectively.

- The upper section, which consists of a single line, displays station number, various icons, time and flexible button page number.

- The middle section displays the label for each flexible button or, for the LIP-9040, a monthly calendar displays when the CALENDR Softkey is pressed. This section of the display also provides the called or calling name or number display, feature status, etc.
- The lower section, which consists of a single line, is the interactive menu of three softkeys described in the previous paragraph.

2.1.1 LIP-9000 Series Phone Displays

Below is a figure of Display layout of each LIP-phone.

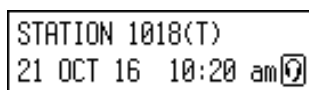


Figure 11: LIP-9002 Phone Display



Figure 12: LIP-9008/08G Phone Display

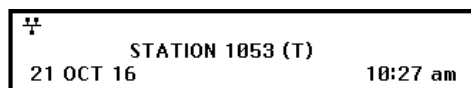


Figure 13: LIP-9010 Phone Display



Figure 14: LIP-9020 Phone Display



Figure 15: LIP-9030 Phone Display

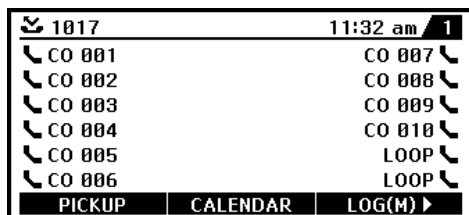
















Figure 16: LIP-9040 Phone Display









2.1.2 Upper line and Flexible button icons

Below is a chart list of each icons and their meaning.

2.1.2.1 Upper line Icons

Icon	Meaning
	The Mute icon indicates the microphone is On and Off. (LIP-9002 only)
	The Headset icon indicates headset state, when shown the headset is active. (LIP-9002 only)
	The Wake-Up icon indicates one or more alarms are saved. (LIP-9002 only)
	This icon is used to move another softkeys menu. (LIP-9008/08G only)
	This icon is used to select or save the current menu. (LIP-9008/08G only)
	Message icon, indicates one or more new messages. (LIP-9008/08G, LIP-9010 and LIP-9020 only)
	Forward icon, indicates calls to your station are forwarded. (LIP-9010 and LIP-9020 only)
	Wake Up icon indicates one or more alarms are saved.
	Missed call icon, indicates one or more missed calls.
	LAN icon indicates the status of the LAN connection to the IP Phone. If the network speed is connected with Gigabit, the Giga-Lan() will be displayed.
	Call icon indicates call information during a call. (LIP-9030 & LIP-9040 only)
	EHS icon is displayed when EHSA is installed. If there is an error between EHSA and EHS headset, it will be changed to the EHS OFF icon()

2.1.2.2 Flexible button icons (LIP-9030 & LIP-9040)

Icon	Meaning
-	Not Assigned
	Outside line button
	Station button
	Feature or function button
	On-Line Presence of UCS Client
	Off-Line Presence of UCS Client
	Away Presence of UCS Client
	Busy Presence of UCS Client
	DND Presence of UCS Client

2.2 Using the Speakerphone

Activate the iPECS Speakerphone at any time (except for Paging) in place of lifting the handset to receive or place calls.

Additionally, you may switch between the handset and Speakerphone during a call. By keeping the handset Off-hook, the **Group Listen** feature is activated, which provides incoming audio over the speaker with outgoing audio from the handset. This permits a local 'group' to listen to both sides of the conversation without interfering with the conversation.

While in a conversation using the Speakerphone, **Mute** the microphone using the **MUTE** button. When Mute is active, the **MUTE** button LED will be illuminated. To turn off Mute, press the **MUTE** button again.

With **Auto Speaker Select**, activating or accessing a feature, or placing a call by pressing a flexible button will activate the Speakerphone automatically.

When using a Headset, the **SPEAKER** button controls the ON/OFF-hook state for the phone.

To use the Speakerphone to answer or place a call:

- Press the **SPEAKER** button.
- The phone goes off-hook and sends audio to the speaker and from the microphone.

To control the volume of the Speakerphone or handset:

- During a call,
- Press the **VOL▲▼** button.

To mute the microphone: (Speakerphone or handset)

- During a call,
- Select the **MUTE** button.

To turn off Mute (turn the microphone ON):

- Press the **MUTE** button.
- Mute LED will be turn off.

To activate Group Listen while on an active handset call:

- Press the **SPEAKER** button.
- Replace the handset on the Station.

Chapter 3. Receiving Calls

3.1 Answering a Call While Idle

There are three basic types of incoming calls; internal/external ringing calls, **Intercom Voice Announce calls**, and *Hold* recalls.

Your phone may be assigned **Ringing Line Preference**; in this case, calls that ring are answered by lifting the handset. Otherwise, you must press the flashing flexible button. External calls to an iPECS Phone will appear under the outside line or line group button. For external calls, **Delay Ring** may be assigned allowing others to answer the call before the call rings at your phone.

Calls can be forwarded to your phone from another user. If providing call coverage for other users, you may also receive **Station Call Coverage** calls.

Calls placed on **Hold**, including Transfers, parked calls, etc. will recall if left on hold for too long.

ICM Voice Announce calls are answered based on the ICM Signaling mode at the receiving phone; in Hands-free (HF) mode, after the splash tone and announcement, speak normally into the microphone. In the Privacy (PV) mode, lift the handset to respond. You can assign the **ICM Signaling mode** as discussed in Chapter 10.

The LCD will display the calling number or, if available, the name of the station or outside line, **CO Line Name Display**.

To answer a call ringing at your phone:

- Lift the handset or press the flashing flexible button (as needed), the call will be connected.

To respond to an Intercom Voice Announce call:

- In **HF** mode, simply speak as normal into the microphone,
OR
- In **PV** mode, lift the handset to respond.

3.2 Responding to a Call While Busy

While you are busy on another call, you may receive a Muted Ring, Camp-On tone, or Voice-Over announcement. Muted Ring is provided over the speaker of your Phone indicating a **Call Waiting**. You also may receive **Camp On** tones, a burst of tones on top of the existing call, as an indication of another call waiting.

While busy, certain stations can activate **Voice-Over** to your phone. In this case, audio is received from both the active call and the **Voice Over** announcement at the same time.

Respond to any of these **Off-hook Signals** in one of several ways; place the existing call on **Hold** and answer the new incoming call, activate *One-time DND*, send a *Silent Text Message*, or ignore the new call.

Silent Text Message requires the phone be assigned a **TEXT MESSAGE** button to be sent the text message to the calling party. You may assign this feature to the flexible buttons on your iPECS Phone.

The Attendant or Secretary may use **Intrusion** to announce a call while you are busy.

3.3 Using Answering Machine Emulation (AME)

When your phone is allowed AME, your calls are connected to your voice mail directly, and, like a normal Answering Machine, the caller's voice is played over your speaker as it is recorded in the mailbox. Thus, you can screen the call before answering. There are two methods of notification and call screening provided, Ring or Speaker mode.

Ring mode — In the Ring mode, the AME flexible button will flash to notify you of a call. You may press the flexible button to hear the caller as the voice message is recorded.

Speaker mode — In the Speaker mode, the caller's voice is broadcast over the speaker of your iPECS Phone automatically.

Your iPECS Phone must be assigned with an AME Flex button for proper operation. AME is supported only on iPECS Phones.

To screen a call in Ring mode:

- Press the flashing **AME** button, the caller's voice is broadcast over the station speaker and stored in the voice mailbox. In the Speaker mode, broadcast is automatic.

To stop the voice broadcast and leave the caller in Voice Mail:

- Press the illuminated **SPEAKER** button.

To talk with the caller and record the conversation in Voice Mail:

- Press the **MUTE** button.

To answer the call and cancel the voice message recording:

- Press the illuminated **AME** button, the caller is connected and the Voice Mail disconnected.

3.4 Differential Ring Signals

When multiple phones in a small area ring, it can be difficult to tell which are ringing. The iPECS Phone has 16 **Ring Tones** available for differentiating one phone's ringing from another. This feature can also be used to differentiate internal and external callers. Of the 16 tones, 4 are downloaded from the system and the remaining 12 are stored in the phone's memory.

After downloading the tone from the system memory, it can be selected as the Differential Ring Tone.

To download a Ring Tone from the System:

- Press the **TRANSFER(PGM)** button.
- Dial 1 for Ring Tones.
- Dial 5 for Ring Tone download.
- Dial the phone's memory location to receive the tone (5-8).
- Dial 0-9 for the desired tone number; the selected tone is heard.
- Press the **HOLD(SAVE)** button to download the tone to your phone.

To select a Ring Tone from phone memory:

- Press the **TRANSFER(PGM)** button.
- Dial 1 for Ring Tones.
- Dial 1 for internal call ring or 2 for External call ring.
- Dial 1-16 for the desired tone; the selected tone is heard. (LIP-9002 and LIP-9008/8G : Dial 1-8)
- Press the **HOLD(SAVE)** button to complete the selection.

3.5 Answering Calls at Night

In the Night mode, **Loud Bell Control** may be used to send ring signals to external bells. You may answer these calls with **Universal Night Answer (UNA)**. iPECS Phones may be assigned a Flex button as a **UNA** button.

To answer a call ringing during night mode:

- Lift the handset.
- Dial ***567** (UNA code). The code may be different based on your system's numbering plan. Please consult with your System Administrator for further information.

3.6 Answering Calls to Other Stations

When nearby stations are ringing, you may pick-up (answer) the call. You may answer a call ringing at a specific station (**Directed Call Pick-Up**) or answer the oldest call ringing at a station in your station group (**Group Call Pick-Up**).

You may assign a flexible button with the Group Call Pick-Up code for one-touch access.

NOTE

Pick-Up will not answer calls on the ringing station's Private Line unless the line appears on your phone.

To answer a call ringing at another station:

- Lift the handset,
- Dial the Directed Call Pick-Up code ***77**. The code may be different based on your system's numbering plan. Please consult with your System Administrator for further information.
- Dial the Intercom Number of the ringing station; the call will be connected.

To answer a call ringing at a station in your group:

- Lift the handset,
- Dial ******, the Group Call Pick-Up code, the call is connected. The code may be different based on your system's numbering plan. Please consult with your System Administrator for further information.

3.7 Using Do-Not-Disturb (DND) to Block Incoming Calls

Activate Do-Not-Disturb when you wish not to be interrupted; the phone will block incoming calls. Your phone's display will show the DND status and calls route to the location configured in the system, generally your voice mail. Activate Do-Not-Disturb while ringing (One-Time DND); ringing terminates and the call is routed based on the system configuration.

When an Executive activates DND, calls forward to the defined Secretary automatically.

The Attendants and Secretary may be able to activate **DND Override** and intrude on an active call. The Attendants may also cancel DND at other stations.

To toggle DND ON and OFF:

- Press the **DND** button.

3.8 Forwarding Calls

3.8.1 Forwarding calls to another Station or Voice Mail

Incoming calls may be diverted to other resources of the system. Resources include other stations, the built-in **Voice Mail** and **External Voice Mail**. Your LCD and the LCD of the LIP phone receiving the call indicate the forward status.

Call Forward can be activated from your phone or from a different station (**Call Forward, Remote**). You may define the conditions or 'type of forward' as below:

- 0: Remote** – permits you to activate call forward from another station in the system. In this case, your station authorization code must be entered.
- 1: Unconditional** - all calls to the station, except recalls, will forward.
- 2: Busy** - Immediately forwards calls, except recalls, when the station is busy.
- 3: No Answer** - forwards calls to the station, except recalls, when the station is idle and does not answer within the No Answer timer.
- 4: Busy/No Answer** - forwards calls to the station if not answered within the No Answer timer.

- 5: Incoming CO Off-Net** – the attendant can forward calls on an outside line to a Speed Dial number. This setting is allowed by the Attendant station only.

NOTE

Calls to your Private Line forward to another station only if the receiving station has an appearance of the Private Line.

To activate Call Forward from your phone:

- Lift the handset,
- Press the FORWARD Softkey or the **DND** button.
- Dial the type of forward code 1-4.
- Dial the destination number.

To deactivate Call Forward from your phone:

- Lift the handset.
- Press the FORWARD Softkey or the **DND** button.
- Press the # button on the dial pad.

To activate Call Forward from a different phone within the System (Call Forward, Remote):

- Lift the handset.
- Press the FORWARD Softkey or the **DND** button.
- Dial 0, the Remote Call Forward code.
- Dial your Authorization code (Station number & Password). If you do not know your Password, contact your System Administrator.
- Dial the 'type of forward' code 1-4.
- Dial the destination number.

To deactivate Call Forward, Remote:

- Lift the handset.
- Press the FORWARD Softkey or the **DND** button.
- Dial 0, the Remote Call Forward code.
- Dial your Authorization code (Station number & Password).
- Press the # button.

3.8.2 Forwarding callers to a Text Message

Using an iPECS Phone, you can send a 'Text Message' to internal callers. When calling your Station, internal callers will automatically receive the selected message or you can select a message in response to an internal call, **Silent Text Message**.

There are 11 **Custom Display Messages** each up to 24 characters. Ten can be assigned by the Attendant and one assigned by you. In addition, there are ten fix Pre-Defined Text Messages; some allow auxiliary input for time, date, etc. as shown in list below.

Message 00: *your custom message*

Message 01: LUNCH RETURN AT hh:mm

Message 02: ON VACATION AT DATE mm:dd

Message 03: OUT OF OFFICE RETURN AT TIME hh:mm

Message 04: OUT OF OFFICE RETURN AT DATE mm:dd

Message 05: OUT OF OFFICE RETURN UNKNOWN

Message 06: CALL (enter up to 17 digits)

Message 07: IN OFFICE STA xxxx

Message 08: IN MEETING RETURN AT TIME hh:mm

Message 09: AT HOME

Message 10: AT BRANCH OFFICE

Message 11 to 20: Attendant (system) custom messages

To activate Text Message Forward:

- Press the **TRANSFER(PGM)** button.
- Dial the User Program feature code 51. (for UCP/eMG)
- Dial the two-digit text Message code (00-20).
- Dial any auxiliary input for messages 01-04 and 06-08.
- Press the **HOLD(SAVE)** button, you will receive confirmation tone.

To cancel Text Message Forward:

- In idle state, press **FORWARD** Softkey by pressing the Navigation right key, or
- Lift the handset and press the **DND** button.
- Press the # dial pad button.

To program your Station Custom Message (00) at your station:

- Press the **TRANSFER(PGM)** button.
- Dial User Program feature code 52, (for UCP/eMG).
- Enter the message contents; up to 24 characters can be entered. Refer to '1.8.1 Phone Entering Text' for text entry details.
- Press **HOLD(SAVE)** button to save the message.

Chapter 4. Placing Calls

4.1 Internal Calls

You can place calls to other stations in the system over the Intercom. The call will ring, or for an **ICM Voice Announce** call, a splash tone will be heard.

Ring or Voice Announce is normally determined by settings at the called station but you may change this by dialing '#' after placing the call. By changing the mode, a Voice Announce call will ring or a ringing ICM call will allow Voice Announce (toggle).

You can assign a flexible button for **Direct Station Selection/Busy Lamp Field (DSS/BLF)**. The DSS/BLF button allows you to call another station with the single touch of a button. The button LED will display the other station's status (ON=busy, OFF=idle).

When you go off-hook, you may connect to another station or system resource automatically. This Prime Line Preference may be immediate or delayed, allowing you to take other actions during the delay. Otherwise, you may press another flexible button before going off-hook to override **Prime Line Preference**.

If you go off-hook and take no action, Intercom dial-tone will time-out, and after the **Howler tone** is received, your phone will be placed out-of-service in **Intercom Lock-Out**; you then must hang-up to return the phone to an idle state.

To place an Intercom call:

- Lift the handset.
- Dial the Intercom number of the desired station.
- When the call is answered or Splash tone is heard, begin speaking with the called party.

4.1.1 Using Camp-On when calling a busy station

If the called party is busy, you may activate **Camp-On**, **Callback** or, if allowed, **Voice Over** to the station. You may also use Step Call; If the called party is busy, you are in same station group such as 1010~1019, dial the next station by dialing the last digit of the Intercom number (ex., 1019, press '9').

If you are the Attendant or Secretary, you may activate **Intrusion**.

Camp-On allows you to wait off-hook for the called station to answer.

Callback allows you to hang-up, and when the busy station returns to an idle state, the system will call your Station; after you answer the callback, the system will call the previously busy station.

Voice Over allows you to make an announcement to the busy user by combining your voice with the other party connected to the busy user.

To Camp-On (wait off-hook) for a busy station:

- Press * and await answer.

To request a Callback (wait on-hook) for a busy station:

- Press the **MSG** button and hang-up.

To make a Voice Over announcement to a busy station:

- Dial #.
- After the Splash tone is heard, begin speaking.

4.1.2 Leaving a Message Wait Indication

If the called user does not answer or is in DND mode, you may leave a Message Wait indication. The called user will receive a **Message Wait** indication; the message icon will be displayed.

To activate Message Waiting:

- When calling a station that is busy or in DND mode,
- Press the **MSG** button and hang-up.

4.1.3 Leaving a Voice Mail

If the called user does not answer, you may leave a Voice message in the user's mailbox.

The called user will receive a **Message Wait** indication; the message icon will be displayed on the LCD screen.

To Leave a Voice Mail Message Waiting:

- When calling a station that does not respond, press the **MSG** button.
- Await the user's mailbox greeting.
- At the tone, leave your voice message and hang-up.

4.2 External Calls

4.2.1 Placing external (Outside Line) calls

External calls are placed on outside lines. These 'lines' are accessed either using a button on the iPECS Phone assigned as an outside line or using dial codes. Outside lines are grouped for different types of calls, local, long distance, etc. Using the **line group** code, you will be able to access any line from the group.

A flexible button on the iPECS Phone assigned as a **LOOP** button lets you access a line from a group. Refer to section 10.2 Assigning Features to Flexible Buttons for details about assigning a CO Group Access Code button.

Dial codes for access to outside lines are:

- Individual outside line access: 88 + Line number
- Outside Line Group access: 8 + Group number
- Any outside Line access: 9

When dialing on a line that uses pulse style signals, you may activate **Dial Pulse to Tone Switchover** changing to DTMF dialing by using the '*' button, the signaling changes to DTMF. This will allow you to use baking services, etc. The default setting value is DTMF. This feature available on outside lines configured with Pulse dialing only.

When placing a point-to-point IP call, **you must dial an IP address using the '*' button as the dot.**

If **Least Cost Routing** is set-up, the number you dial will be analyzed and the system will place the call on the least expensive route.

You may be assigned dialing and/or outside Line Access Restrictions, in which case you will receive error tone if you attempt to dial or access a restricted number or outside line. **Line** and **Station Class of Service (COS)**, which establish dialing restrictions, may vary during Day and Night operation (**Day/Night COS**).

You may need to enter an *Authorization code* before placing calls, in which case you will receive a second dial tone. Please consult with your System Administrator for further information.

Your external calls may be subject to **Call Time Restrictions**, you will receive a **Call Warning Tone** prior to disconnect.

NOTE

In the event of an emergency, assigned Emergency numbers (ex., a 911 call) may be dialed from any station in the System, regardless of a Station's dialing restrictions (COS).

To place an external call:

- Lift the handset.
- Dial the outside line or group number.
- Dial the desired number.

4.2.2 Waiting for the next available Outside line

If all the lines connected to your system are busy, you will receive an All lines Busy signal. You may request to be notified when a line is available for use.

To join a queue if the selected/dialed line is busy:

- Select the desired outside line button; when the busy notification is returned, press the **MSG** button,
- Return to an idle state by going on-hook. When the line is available, your Station will be notified (ringing).

4.2.3 Account Codes: Tracking External calls for billing

In some cases, you or your company may desire to track calls for billing or other purposes. You may enter an **Account Code**, which is output from the system in the **SMDR (Station Message Detail Recording)** report. You may have an **Account Code** flexible button, which allows one-touch entry of an Account Code. Please consult with your System Administrator for further information.

Refer to section 10.2 Assigning Features to Flexible Buttons for details about assigning an Account Code button.

To enter an Account Code before the call:

- Lift the handset,
- Press the assigned **ACCOUNT CODE** button,
- Dial the Account Code (1-12 digits),
- Press *, Intercom dial tone is heard,
- Place the outside call as normal.

To enter an Account Code during a call:

- Press the assigned **ACCOUNT CODE** button,
- Dial the Account Code (1-12 digits),
- Press *.

4.2.4 Disable dialing from your phone

You can temporarily **'Lock'** your phone by activating **Temporary COS**; the phone is not allowed to place outside calling, except emergency calls. To deactivate **Temporary COS** you must enter your Authorization code.

To activate Temporary COS:

- Press the **TRANSFER(PGM)** button.
- Dial 21 (User Program code for UCP/eMG). '21' is the Code that activate the Temp COS (Class of Service).
- Press the **HOLD(SAVE)** button.

To deactivate Temporary COS:

- Press the **TRANSFER(PGM)** button.
- Dial 22 (User Program code for UCP/eMG). '21' is the Code that deactivate the Temp COS (Class of Service).
- Dial your Authorization code (station number and password).
- Press the **HOLD(SAVE)** button.

4.2.5 Temporarily override dialing restrictions at a phone

Override the dialing restrictions at any phone by activating **Walking COS**. When active, **Walking COS** applies the Class of Service of your Authorization for a call.

Note that you must activate Walking COS for each call you make.

To activate Walking COS:

- Press the **TRANSFER(PGM)** button.
- Dial 23 (User Program code for UCP/eMG). '23' is the Code that deactivate the Walking COS (Class of Service).
- Dial your Authorization Code (station number and password).
- Place call as normal.

4.3 Using Directory

4.3.1 Using Last Number Redial (LNR)

The last number dialed on an external call is automatically saved in the **Last Number Redial (LNR)** buffer. The iPECS system will store the numbers dialed at your station for the last 15 calls.

To dial the Last Number for an external call:

- Press the **SPEED** button.
- Dial *.
- Press the Navigation or the Volume up and down buttons to select from the last 15 numbers dialed.
- Press the **SEND** Softkey or **HOLD(SAVE)** button.

4.3.2 Using and Entering Saved Number Dial

You may store the last number dialed on an external call to the **Saved Number Dial** buffer for convenient dialing later. The Saved number, which can be up to 24 digits, is stored until a new number is saved.

To place a call using Save Number Dial:

- Press the **SPEED** button.
- Dial #.

To store a number in the Save Number Dial:

- While on an outgoing external call,
- Press the **SAVE** Softkey, or press **SPEED** button twice.

4.3.3 Using System Speed Dial Numbers

The iPECS system has memory allocated for **System Speed Dial** numbers. These numbers may be divided into groups called **System Speed Zone Groups**. In this case, you may be allowed access to some numbers and not others and dialing restrictions may be invoked.

Only an Attendant or Administrator can assign **System Speed Dial** numbers.

To place a call using System Speed Dial:

- Lift the handset.
- Press the **SPEED** button.
- Dial the desired System Speed Dial bin number. **Bin numbers** should be available through your iPECS system Administrator.

4.3.4 Using Station Speed Dial Numbers

The iPECS system provides **Station Speed Dial** numbers; telephone numbers you commonly dial.

The number of entries in this Private Directory may vary but is typically 100 accessed by bin numbers (000 – 099).

Contact your system Administrator for details. These numbers, which are entered at your station, may include several 'special' instructions.

Special instructions and the corresponding button are:

- **PAUSE** will insert a momentary pause in the dialing.
- **FLASH** as the 1st digit will activate dial tone detect.
- **FLASH** not as the 1st digit will generate a flash on the outside line.
- **MSG** as the 1st digit sends remaining digits in ISDN Keypad Facility messages.
- ****** as the 1st digit disables display of the stored number.
- ****** not as the 1st digit will send remaining digits as DTMF; converting Dial Pulses to the appropriate tones. Available on outside lines configured with Pulse dialing only.

When entering a **Speed Dial**, a 16-character name may be associated with the number for the Dial by Name directory. Refer to "9.2.1.1 Station Name Program" for details on entering your name in the directory.

To place a call using Station Speed Dial:

- Press the **SPEED** button.
- Dial the desired Station Speed Dial bin number,
Or
- Press the **DIR** button.
- Choose 1 for Private Directory.
- Select from the list, or Dial by Name.

To enter a Station Speed Dial number with outside Line and Name:

- Press the **TRANSFER(PGM)** button
- Press the **SPEED** button.
- Dial the desired Station Speed Dial number.
- Select or dial the outside line or group number.
- Dial the telephone number to be stored.
- Press the **HOLD(SAVE)** button, or **OK** button.
- Enter a name up to 20 characters, if desired. For details on character entries, see "1.8.1 Phone Entering Text"
- Press the **HOLD(SAVE)** button, or **OK** button.

To assign a Station Speed Dial directly to a flexible button (LIP-9020, LIP-9030 and LIP-9040):

- Press the **TRANSFER(PGM)** button.
- Press the desired flexible button.
- Select the **TEL NUM** Softkey.
- Select or dial the outside line or group.
- Dial the desired number.
- Press the **HOLD(SAVE)** button.
- Enter a name for Dial-by-Name access. For details on character entries see, "1.8.1 Phone Entering Text".
- Press the **HOLD(SAVE)** button.

4.3.5 Using Dial by Name and Entering Your Name

Dial by Name may be employed in three different Directories, the Private directory (Station Speed dial), Public Directory (System Speed dial), or Intercom Directory (Station Name).

NOTE

To allow others to contact you via the Intercom directory, you must enter a name for your station (up to 20 characters).

To place a call using Dial by Name:

- Press the **DIR** button or press the **SPEED** button twice,
- Dial the desired directory,
 - 1: Private directory,
 - 2: Public directory, or
 - 3: Intercom Directory,
- The LCD will display the names in alphabetical order.
- Scroll using the Navigation up/down keys, or enter search characters. Press the dial pad until the matched name displayed on the LCD screen. Refer to the “1.8.2 System Entering Text” to enter text from the dial pad.
- Press the **HOLD(SAVE)** button to place the call.

To enter your station user name:

- Press the **TRANSFER(PGM)** button.
- Dial 74 the Station Name registration code, for UCP/eMG). '74' is the Code that access the registration of the Station Name.
- Enter the Name, up to 20 characters. Refer to the “1.8.1 Phone Entering Text” to enter text.
- The name may also be configured under the Phone menu. Refer to “9.2.1.1 Station Name Program” for details.

4.3.6 Using Automatic Called Number Redial (ACNR)

When making an external call and a busy signal is received, Automatic Called Number Redial (ACNR) will retry the number until the call is connected, the feature is cancelled, or the maximum number of retries is attempted.

For each retry, the system will activate your speaker then place the call with the microphone muted. When the remote end answers, you must select the **MUTE** button, or lift the handset.

Either of these actions cancels the ACNR request as well as connects you to the remote party.

To set up ACNR, while on an outgoing call:

- Use the Navigation button to display the next Softkey menu and select the ACNR Softkey, (In case of LIP-9002 and LIP-9010, use the programmed **REDIAL** flexible button instead of the ACNR Softkey.)
- Hang-up the handset.
- The Station, try to make a call using ANCR after few seconds later.

To cancel the ACNR request:

- Press the ACNR STOP Softkey.
- If you are using LIP-9002 and LIP-9010, use the programmed **REDIAL** flexible button to cancel an active ACNR request.

Chapter 5. Call Handling

5.1 Call Transfer: Sending a call to a different destination

You can send an active call to another station or other resource of the system, **Call Transfer**. You can screen the transfer with the receiving party (**Screened Call Transfer**) or complete the transfer without screening (**Unscreened Call Transfer**).

Transferred calls, internal or external, are placed in **Transfer Hold**. These calls will receive Music on Hold (*MOH*) and will recall if not answered in a timely manner.

If an **Unscreened Transfer** encounters an error or DND, it may immediately recall at your Station.

DSS/BLF buttons may be employed to transfer calls.

To Transfer an active call:

- Press the **TRANSFER(PGM)** button.
- Call the party to receive the transfer. Call the party by pressing the Station number to receive the call transfer.
 - Unscreened Call Transfer- Hang-up.
 - Screened Call Transfer– When your call is answered or Splash tone is heard, announce the call then hang-up.

5.2 Call Hold: Placing a call in a waiting state

You may place an active call in one of several holding states. In System Hold, other non-restricted stations may pick-up the call. In Exclusive Hold, only the holding station may pick-up the call.

The system is assigned a preferred hold type (System or Exclusive). You may override this **Hold Preference** by pressing the **HOLD(SAVE)** button twice.

The LEDs for outside line buttons flash at distinctive rates for the holding station and other iPECS Phone users.

There are also user operations such as pressing a **DSS/BLF** button that will place a call in Automatic Hold.

Calls will remain in the held state for a period then you will receive a recall. This **Hold Recall** is provided with a different ring signal. If not answered in a timely manner, the Attendant will receive **Attendant Hold Recall**.

To place a call on Hold:

- Press the **HOLD(SAVE)** button

5.3 Broker Call: Switching between two calls

You may switch between the active call and a call on *Hold*, placing the active call on Hold acting as a broker between two or more parties (**Broker Call**).

iPECS Phone users may 'broker' for multiple calls up to the number of outside line (Flexible Buttons) buttons on the phone. A flexible button on the iPECS Phone assigned as a U-LOOP button lets you access a line placing external (Outside Line) calls.

Refer to section [*10.2 Assigning Features to Flexible Buttons*](#) for details about assigning a U-LOOP button. Please consult with your System Administrator for further information.

To switch between two calls (Broker Call):

- Press the desired outside line button. (in the Flexible button)

5.4 Joining Multiple People in a Conference

You can establish a **Conference** with up to 3 parties, or when your system is equipped with the Conference module, 32 parties can be joined in a conference. **Check with your system administrator to determine if you have a Conference module.** The other parties in the **Conference** may be internal or external.

A **Conference** can be placed on Hold and is subject to *Hold Recall*.

You may also use the Conference operation to join two external parties in a private conversation. This is an **Unsupervised Conference**, which is not subject to the normal **Hold Recall** operation.

To establish a Conference:

- Establish call with one of the desired conference parties.
- When called party answer the call, select the CONF Softkey or, if you are using LIP-9002 and LIP-9010, use the programmed CONF flexible button.
- Establish call with another conference party.
- Select the CONF Softkey.
- Repeat the above steps for additional parties.
- Select the CONF Softkey again to establish the conference.

To place a Conference on Hold:

- Press the HOLD(SAVE) button.

To retrieve the Conference from Hold:

- Select the CONF Softkey.

To establish an Unsupervised Conference:

- Establish conference with two external parties.
- Select the CONF Softkey.
- Hang-up the handset.

To retrieve an Unsupervised Conference:

- Lift the handset.
- Select the CONF Softkey.

5.4.1 Setting up a Conference Room

In addition to establishing an ad hoc Conference, up to 9 **Conference Rooms** can be set up, letting up to 32 parties converse when using a Conference module. When setting up a Conference Room, a password can be designated for invited parties (internal and external parties) to use for accessing the established Conference Room.

To set-up a Conference Room:

- Press the TRANSFER(PGM) button.
- Dial 53 to create a Conference Room, (for UCP/eMG). '53' is the Code that access the Active Conference Room.
- Dial the desired Conference Room number (1-9).
- To assign a password for the Conference Room, enter the password (up

to 5 digits).

- Press the **HOLD(SAVE)** button to establish the Room.

To join a Conference Room:

- Lift the handset.
- Dial *59, (Conference Room entry code for UCP/eMG). '*59' is the Code that access the Active Conference Room.
- Dial the Conference Room Number (1-9).
- Dial the Conference Room password.

To delete a Conference Room:

- Press the **TRANSFER(PGM)** button.
- Dial 54 (Conference Room delete code for UCP/eMG). '54' is the Code that delete a Conference Room.
- Dial the Conference Room number (1-9).
- Dial the Conference Room password.
- Press the **HOLD(SAVE)** button to delete the Conference Room.

5.5 Call Park: Placing a call on Hold to Page

You may transfer an active outside call to a special holding location (Park Orbit), which can be accessed easily from any station in the system. Typically, this feature is used with *Paging* to notify the desired user of a parked call.

Parked calls are subject to *Hold Recall* after the Call Park timer. Please consult with your System Administrator for further information.

To park an active external call:

- Press the **TRANSFER(PGM)** button.
- Dial the Park Orbit number. (eMG80: #601~#619 / eMG800 (UCP) #601~#800).
- Return to idle.

To retrieve a parked call:

- Lift the handset.
- Dial the Park Orbit number.

5.6 Two-Way Record: Recording a call

You may record an active external conversation in your *Voice Mail Box*.

To activate Two-Way Record while on an outside call:

- Use the Navigation button to display the next Softkey menu and select the RECORD Softkey, a record warning tone may be heard and recording starts. For the LIP-9002 and LIP-9010, a RECORD flexible button is required to activate the Two-way Record feature.

To stop Two-Way Record:

- Use the Navigation button to display the next menu of softkeys, and select the RECORD Softkey,
or,
• Hang-up the handset.

Chapter 6. Send & Retrieve Messages

6.1 Responding to a Station Message Waiting Indication

Another station can leave a Station **Message Waiting** indication (MWI) to request a callback when you do not answer or your phone is in the *DND* mode. The message icon will display on your LCD screen. If programmed, a flashing MSG LED on the iPECS Phone also indicates when there is a Message Waiting. As a further notification, you may receive a periodic **Message Wait Reminder Tone**. You may review and delete messages as well as respond with a callback.


To review your Station messages:

- Press the **MSG** button, the LCD shows the Message Summary display,

1. ICM MWI(002)	
2. CLI MSG(000)	
3. VSF MSG(002)	
4. VMS MSG(001)	
5. UMS MSG(003)	
6. SMS(00)	
BACK	OK

- Dial 1 (ICM MWI) to view message waits from other stations,
- Press the navigation up/down button to scroll through your ICM messages.

To return a call from the list of ICM MWIs:

- Press the navigation up/down buttons to scroll through the Intercom messages,
- Press the **OK** Softkey ( for LIP-9008/08G) or **OK** button to select and place the return call.

To delete a Station MWI:

- Press the navigation up/down buttons to scroll through the ICM messages,
- Press the DELETE Softkey or dial #,
- Dial 1, the Delete MWI code.

To delete all Station MWIs:

- Press the DELETE Softkey or dial #,
- Press 3, the Delete All MWIs code.

To cancel delete a Station MWI:

- Dial 0, the Cancel MWI code.
- Move to the previous page.

6.2 Getting Voice Mail Messages

When callers are sent to your Voice Mailbox, they can leave a voice message, in the built-in Voice Mail service, the **iPECS Feature Server** or an external Voice Mail system.

The Voice Mail system allows access to and management of received voice messages. While in your Mailbox, you may modify your password and Mailbox greeting. In addition, you can remotely control Call Forward for your station from the built-in Voice Mail.

You will require a valid Authorization code (password) for your Mailbox to access the Voice messages. Please consult with your System Administrator for further information.

To retrieve Voice Mail locally using a flexible button:

- Press the programmed VOICE MAIL flexible button,
- Dial your station number and corresponding password to receive the 'Number of Messages' prompt,
- Follow the voice prompts to manage your messages,
- At completion of your session, hang-up to return to idle.

To retrieve Voice Mail locally using the MSG button:

- Press the MSG button, the LCD shows the Message Summary display:

1. ICM MWI(002) 2. CLI MSG(000) 3. VSF MSG(002) 4. VMS MSG(001) 5. UMS MSG(003) 6. SMS(02)	
BACK	OK

- Dial 3 for the built-in Voice Mail (VSF MSG), 4 for an external Voice Mail system (VMS MSG), or 5 for the iPECS Feature Server Voice Mail (UMS MSG).
- After the prompt enter your station number and password,
- Follow the voice prompts to manage your messages,
- At completion of your session, hang-up to return to idle.

To access your Voice Mail Box from a Remote Location:

- Call the telephone number of the outside line assigned for answer by the Auto Attendant,
- At answer, dial # to receive the 'Station & Password' prompt
- Dial your station number and password to receive the 'Number of Messages' prompt,
- Follow the voice prompts to manage your messages,
- At completion of your session, hang-up.

6.3 Sending and Receiving Short Text Messages

You can exchange short text messages (up to 80 alphanumeric characters) with other iPECS display phone users. If you have short text messages, the message button will be flashing. If the ring/message LED is set to MWI, the ring/message LED will flash.

To send an SMS message to another iPECS display Phone: (for UCP/eMG)

- Press the **TRANSFER(PGM)** button,
- Dial 36, the SMS send code,
 - Dial 1 to **resend** an existing message,
 - or dial 2 to send a **new** message,

- Enter the station range to receive the message, to send to a single station, enter the station number twice. (Example for single station: 1231,1231, for station range: 1231~1239)
- Enter your message using the dial pad. Refer to “1.8.1 Phone Entering Text” for details on entering text.
- Press the **HOLD(SAVE)** button to send your message.

To view your received Short text messages:

- Press the **MSG** button, the LCD will display the Message Summary display:

1. ICM MWI(002) 2. CLI MSG(000) 3. VSF MSG(002) 4. VMS MSG(001) 5. UMS MSG(003) 6. SMS(02)	
BACK	OK

- Dial 6 to view a received SMS; the first few SMS messages are shown in brief, press navigation key up/down to select the message. Newest Message will be listed end of the last
- Dial the Message number to view the entire SMS message.

To delete received Short text messages:

- Press the **DELETE** Softkey or dial #,
- Dial 1 to delete the message, 2 to cancel, or 3 to delete all received Short text messages.
- For the LIP-9008/08G, LIP-9020, LIP9030 and LIP9040, Softkeys are provided for replying to a message.
- In case of 9010, the Navigation buttons support Short Text Messaging.
- The **OK** button will send a message, the right button is SMS Reply, and the left button moves up the menu.

Chapter 7. Remote System Access

7.1 Mobile Phone Extension

When away from your desk or office you can place and receive iPECS calls on your mobile phone. You may need to activate the Mobile Phone Extension feature and register the Mobile Phone number.

To register a mobile phone number:

- Press the **TRANSFER(PGM)** button,
- Dial 37 (Register Mobile number code for UCP/eMG), '37' is the Code that access the Register Mobile Phone number.
- Dial your mobile phone number,
- Press the **HOLD(SAVE)** button.

To activate Mobile Phone Extension for your registered mobile phone:

- Press the **TRANSFER(PGM)** button,
- Dial 38 (Mobile Extension activation code for UCP/eMG), '37' is the Code that activate the Mobile Phone Extension feature.
- Dial 1 to activate or 0 to deactivate,
- Press the **HOLD(SAVE)** button.

To place a call from the mobile extension using the iPECS System:

- Dial the DID phone number of your station; the system will check the Caller ID, answer the call and return intercom dial tone,
- Place internal or external iPECS calls as normal.
- Answer a call ringing at your mobile phone, the Station shows the "IN USE AT MOBILE EXT" on the LCD screen.

To Transfer a call from the mobile extension using the iPECS:

- Dial “*” while on an iPECS call,
- Dial the desired station, the call is transferred and the mobile phone returns to idle.
- Reconnect to the transfer by dialing #.

NOTE

This feature is only available when the DID number is serviced by an ISDN or SIP outside line.

Check with your system administrator to determine if the Mobile Extension feature is available to you.

Chapter 8. Misc. Features

8.1 Call Log

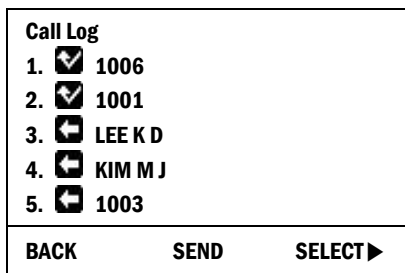
You can view a log of incoming, outgoing and missed calls on the display (up to 100 records). LIP-9008/08G, LIP-9020, LIP-9030 and LIP-9040 provide a simple access to incoming (called), outgoing (dialed) and missed (lost) calls using a LOG Softkey. In case of LIP-9010, you can access the Call Log with the right Navigation key.


NOTE



If a call is missed, the missed call icon will appear in the LCD. In this case, the LOG Softkey displays as LOG(M), indicating the missed call. The call log menu and its appearances described in this chapter can be different with a real display when the system provides the call log menu and policy

To access the Call Log menu:

- Press the LOG Softkey or, for the LIP-9010, press the right Navigation key.
- Use the Navigation up/down keys, to select a log menu (Called, Dialed, or Lost).










- The icon in front of each log item indicates the type of call:
 -  - Outgoing call (Dialed)

-  - Incoming call (Called)
-  - Missed call (Lost)

To place a call using numbers stored in the Call Log:

- From the Call Log, use the Navigation up/down keys, to select the log menu (Called, Dialed, or Lost),

Call Log	
1. 	1006
2. 	1001
3. 	LEE K D
4. 	KIM M J
5. 	1003
<div> BACK SEND SELECT▶ </div>	

- Highlight the desired item, and press the OK or  button to call the number. If you are using a LIP-9008/08G, LIP-9020, LIP-9030, or LIP-9040, you may press the SEND or  Softkey to call the number

To save an external number to your Station Speed dial:

- Use the Navigation up/down buttons to highlight the desired Call log item.
- Press the HOLD(SAVE) button. Note for the LIP-9020, LIP-9030 and LIP-9040, you can save the number to a Speed Dial by pressing the SELECT Softkey then the SAVE Softkey.

8.1.1 Line Access Codes






The outside line access code in a log item is used to seize an outside line when placing an external call using the call log. Up to 5 line access codes can be saved.

Normally, the first line access code is the default outside line group code, typically '9', but, if the telephone number is the same as a Speed Dial number, the first line access code is the access code in the Speed Dial number. Therefore, the first line access code of each call log can be different but is not be editable.

If you are using an LIP-9020, LIP-9030 or LIP-9040, you can assign Line access codes 2 - 5. You may select a code for use when placing external calls from the call log.

To select an access code:

- From the Call Log, use the right Navigation key, to advance to the next 3 Softkeys,

Call Log	
1. 	1006
2. 	1001
3. 	LEE K D
4. 	KIM M J
5. 	1003
◀DELETE CO CODE	

- Press the CO CODE softkey, the code displayed with the '+' symbol is the current access code,

CO CODE	
1.	+88006
2.	
3.	
4.	
5.	
BACK	EDIT SELECT

- Use Navigation up/down buttons to highlight the desired item,
- Press the SELECT Softkey.

To edit access codes 2-5:

- From the Call Log, use the right Navigation key, to advance to the next 3 Softkeys,
- Press the CO CODE softkey, the code displayed with the '+' symbol is the current access code,
- Use Navigation up/down buttons to highlight the desired code,
- Press the EDIT Softkey to modify the selected code.

NOTE

The LIP-9002, LIP-9008/08G and LIP-9010 user cannot edit or select a line access code.

8.2 Contrast

The LCD brightness can be adjusted to enhance the display contrast.

To change the LCD Contrast:

- While in an idle state, press the **VOL ▲▼** button to adjust the brightness (for UCP/eMG).
 - ▲- increase (darker), ▼- decrease (brighter)

8.3 Background Music

While idle, your LIP phone can play one of the 10 music sources available. The Background Music (BGM) is played over the speaker of your LIP phone.

To turn on Background Music:

- Press the **TRANSFER/PGM** button.
- Dial '73', the BGM code. '73' is the Code that access the Background Music selection.
- Dial the two-digit music source code (00 – 10). Code '00' is no BGM.
- You may press the **HOLD/SAVE** button to play the audio or dial a different two-digit code (00 – 10) to select a different source.

8.4 Using Internal, External and Meet-Me Paging

You can broadcast announcements to other stations and/or external speakers. Stations are assigned to receive announcements from one or more of the **Internal Page Zones**. In addition, the system can send announcements to one or both of the **External Page Zones** that can be connected to external speakers.

Your iPECS System permits access to the following types of Page Zones.

Note the number of Internal and External Zones varies between the iPECS systems based on the platform and size of the iPECS system. Contact your system administrator for details.

- **Internal Page Zones**
- **Internal All Call Page**
- **External Page Zones**
- **External All Call Page**
- **All Call Page**

If the desired Page Zone is busy, you can elect to be recalled when the zone returns to idle. When the zone returns to idle, you will receive a callback.

In your Page announcement, you can request a party answer the Page using **Meet-Me Paging**. In this case, the paged party may answer the page from any phone in the system by dialing the Meet-Me code. After dialing the Meet-Me code, the party is connected to your phone and the Page Zone returns to idle.

To make a page:

- Lift the handset,
- Dial the desired Page zone, contact your system administrator for details.
- If assigned, after the page warning tone, make your announcement.

To queue for a busy Page Zone:

- Press the **MSG** button,
- Replace the handset, returning to idle.

To answer a Meet-me-Page:

- Lift the handset.
- Dial Meet-Me-Page code. Please consult with your System Administrator for further information.

8.5 Push-To-Talk (PTT) Page

iPECS Phones can be assigned as a member of one or more of the system's nine Push-To-Talk (PTT) page groups. You login or log-out of any one or all PTT groups to which your phone is assigned. Once logged in, place or receive one-way page announcements to/from other users who are logged in to the same PTT group.

To log-in to a PTT group:

- Dial #0
- Dial the desired PTT group number (1-9 or 0 for all groups),

To log-out of the PTT group(s):

- Dial #0, the PTT Log-in/out code,
- Press the * dial pad button.

To assign a PTT Flex button:

- Press the **TRANSFER(PGM)** button.
- Press the desired flexible button.
- Press the **TRANSFER(PGM)** button.
- Dial 99 (User Program code for UCP/eMG). '99' is the Code that assign the Push-To-Talk (PTT) Page.
- Press the **HOLD(SAVE)** button.

To place a page announcement to the active PTT group:

- Press and hold the **PTT** flexible button,
- After confirmation tone, make your page announcement.
- When you finish your announcement, release the **PTT** flexible button.

8.6 Wake-Up Alarm

iPECS systems include an Alarm clock for each station in the system. You may have access to one or 5 alarm settings and may set the alarm as a one-time or repeating alarm. When you set an alarm, you select the repeating type (1 – 4) as below.

- 1 - Alarm activates one-time on the assigned date and time.
- 2 - Alarm repeats daily, Monday through Friday.
- 3 - Alarm repeats daily, Monday through Saturday.
- 4 - Alarm repeats daily each day of the week.

To set the Wake Up Alarm clock:

- Press the **TRANSFER(PGM)** button,
- Dial 41 (Alarm register code for UCP/eMG). '41' is the Code that set the Wake Up Alarm Time.
- If requested, enter the Wake-up alarm index number, "1 to 5".
- Dial the desired 2-digit hour (24-hour mode), then the 2-digit minute for alerting.
- If requested, enter the Repeating type, "1" to "4".
- If requested, enter the date for the alarm as two (2) digits for year, month and day of the month.
- Press the **HOLD(SAVE)** button.

To erase a Wake-Up alarm:

- Press the **TRANSFER(PGM)** button.
- Dial "42". '42' is the Code that release the Wake Up Alarm Time.
- If requested, enter Wake-Up alarm index number, "1" to "5".
- Press the **HOLD(SAVE)** button.

To stop the alarm notification

- Lift the handset or press the **SPEAKER** button.

8.7 Alarm/Door Bell

The system can monitor up to four external contacts as **Alarm** or **Door Bell** contacts. The number of monitoring circuits varies based on the iPECS platform and size. Please consult with your System Administrator for further information.

Alarm Monitor—should the external contact activate, a unique Alarm Ring signal and LCD display may be received. To restart the monitor circuit, the external contacts must be deactivated and the Alarm Ring signal terminated.

Door Bell—a unique Door Bell Ring, a single tone burst, may be received each time the external contact is activated. A system contact can be assigned to act as a **Door Open** contact. You can then activate the contact through dial codes or a flexible button assigned with the Door Open code.

To terminate the Alarm signal:

- Dial *565 (Alarm Stop code, for UCP/eMG). '*565 ' is the Code that stop the Alarm signal.

To activate the Door Open contacts:

- Lift the handset,
- Dial the Door Open code, #* and contact number 1-4.

8.8 System Voice Memo

The integrated Voice Mail of your iPECS system incorporates several **Voice Memos** to provide you with general information such as station number, date, time, and feature status. Voice Memos are heard over the iPECS Phone speaker.

For the **Station Status Memo**, the following items are reported:

- ICM Signaling Mode (Handsfree/Tone/Privacy)

- Station IP Address
- Station Mac Address
- Number of messages x (x: number of all messages waiting)
- Wake-Up Time (hh:mm)
- Do Not Disturb
- Forwarded to station xxx
- Forwarded to speed bin xxx
- Queued outside line xxx
- Locked (Temporary COS)
- COS x

To hear the Date & Time memo:

- Dial the Voice Memo code (661 or *661 for UCP/eMG),
- The Date and Time memo are heard, "The Date is May 2nd.Time is 12:57 pm".

To hear the Station Number Prompt:

- Dial the Voice Memo code (662 or *662 for UCP/eMG),
- The Station Number memo is heard, "This is station 150".

To hear the Station Status memo:

- Dial the Voice Memo code (663 or *663 for UCP/eMG),
- The Station Status Memo is heard.

NOTE

Only activated features are announced.

8.9 Hot Desk

iPECS phones in the system may be assigned for **Hot Desk** operation. These Hot Desk phones let you log-on and use the Hot Desk phone as if it were your station.

Once logged-on, the Hot Desk station will take on the attributes assigned to your station number, and you can make and receive calls as normal.

When you log-out of the Hot Desk, you can choose a forward destination, such as voice mail, for your calls. Contact your system administrator for details.

To Log on to a Hot Desk station:

- Press the **TRANSFER(PGM)** button,
- Dial *0 (Hot desk login code for UCP/eMG), '*0' is the Code that log on to the Hot Desk station.
- Dial your Authorization Code (Hot desk Station Number and Password). Please consult with your System Administrator for further information.

To Log out of the Hot Desk station:

- Press the **TRANSFER(PGM)** button,
- Dial * twice (Hot desk logout code for UCP/eMG), '**' is the Code that log out from the Hot Desk station.
- Use the **VOL ▲▼** button to select a call forward destination for your calls. You can select a speed dial, mobile phone, built-in Voice Mail, or an external Voice Mail group,
- Press the **HOLD(SAVE)** button.


Chapter 9. Display Menu

9.1 Menu Overview

The Display Menu permits access to the Phone settings and the Network Configuration for the phone. In addition, the menu includes alternative methods for handling Conference Rooms and Short Text Messages, and configuring the Flexible buttons on your phone. If you are the Attendant, access to special Attendant features are available through the menu.

Note that the BACK Softkey of the LIP-9008/08G, LIP-9020, LIP-9030 and LIP-9040 can be used to move back one menu step.


For the LIP-9010, use the left Navigation button to move back one menu step. (The LIP-9002 does not support this function.)

The LIP-9008/08G use the symbol () softkey for OK button, and the Volume for Navigation.

9.2 Using the Menu

The Display Menu is activated using the Menu button. Use the Navigation keys to scroll the menu choices; items are selected using the OK button or softkey, or dialing the digit associated with the selection. The Menu includes the six sub-menus as shown below

To activate the Display Menu:

- Press the **MENU** () button,
- Scroll the list with the Navigation or Volume up/down keys then select an item with the OK button or softkey or dial the menu digit.

- 1. PHONE SETTING**
 - 2. CONFERENCE ROOM PGM**
 - 3. ICM SMS**
 - 4. NETWORK CONFIG**
 - 5. BUTTON PROGRAM**
 - 0. ATTENDANT**

NOTE

The “0. Attendant” selection will only display on the System Attendant phone.

9.2.1 Phone Setting

The Phone Settings allow you to control several aspects of your phone as shown in the Phone Settings menu below.

To configure the Phone Settings:

- Press the **MENU** button and select the Phone Setting sub-menu,
- The following menu displays:

- 1. STATION NAME PROGRAM**
 - 2. ICM RING**
 - 3. CO RING**
 - 4. PASSWORD PROGRAM**
 - 5. LANGUAGE PROGRAM**
 - 6. STA RING DOWNLOAD**
 - 7. BACKLIGHT**
 - 8. FONT PROGRAM**
 - 9. LCD DIMMING**

9.2.1.1 Station Name Program

After selection, enter the name for your phone using the dial pad. You can enter up to 20 characters. Refer to “1.8.1 Phone Entering Text” for details on entering text. When done, press the OK button or Softkey.

9.2.1.2 ICM Ring/CO Ring

When multiple phones in a small area ring, which are ringing can be difficult to tell. The iPECS Phone has 16 **Ring Tones** available for differentiating one phone’s ringing from another. Different tones can also be assigned for internal and external ringing calls. Ring tones can also be established as described in to “3.4 Differential Ring Signals”.

- Use the Navigation or Volume up/down keys to select ICM (internal) or CO (outside) ring tones and select with the OK button or Softkey.
- Use the Navigation or Volume up/down keys to scroll through the list of ring tones and select the tone with the OK button or softkey. If you are using an LIP-9008/08G, LIP-9020, LIP-9030 or LIP9040 you may use the NEXT Softkey.

9.2.1.3 Password Program

For several features, you may need to enter an Authorization code or password. You can change the password as desired from 1 to 12 digits.

- Enter your current password and press the OK button or Softkey.
- Your Station number is the default password. Then enter the new password and press the OK button or Softkey to store the new password.

9.2.1.4 Language Program

The phone can display text in multiple languages.

- Use Navigation or Volume up/down keys to highlight available languages then press the OK button or Softkey to select the language.

9.2.1.5 Station Ring Download

The system stores 10 ring tones four of these tones can be stored in the phones memory. For more details, refer to "3.4 Differential Ring Signals".

- Select the phone's ring tone memory position, 5-8, use the dial pad to select the system tone to download then press the **HOLD(SAVE)** button or **SAVE** Softkey to download the tone.

9.2.1.6 Backlight

There are several selections for the illumination of the LCD backlight.

- Use Navigation or Volume up/down keys to highlight the backlight control and select with the OK button or Softkey.

9.2.1.7 Font Program

Several fonts are available for the LCD.

- Use Navigation or Volume up/down keys to highlight the LCD Font and select with the OK button or Softkey. (except LIP-9002, LIP-9008/08G)

9.2.2 Conference Room

You can create a Conference Room that others, internal and external can call to join a conference. An alternative procedure to creating and joining a Conference Room is provided in "5.4.1 Setting up a Conference Room".

To configure a Conference Room:

- Press the **MENU** button and select the Conference Room sub-menu,
- The following menu displays:

- 1. CREATE CONF ROOM**
 - 2. DELETE CONF ROOM**

- Press the Navigation or Volume up/down keys to highlight the desired option then press the OK button or Softkey, or dial the option number.
- Enter the room number (1-9) and dial a 5-digit password that will be required to enter the room,
- Press the OK button or Softkey.

9.2.3 ICM SMS

You can send and receive short text messages, SMS messages, to and from other stations. For additional details and an alternative approach, refer to “6.3 Sending and Receiving Short Text Messages”.

To send an SMS message:

- Press the **MENU** button and select the ICM SMS sub-menu.
- The following menu displays:

- 1. SEND MESSAGE**
 - 2. IN BOX(03)**

- Use the Navigation or Volume up/down keys to highlight “SEND MESSAGE” then press the OK button or Softkey. You may dial the digit 1 to select the “SEND MESSAGE” item.
- Dial 1 if resending, or 2 to send a new message (edit).
- Enter the Station number or range to receive the message.
- Write your message, for details refer to “1.8.1 Phone Entering Text”.
- Press the OK button or Softkey to send the message.

To retrieve a SMS message:

- Press the **MENU** button and select the ICM SMS sub-menu.
- The following menu displays:

- 1. SEND MESSAGE**
 - 2. IN BOX(03)**

- Use the Navigation or Volume up/down keys to highlight “IN BOX” then

press the OK button or Softkey You may dial '2' to select the "IN BOX" item.

- The display shows a line for each message. Highlight the desired message and press the OK button or Softkey to read the entire message.

9.2.4 Network Configuration

The network Configuration menu affects the connection of your phone to your local area network; **it is intended for access by trained technicians only.**

The structure of the Network Configuration menu is shown below.

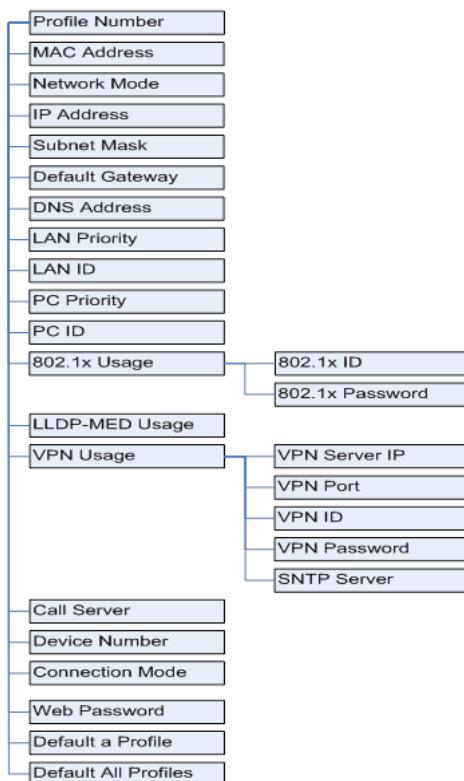


Figure 17: LIP-9002 and LIP-9008/08G

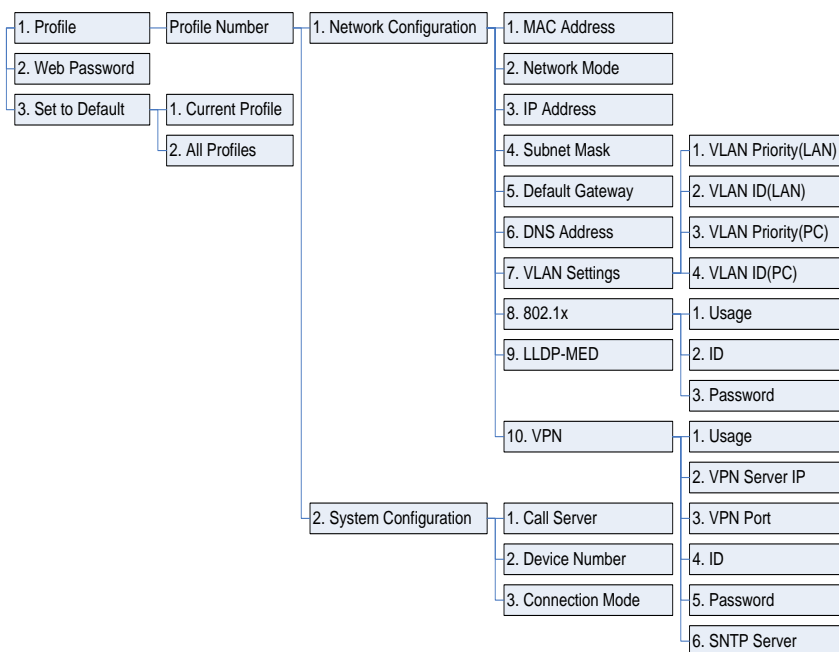


Figure 18: LIP-9010, 9020, 9030 and 9040

To access Network Config. settings:

- Press the **MENU** button and select the Network Configuration sub-menu. For LIP-9002, press **TRANSFER (PGM)** button and 78.
- Enter the password; to display the sub-menu: (contact to your system administrator) .

1.Profile
2.Web Password
3.Set to Default

- Use the Navigation or Volume up/down keys to highlight an item then select the item with the OK button or Softkey. You may dial the digit for the menu item to select item.
- Enter the appropriate data for the item select then press the OK button or Softkey.

9.2.5 Button Program (LIP-9030/9040 Only)

You can save or change a feature to flexible button, and attach a label to the flexible button.

To configure a Button Program:

- Press the MENU button and select the Button Program sub-menu,
- The following menu displays:

1. BUTTON FEATURE
2. BUTTON LABEL

- Press the Navigation up/down keys to highlight “BUTTON FEATURE” then press the OK button or Softkey.
- Select the desired flexible button, the current feature displays.
- Enter or select the new feature.
- Press the Navigation up/down keys to highlight “BUTTON LABEL” then press the OK button or Softkey, the current label is shown in the LCD.
- Use the dial pad to enter a new label, for details see “1.8.1 Phone Entering Text”.
- Press the OK button or Softkey.

9.2.6 Attendant menu

The Attendant menu is only available on the System Attendant phone.

To access the Attendant menu:

- From the Attendant Station phone, press the **MENU** button,
- Press 0 (Attendant); the following will display:

1. DATE/TIME SET
2. SET ICM ONLY MODE
3. RESTORE COS
4. MONITOR CONF ROOM
5. DELETE CONF ROOM

SELECT (1 - 5)

BACK	OK
-------------	-----------

- **Date/Time Set**—Enter mm/dd/yy, and press the **OK** button or press the **HOLD(SAVE)** button; enter hh/mm, and press the **OK** button or press the **HOLD(SAVE)** button.

- **Set ICM Only Mode**—Dial the Station Range for ICM only calls (ex., 103-108=103108), press the **OK** button or press the **HOLD(SAVE)** button.
- **Restore COS**—Dial the Station Range to restore the COS (ex., 103-108=103108), and press the **OK** button or press the **HOLD(SAVE)** button.
- **Monitor Conference Room**—Enter the Conference Room number to view the number of attendees in the Conference Room.
- **Delete Conference Room**—Enter the Conference Room number and press the **OK** button or press the **HOLD(SAVE)** button to delete.

Chapter 10. Features & Flex Buttons



10.1 Entering Station Program Data

A special code set is available for iPECS Phone users to assign certain attributes such as Authorization Codes (Passwords). After entering the **User Program** mode, you dial the codes to select the attribute and setting. Once selected, the setting is saved.

A list of the User Program codes, the feature/function and inputs required are available from your system administrator.

In some cases, you can assign these codes to a flexible button.

To assign user programmable attributes to your station:

- Press the **TRANSFER(PGM)** () button,
- Dial desired User Program codes, (See “A.1 Extension User Program Code Table”.)
- Press the **HOLD(SAVE)** () button.

10.2 Assigning Features to Flexible Buttons

You may assign features and functions to the flexible buttons on your iPECS Phone, and may be able to assign outside line buttons.

Flexible buttons may be assigned for most features providing One-Touch feature activation. For example, a flexible button may be assigned to access the *Account Code* feature and may include the Account code digits.

Features that may be assigned to a flexible button include:

DSS/BLF—Enter station number.

Speed Dial—Enter Station/System Speed dial bin.

Flex Numbering Plan—Enter Flex Numbering Plan code (contact to your system administrator).

User Program Code—Press the **TRANSFER(PGM)** and enter a User Program code (contact to your system administrator).

Outside Line—Enter the line or group number.

To assign a feature to a Flex button:

- Press the **TRANSFER(PGM)** button,
- Press the desired flexible button,
 - In case of Station number, outside line or line group, enter the number then press the **HOLD(SAVE)** button,
 - In case of Flexible Numbering Plan Code, enter the numbering plan code then press the **HOLD(SAVE)** button,
 - In case of a User Program Code, press the **TRANSFER(PGM)** button and enter the Program Code then press the **HOLD(SAVE)** button.

Appendix A: User Program Code

A.1 Extension User Program Code Table

The Extension User program menu is shown in the LCD of iPECS Multi-button phones to guide users in programming features and functions.

To use these codes, press the **Trans/PGM** () key then enter the below code.

Code	Description
11X	Intercom Differential Ring
12X	CO Line Differential Ring
13	Intercom Answer Mode (1: HF/2: TONE/3: PV)
14X	Call Coverage Attribute Setting
15X	Station Ring Download
21	Knock Down Station COS
22	Restore Station COS
23	Walking COS
24	ICR Scenario
25	LIP Keyset Stat
26	Call Profile
30	VM Mobile Notify
31	Message Retrieve Method
32	Message Retrieve Example
33	User Authorization Code Registration
34	DID Call Wait
35	Message Wait in Executive/Secretary pair

Code	Description
36	Send SMS Message
37	Register Mobile Extension
38	Make Mobile Extension active
39	Register Mobile Extension CLI
41	Set Wake-Up Time
42	Wake-Up Time Disable
51XX	Custom/Pre-select Message Display (XX = 00-20)
52	Register Custom Message (Message 00)
53	Active Conference Room
54	Deactive Conference Room
551	Monitor Conference Group
56	Multiple Mailbox Greeting
57	{Call Log Display} Button Assignment
61	Headset/Speakerphone Mode
62	Change Ring Mode
71	LCD Display Mode
72	Version Display
73	Background Music
74	Station User Name Registration
75	Display Phone IP Address
76	Change Phone IP Address
77	Display Phone MAC Address
78	Network Config
79	Display Phone Version
7#	Forced Release Button Assignment
7*	Display Serial number/Package for SMEMU
80	{Record} Button Assignment - With Voice Mail
81	{CLIR} Button Assignment

Code	Description
82	{COLR} Button Assignment
83	{ATD DND} button assignment
84	{Account Code} Button Assignment
85	{LOOP} Button Assignment
86	{ATD Intrusion} Button Assignment
87	{INTERCOM} Button Assignment
88	{Camp-on} Button Assignment
89	{Send Keypad Facility IE} Button Assignment
8#	{OHVO} Button Assignment
8*1	DID Restriction Button Assignment
8*2	DISA Restriction Button Assignment
8*3	Bomb Threat History Button Assignment
8*5	Headset Button Assignment
8*6XYZA	Toggle Ring Mode Button Assignment X,Y,Z,A: 1(Day), 2(Night), 3(Timed), 4(Auto)
90	{SPEED} Button Assignment
91	{CONFERENCE} button assignment
92	{CALLBACK} button assignment
93	{DND} button assignment
94	{FLASH} button assignment
95	{MUTE} button assignment
96	{MONITOR} button assignment
97	{REDIAL} button assignment
98	{CALL FORWARD} button assignment
99	{PTT} button assignment
9*XX	{In-Room Indication} button assignment (XX = 01-10)
*6XXX	Set Forced Fwd Dest (XXX: hunt group no.)
*7XXX	Forced FWD To Dest (XXX: hunt group no.)
*8	Register Bluetooth

Code	Description
*9	Bluetooth Usage
*0	Hotdesk Login
**	Hotdesk Logout

Table 4: User Program Code Table

Appendix B: Document abbreviations

B.1 Acronym and Abbreviation

For the purpose of this document, the following abbreviations hold. The following abbreviations are used to refer to the operating LIP-9000 Series phone described in this Manual.

Acronym	Full name
AEM	Answering Machine Emulation
ACNR	Auto Called Number Redial
BGM	Background Music
BLF	Busy Lamp Field
BRI	Basic Rate Interface
CID	Calling Identity Delivery
CLI	Calling Line Identification
CLID	Calling Line ID
CLIP	Calling Line ID Presentation
CO	Central Office
COS	Class of Service
DID	Direct Inward Dialing
DND	Do Not Disturb
DSS	Direct Station Selection
DTMF	Dual Tone Multi-Frequency
HF	Hands-free
ICM	Intercom
IP	Internet Protocol

Acronym	Full name
ISDN	Integrated Services Digital Network
LCD	Liquid Crystal Display
LED	Light Emitted Diode
LNR	Last Number Redial
LSS	LCD Station Selection
MWI	Message Wait Indication
PoE	Power over Ethernet
PRI	Primary Rate Interface
PTT	Push-To-Talk
PV	Privacy
SMDR	Station Message Detail Recording
SMS	Short Message Service
UMS	Unified Memory System
UNA	Universal Night Answer
VMS	Virtual Memory System
VoIP	Voice over Internet Protocol

Table 5: A list of abbreviation and acronym

Appendix C: Models Specification

C.1 LIP-9000 Series Model Specification

Enjoy a wide selection of easy-to-use system IP phones to enrich your communications experience with a powerful speaker phone and wideband voice support. LIP-9000 Series phones from Entry level to Advanced terminals, designed to best fit the users' needs.

		LIP-9002	LIP-9008	LIP-9008G	LIP-9010	LIP-9020	LIP-9030	LIP-9040
Display	LCD Size (Pixels)	128 X 32	128 X 48		320 X 48	320 X 80	320 X 112	320 X 144
	UI Line	2 Line	4 Line		3 Line	4 Line	6 Line	8 Line
	Backlit	N/A		YES				
	LCD Type	Black and White			Gray scale graphic			
Keypad	Programmable button with BLF	YES (4)	YES (8)		YES (5)	YES (10)	YES (8X3 Page, total 24)	YES (12X3 Page, total 36)
	Softkey	N/A	YES (3)		N/A	YES (3)		
	Navigation key	N/A			YES			
	Fixed button (dedicated hard keys)	YES (10 buttons)	YES (11 buttons)		YES (12 buttons)			
	LED Buttons	YES (3 Color LED)						
Network interface	Ethernet (IEEE 802.3/1 Gigabit)	YES (2*10/100 Base-T)		YES (2*10/100/1000 Base-T)	YES (2*10/100 Base-T)	YES (2*10/100/1000 Base-T)		
	Bluetooth (LIP-9000 BTMU)	N/A			YES (External Bluetooth Dongle)			
	EHS	N/A	External EHS					
Speaker		YES (Half duplex)			YES (Full duplex)			
Audio interfaces	Handset (RJ-9)	YES						
	Headset (RJ-9)	YES						
IM Presence		N/A					YES	
BLF		YES						

Power	Local (Optional - 48V,0.3A)	YES	
	PoE (802.3af)	YES (Class 1)	YES (Class 1/ w o Button kit, Class 2/w Button kit)
Audio	Codec	G.711, 729AB, 722	
	Call Signaling Protocol	Ericsson-LG Enterprise iPECS protocol	
	Features	Echo cancellation, VAD, CNG, Hearing Aid Compatible	
Network	IP Address	Static / DHCP	
	LLDP-MED, VLAN	YES	
	QoS	Dynamic jitter buffering, 802.1p/Q, Layer 3 TOS, DiffServ	
Security	Standard	SRTP w/AES-128, 802.1x/EAP-MD5(EAPOL), Password login	
	VPN (Open VPN)	YES	
Manage- ment	Auto/Remote Upgrade	YES	
	Web Management	YES	
Others	Phone tilting		YES (2 Level Bracket)
	Button kit Support	N/A	YES (LIP-9012DSS/24DSS/24LSS/48DSS)
	Wall mount	YES (Optional)	
	Ring type	Wave file/FM method	

Table 6: Compare Models of LIP-9000 Series

Appendix D: Useful Information

D.1 Regulatory Information

D.1.1 [EU] European Union Declarations of Conformity

Ericsson-LG Enterprise Co., Ltd. declare that the equipment specified in this document bearing the “CE” mark conforms to the European Union Radio Equipment Directive (RED, 2014/53/EU), including the Electromagnetic Compatibility Directive (EMCD, 2014/30/EU) and Low Voltage Directive (LVD, 2014/35/EU). Copies of these Declarations of Conformity (DoCs) can be obtained by contacting your local sales representative.

D.1.2 [USA/CSA] FCC/IC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This device complies with part 15 /RSS-GEN of the FCC/IC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference; and

(2) This device must accept any interference received, including interference that may cause undesired operation.

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations, CAN ICES-3(B)/NMB-3(B)

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CAUTION: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ATTENTION: Tout changement ou modification dans la construction de cet appareil qui ne sont pas expressément approuvé par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser l'équipement. This Class B digital apparatus complies with Canadian ICES-003.

D.2 Disposal of your old appliance



1. When the crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2012/19/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

D.3 Important Safety Information

To prevent unexpected danger or damage please read this information before installing or attempting to repair you phone. Warning and Caution information is provided to alert the consumer of known dangers:



Warning: To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as a bathroom, swimming area, etc.



Warning

1. Only trained and qualified service personnel should install, replace or service the phone.
2. Do not spill liquid water on the phone. If so, disconnect the phone immediately and call the service center as this may result in fire or electric shock.
3. If you see or smell smoke during use, disconnect the phone and call the service center immediately.
4. If the power adapter is used, do not touch the plug with wet hands. This may result in a fire, an electric shock or equipment damage.
5. Do not use the phone during a thunderstorm. A lightning strike may result in fire, severe electrical or acoustic shock.
6. Do not use the power adapter if the power cord or wall outlet is damaged. This may result in fire or an electric shock.



Caution

1. Ensure that children do not pull on phone cords. This may injure children or result in equipment damage.
2. The earpiece houses a magnetic device that may attract pins or small metal objects. Keep the handset clear of such objects and check before use.
3. Avoid placing the phone in an area that is excessively dusty, damp or subject to vibration.
4. Choose a site for the phone that is well ventilated and dry.
5. Do not plug multiple plug-packs into one power outlet. This may result in the plug overheating and may result in a fire or plug pack failure.
6. Do not put heavy things on the phone.

7. Do not drop or throw the phone.
8. Static electricity discharge will damage electronic components.
9. Keep out of direct sunlight and away from heat.
10. No user-serviceable parts are inside. Do not insert a screwdriver or any metal objects into the phone. This may cause electric shock or damage the equipment and will render the warranty void.
11. Clean the phone with a soft, dry cloth only. Do not use volatile liquids such as petrol, alcohol, or acetone as this may cause a fire or result in discoloration or damage to plastics. Do not clean with wax or silicon products as these may enter the equipment and cause operation to become unstable.

Appendix E: Open Source Software

E.1 Open Source Software Notice

Open Source Software used in this product are listed as below. You can obtain a copy of the Open Source Software License from Ericsson-LG Enterprise Web site, <http://www.ericssonlg-enterprise.com>. Ericsson-LG Enterprise reserves the right to make changes at any time without notice.

Open Source	License
u-boot	GPL 2.0
linux	GPL 2.0
busybox	GPL 2.0
Alsa Libraries	LGPL
ortp	LGPL
pj_jbuf	GPL 2.0
ibsrtp	BSD
Curl/LibCurl	MIT
expat	MIT
wpa_supplicant	GPL 2.0
OpenLLDP	BSD
OpenVPN	GPL 2.0

Ericsson-LG Enterprise offers to provide you with open source code on CD-ROM for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling upon e-mail request to Ericsson-LG Enterprise at opensource@ericssonlg.com

This offer is valid for a period of three (3) years from the date of the distribution of this product by Ericsson-LG Enterprise.

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