IPU-100P PAGING DESK



User Manual



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The public address system for IP networks of UNION DESARROLLOS ELECTRONICOS allows the creation of conventional PA and security systems, allowing interconnecting with IP devices following SIP standard. Unión Desarrollos Electrónicos also offers the IPU-360 SIP server that will centralize and coordinate all communication of IP paging elements ensuring maximum functionality of all of them, with minimal risk.

The IPU-100P paging desk allow the user to manage the IP PA system calling individual or groups of zones with user friendly graphic interface in a 7" full color touch screen.

The IPU-100P is build with a gooseneck microphone and also with an audio socket for a XLR handheld microphone with remote switching contact.

The IPU-100P characteristics:

·Manage the zone selection and make voice calls.

7" TFT full colour touch screen

5-pin XLR connector for handheld microphone.

Direct audio & data link with IPU-100 or IPU-1025.

Web server configuration.

100% WIFI compatible (accessories required).

24Vdc power supply connector (for cables greater than 50m).

USB connector for firmware update.

High quality gooseneck microphone

The IPU-100P is the IP solution for manage PA zones is a highly versatile range of installations: schools, hotels, retail spaces, office buildings, airports... giving proper solutions from small locations to a more complex installations. The graphic interface gives a great navigation experience to the operator, from small places to the biggest ones.

Technical staff can program until 250 zones in 25 pages with specific name in each zone, configuration process is made with an easy web interface. IPU-100P shall be installed with IPU-100 or IPU-1025 combination and connected with the audio link bus, where audio and information travels.

TECHNICAL DATA	VALUES
Gooseneck microphone	Black gooseneck condenser microphone. Frequency response: 50Hz-16KHz Max. Input: 130dB SPL.
Microphone XLR socket	To connect handheld microphone with XLR 5c connector.
USB port	USB 2.0 Type-A.
Frontal LEDs (only informative)	Power ON, FAULT, MESSAGE.
Rear LEDs (only informative)	Device FAIL, LINK OK, LINK FAIL, DATA IN, DATA OUT, AUDIO IN, AUDIO OUT
PA zones	The user can manage until: 250 PA zones buttons (maximum). 250 extensions in each PA zone button (maximum). 15 group name characters in each PA zone button.
Configuration	Through a web server interface from the IPU-100 / IPU-1025 to the IPU-100P, it is possible to: Check the right desk control work. Password managing. Configuration: SIP parameters / LAN parameters / PA extensions / Hour & date.
Security	8 alphanumeric characters with ASCII between 32 and 127 in IPU-100 or IPU-1025.
Power supply	Main: AC Adaptor (recommended): 24Vdc (1830V). 0.9A PPTC internal fuse (resettable). Bus AUDIO LINK from IPU-100 or IPU-1025: 24Vdc (1830V).
Consumption	6W max. at 24Vdc.
Operation temperature	-5 a +45°C (0 a +40°C, recommended).
Humidity	5% a 95%, without condensation.
Dimensions	318 x 188 x 73 mm.
Weight	1.4 Kg.
Color	Grey (Aluminium).

The figure 1 shows a typical connection between the desk control IPU-100P and the IP network, for that is necessary an IPU-100 or IPU-1025 codifier / decodifier.



Figure 2 provides a configuration example of the PA system for IP networks. The encoder / decoder and audio manager, IPU-100 model, is the element that allows the decoding process of audio sent digitally to 0dB audio signal.

The IP Paging Desk, model IPU-100P, through an intuitive graphical interface, built-in a 7 " color touch screen, allows the operator to navigate and select the areas where to send a message using the microphone on the same device.

The SIP server, IPU-360, which acts as intermediary between all IP devices over the LAN, coordinating the tasks.

The different elements allow multiple configurations and connections, adding flexibility to combine the wide range of amplifiers, preamps, power amps, ..., of UNIÓN DESARROLLOS ELECTRÓNICOS.



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3.- FRONT VIEW / REAR VIEW



CONTROLS, CONNECTORS AND INDICATORS

- 1 TOUCHSCREEN. 10 zone touch- buttons per page ready to broadcast public address message.
- 2 MICROPHONE. Gooseneck microphone. Length: 300mm.
- **3 USB CONNECTOR**. The USB connector allows the firmware update.
- **LED ON**. This indicator shows the equipment is properly powered and main application is running.
- 5 LED FAULT. LED is disabled.
- 6 LED MESSAGE. LED is disabled.
- 7 PTT BUTTON. A push-to-talk (PTT) button to start the call when at least one zone is selected.
- 8 LED FAIL DEVICE. This indicator is activated when there is a connection problem with IPU-100 or IPU-1025.

Remember!

If you experience problems with the DEVICE FAIL, so if it ever turns on sporadically, then it is recommended to contact with your local network administrator (LAN).

9 LED LINK FAIL. This indicator is activated when exist a wrong data transmission with IPU-100 or IPU-1025.

Remember!

If you experience problems with the LINK FAIL, so if it ever turns on sporadically, then it is recommended to reboot the IPU-100P and IPU-100 or IPU-1025 to solve the communication problem between them. If the problem is no solve it, contact the technical staff of the installation.

10 LED LINK OK. This indicator is activated when exists a right data transmission with IPU-100 or IPU-1025.

11 LED DATA OUT. This indicator shows data modulation sent from IPU-100P.

12 LED DATA IN. This indicator shows data modulation sent to IPU-100P.

[13] LED AUDIO OUT. This indicator shows audio modulation from the gooseneck or external microphone.

Remember!

If you experience problems with the LED AUDIO OUT, and never turn on, contact the technical staff to guarantee the right operation.

14 LED AUDIO IN. LED is disabled.

3.- FRONT VIEW / REAR VIEW



DC IN. Jack to connect 24Vdc external power supply. (Model: I**PW-25**).







The IPU-100P has 2 powering methods available; the power input by the IPW-25 adaptor, is the highest-priority entry and disables the rest. The less priority power is the audio link power supply.

16 I / O. This connector allows connection of an IPU-100P or allows the expansion and control, of external devices through the digital bus, also has a balanced analog audio input and one output that allow the exchange of audio between the IP Paging Desk and the IPU-100 (encoder / decoder). We recommend using UTP wiring to connect both devices. The IPU-100P (IP Paging Desk) can be powered via the AUDIO LINK when you are less than 50 meters of the IPU-100.



17 EXTERNAL MICROPHONE. The XLR 5c socket allow to connect handheld microphones with push to talk switch, Unión Desarrollos Electrónicos recommends to use the CM-23 microphone.





EXTENSION SIP CONFIGURATION (ONLY IPU-100P mode).

The public address zone configuration with an IPU-100P desk control must be done with a IPU-100 codifier. It is not possible to make the desk control configuration with the touch screen. The extension web server of the IPU-100 menu will allow erasing all IPU-100P zone buttons or editing the PA buttons of the IPU-100P desk control.



4. DEVICE CONFIGURATION (WEBSERVER).

The IPU-100 configuration is done by accessing to the IP address assigned to the device by the site administrator if you work in Manual mode assignment (Static Mode), or by the DHCP server if you work in automatic mode. **Static IP by default is: 192.178.0.210**

4.1 Home Page (HOME).

The HOME page of the IPU-100 WEB application allows everyone access to configuration menus and display the status variables of the encoder / decoder.

doe		all the last	UNION DESAR	ROLLOS ELECTRONICO
		HOME Menu		
IPU-100P	Configurat	tion Summary	State	us Monitor
	Main Version, Webserver Version:	V1.45S 18/06/2014, V1.22S 05/06/2014	LEDs:	(click to toggle)
Homo	MAC Address:	00.04:A3:C9:21:3E		
Home	IP Mode:	STATIC (MANUAL)		POWER ON
	Host Name:	IPU100		SERVER DOWN
SIP	IP Address / Subnet Mask:	192.168.0.238 / 255.255.255.0		REGISTER OK
	Gateway:	192.168.0.1		CALL IN
Intension	DNS Server 1 / DNS Server 2:	192.168.0.1 / 0.0.0.0		CALL OUT
	SIP Server IP:	192.168.000.254		CONFIG
Device	SIP Remote / Local Port:	05060 / 05060		
	UDP Local Port:	05004		
letwork	Device Extension / Display Hame:	2003 / 2003		
Architecture and an	Auth. Device Extension / Auth. Password:	2003 /		
Time	Default Call (Streaming):	3002	ACTIVATIONS:	EXTERNALS
/ une	UDE PA System:	ON		
	SIP Receiver Priority Level:	50	And a second	TL IN (MICALINE)
Date	SIP Streaming Priority Level:	03		TL OUT (SPEAKER)
	SIP Paging Desk Priority Level:	10	•	VOX ACTIVED
ssword	SIP Paging Desk Name:	IPU-100P Evac Paging Desk		PHANTOM ACTIVED
	IPU-100P Mode:	IPU100P (NORMAL)		
to Factory	VolP Codec:	G.722 ADPCM (8bits, 16KHz)		
	Audio III Type / Phantom Mode:	LINE Type / OFF		
eboot	BEEPER Mode / VOX Mode (Threshold):	ON / OFF (1.0V)		
ALL	PreVOX Time / PostVOX Time [seconds]:	005/010	LEVEL MONITOR:	
	TM OUT Activation Mode:	ON, ANY Incoming call	and the second sec	
	Output Volume:	128	VOX LEVEL (V):	
-	Output Bass / Treble:	0 dB at 20 Hz / +0.0 dB at 8 KHz		
	DESK.MIC III Volume:	127		
	EXT.MIC III Volume:	050		
de de la calencia de la c	Time to Expire Register [seconds]:	3600		
	ALIVE Mode (IPU-100P or IPU-1025P OHLY):	2 1		

NOTA: UNION DESARROLLOS ELECTRONICOS reserves the right to modify all or part of WEB server design in order to offer a better product to their customers, which is why we may appear different from pictures provided in this document and results that you can get the product you have purchased. If you have any doubts consult the technical department of UDE.

1 Menus.

This area specifies the different web pages with configuration parameters.

2 List of available Menus.

This area displays the menu selection icons that the user can select for your device configuration. When the user selects a different menu to the "HOME" (or Main) will be asked to enter a password. If the password is right and match any of the previously stored will then open the desired menu, if not the access will be denied.

2	http://172.23.57.13 está solicitando un nombre de usuario y una contraseña. El sitio dice: "Protected
Vombre de usuario:	
Contraseña:	



ATTENTION: Computer security is a crucial aspect in IP networks. Technical staff is recommended not to store the password default on computers where you can access unqualified personnel to modify the settings of IP equipment. If you have any doubt, refer to the technical competence to avoid security problems.



Summary of Configuration Parameters.

In this area you can check quickly, what are the basic parameters of the device's. Parameters are displayed relative to the Software Application version, the LAN settings (IP, MAC, DNS), the connection parameters to the SIP server (SIP Server IP, data ports, SIP Extension number, SIP authentication password, ...), volume values Dassigned to the audio inputs and outputs.

4 Status Monitor.

In this area you can see three zones:

LEDs status.

It shows in real time the status (on, off, flashing) of all indicators present on the front panel.

Activation signal status.

Shows the state of the activation signals of different basic functions such as: VOX activated, MIC activated, etc...

Sensor level status.

It shows the voltage measurement of the sensors included on the device: 24V Adaptor, 24V Backup Battery, VOX signal level detected, Microphone supply.

J Area 5: Time and Date.

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4.2 SIP CONFIGURATION (SIP).

The configuration page allows you to configure SIP parameters to ensure the connection to the installation server IPU-360 (SIP server). The parameters configured here must be consistent with SIP server parameters of the system.

SIP Con	Iguration Menu
IPU-100P	ar the new settings for the board below
Home	a bie new sectings to bie board below.
Enable SIP changes:	
SIP UDE PA System:	ON M
SIP Server IP:	192 168 000 254
Extension Remote Port:	05050
Local Port:	05050
UDP Local Port:	05004
Network Device Extension (Username):	2003
Authen, Device Extension (Username):	2003
Time Authen, Secret (Password):	
Display Ilame (Caller ID Ilame):	2003
Diale Default Call (Streaming):	3002
SIP Receiver Priority Level (Max:01min:59): Password	50
SIP Streaming Priority Level (Max:01min:59):	03
Reset to Factory IPU-100P SIP Paging Desk Priority Level (Max01min:99):	10
Time to Expire Register (seconds, MAX:7200min:0060):	3600
Reboot SIP Desk Hame:	PU-100P Evec Paging Desk

The configuration parameters are:

Enable SIP changes

In case the checkbox is checked, the SIP parameters are available to be configured. If not the configuration parameters are blocked.

UDE PA system

The signaling communication with the server is SIP. Furthermore due to the public address characteristics, the codifiers and decoders requires additional information inside the standardized datagram. Choose ON to use the UDE PA signaling information.

In case of priority or IPU-100P installations, the box must stay in ON option. In case of 100% SIP standard compliance OFF option.

SIP Server IP Address (format: XXX.XXX.XXX.XXX):

Defines the IP address where the SIP server host. It is required that the address contains the 12 numbers along with the 3 breakpoints.

Example: SIP Server IP: 168.168.0.254



¡Attention!

It is MANDATORY for the correct operation of the IP AUDIO devices of UNION DESARROLLOS ELECTRONICOS that the SIP Server IP address is FIXED address (static type).

Remote Port (format: XXXXX):

Define the management TCP port used by the IPU-360 (SIP server) to communicate with our IPU-100. The standard default value in the device is 05060, you should keep to ensure compatibility with different SIP servers. Remember to always use a configuration with 5 digits. *Example:* Remote Port: **05060**

Local Port (format: XXXXX):

Define the management TCP port used by the IPU-100 to communicate with the IPU-360 (SIP server). The standard default value in the device is 05060, you should keep to ensure compatibility with different SIP servers. Remember to always use a configuration with 5 digits. *Example:* Local Port: **05060**

UDP Remote Port (format: XXXXX):

Defines the data transmission UDP port (Voice / INFO) used by the IPU-360 (SIP server) to communicate with the IPU-100. The standard default value is 00000 (automatic mode), you should keep this value to ensure compatibility with different SIP servers. Remember to always use a configuration with 5 digits. *Example:* UDP Remote Port: **00000**

UDP Local Port (format: XXXXX):

Defines the data transmission UDP port (Voice / INFO) used by the IPU-100 to communicate with the IPU-360 (SIP server) on the installation. The standard default value is 05004 and it is recommended to keep compatibility with different SIP servers. Remember to always use a configuration with 5 digits.

Example: UDP Local Port: 05004

Device extension (username) (from 4 to 8 numbers):

It is the IPU-100 SIP identifier for registering to the IPU-360 (SIP server) to be identified as unique equipment in the SIP net, of the public address by IP protocol.

In the systems with UDE Audio equipments, the extensions must be contained in a specific rank:

Extensions from 1000 to 1999: Decoders

Extensions from 2000 to 2999: Audio codifiers

Extensions from 3000 to 3999: Music on hold equipments (do not use in other codifiers/decoders configuration) Extensions from 4000 to 4999: IP desk control (with IPU-100P).

Choose the extension number depending in which application the IPU-100 should work.

Some extensions ranks have additional features:

Codifier extension between 2000 and 2499, do not activate the TM OUT in the decoder.

Codifier extension between 2500 and 2999, activate the TM OUT in the decoder.

All extensions between 4000 and 4999 will activate the decoder TM OUT.

Exampl	e:	
	Local	Extension:

Example:

1002 2536 1589 4001

Authen. Device Extension (Username): (Max: 8 alphanumeric characters):

Defines the user id in the system when it is working in a secure transmission mode.

Authen. ID: 12345678 AreaCo 1

This parameter is optional, if not required then leave it blank.



Attention!

If you have questions about your authenticated user name or password, contact your Network Administrator or technical staff in charge of the IPU-360 configuration (SIP server).

Basic Alphanumeric characters are recommended (standard ASCII codes between 32 and 126), excluding special characters or accents to avoid to block the access in case of any network device or the server does not understand these characters.

Authen. Secret (Password): (Max: 8 alphanumeric characters):

Defines	the user	password	when it is	working ir	n a secure	transmission mod	e.

Example: Authen. PASSW.: **zX_0!%;#** (No utilizar caracteres especiales)

This parameter is required if the parameter "Authenticated ID" is active, otherwise please leave it blank.

Display Name (Caller ID Name): (format: XXXX):

Default Call (Streaming): (format: XXXX):

Define the extension to call forr activating the background music or for the voice message broadcast from a microphone.

Valid values for any extension must be between 3000 and 3999. Example: Default Call (streaming): 3400

SIP Receiver Priority Level (Max:01...min:99): (Not use)

SIP Streaming Priority Level (Max:01...min:99):

If the UDE PA system is active and the IPU-100 in codifier mode, a priority can be applied and the IPU-360 will manage. This priority should be between 01 (max priority) in consequence will cut other emitters and 99 (lowest priority).

These characteristics give tools to program de PA system over IP. If you need more information of the max number of priorities, consult the IPU-360 datasheet.

The **SIP Streaming Priority Level** must be configured with audio sources like MP3 players or Microphones like PZ-40 for Music on hold calls. It is a different priority from the **IPU-100P SIP Paging Desk Priority**, that only concerns desk control microphones.

IPU-100P SIP Paging Desk Priority Level (Max:01...min:99):

These characteristics give tools to program de PA system over IP, if the IPU-100 is linked with an IPU-100P (desk control), a priority desk can be applied. This priority must be between 01 (max priority) in consequence will cut other desk control and 99 (lowest priority).

These characteristics give tools to program de PA system over IP. If you need more information of the max number of priorities, consult the IPU-360 datasheet.

The IPU-100P SIP Paging Desk Priority Level is setting for IPU-100 linked with IPU-100P, is different from the SIP Streaming **Priority** for audio sources or microphones.

Time to Expire Register (seconds, MAX:7200...min:0060):

Register time for SIP server update, recommended time: 3600 seconds.

SIP Desk Name (Max: 32 alphanumeric characters):

The IPU-100P desk control, has a label identification name in the main screen to identified from other desk control in the installation. SIP Desk Name: Hall Hotel Las Vegas (20 characters including spaces)

0

NOTE: If the IPU-100 is not linked with an IPU-100P (desk control), this configuration parameter is disabled.



4.3 Extension SIP Configuration (ONLY IPU-100P mode).

The public address zone configuration with an IPU-100P desk control must be done with a IPU-100 codifier. It is not possible to make the desk control configuration with the touch screen. The extension web server of the IPU-100 menu will allow erasing all IPU-100P zone buttons or editing the PA buttons of the IPU-100P desk control.

The screen structure of the IPU-100P is:



To edit the IPU-100P zones, exists 2 ways:

- 1. Erasing the whole desk control memory.
- 2. Editing zones keeping the zones configuration.





4.3.1 ERASING & EDITING (Extensions)

Extension main page

In the "Extension" page click on: NEW DialPLAN

With this selection the IPU-100P begin the process to erase all the information in memory. The data structure will be the factory profile.

ude	UNION DESARROLLOS ELECTRO
IDU 100D	Groups and Dialplan Configuration Menu
IPO-TOUP	Changing the Dialplan
Home	This page is useful for changing the dialplan (extensions and groups) required by the IPU100P.
SIP Extension Device	CAUTION: The dialplan configuration setup requires a long time to perform it, but can be modified partially in different sessions from the WebServer (EDIT MODE). Please cancel this action if you can not finish it in the same session. For this operation it's mandatory to have connected an IPU-100P before selecting a NEW Dial Plan or Edit current one. Starting a NEW DialPlan requires up to 45 minutes to prepare the filesystem, but depends of data to clear could be less. Please be patient during this processThanks! If you have doubts, please don't hesitate to contact with the Network Admin.
Network Time	Do you want to start a NEW Dialplan updating session or enter in EDIT mode? If you have doubts please CANCEL
Date	NEW DiaPlan EDIT DiaPlan CANCEL
Password Reset to Factory Reboot	
1.1	

Erasing process page

Depending on the amount of information saved on memory, the erasing process can spend from 10 seconds to 44 minutes to erase all data.

The IPU-100P screen while the erase process is execute will keep out of work for any paging call. Also a deleting data message will be printed to give user information.



Zone edit page

When the erase process has finished, the webpage will be redirected to the zone edit webpage, also the touch screen of the IPU-100P will work.



4.3.2 P.A. ZONES EDIT PAGE (Extensions).

Each IPU-100 can be linked only with one IPU-100P. The connection between the codifier and the desk control must be done point-to-point, and other configuration must be rejected.

To access the edit zone page, click on "**Extension**" icon in the left menu and click : **EDIT DialPlan** If you did the erase memory process, you will be redirected to the PA zones edit page of the IPU-100P.

	Groups and Dialplan Configuration Menu
IPU-100P	Changing the Dialplan
Home	This page is useful for changing the dialplan (extensions and groups) required by the IPU100P.
SiP Extension Device	CAUTION: The dialplan configuration setup requires a long time to perform it, but can be modified partially in different sessions from the WebServer (EDIT MODE). Please cancel this action if you can not finish it in the same session. For this operation it's mandatory to have connected an IPU-100P before selecting a NEW Dial Plan or Edit current one. Starting a NEW DialPlan requires up to 45 minutes to prepare the filesystem, but depends of data to clear could be less. Please be patient during this processThanks! If you have doubts, please don't hesitate to contact with the Network Admin.
Network Time	Do you want to start a NEW Dialplan updating session or enter in EDIT mode? If you have doubts please CANCEL
	NEW DiaPlan EDIT DiaPlan CANCEL
Password	\wedge
Reset to Factory	
Reboot	
and the second second	

The zone edit page has two main areas, one is the general navigation and edition of the buttons that already exist in the desk control (IPU-100P) and another area allows editing one specific button, adding the label and the different extensions that will call.

	SNSION Configuration	00:32: FRI, 17/05/20
ude spear		UNION DESARROLLOS ELECTRONICO
	EXTENSION Co	onfiguration Menu
IPU-100P Home about	10N: Incorrect settings may cause IPU100P failure. Please be sure you parameters, please contact with the Network Admin.	ou press "Exit" for closing properly the edit session. If you have doubts
SIP	Group	p Definition
	First Prev	Next Last
Extension	Group ID:	#001 of 250
	Group Hame:	Zone 1 Remove GROUP
Device	Extension	n Assignament
Network	Extension ID:	#001 of 250
	Dial#[1000]:	Add EXTENSION NOTE: Valid from 1001 to 1250
Paseword Paseword Reset to Factory Reboot	Send data	5. Ext.
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IPU-100P

4.- DEVICE CONFIGURATION (WEBSERVER)

EDIT ZONE PAGE



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Button configuration example

This example contains the configuration of 3 IPU-100P buttons, with this characteristics:



	EXTERSION Co	ntigmation Mean	
Homa	CAUTION:Incorrect settings may cause IPU100P failure. Please be sure you about parameters, please contact with the Network Admin.	a press "Exil" for clos	sing properly the edit session. If you have doubts
SIP	Group	Definition	
1000	Fest Rev	Next Last	
densian	Group Br	#001 of 250	
	Group Hame:	Zona 1	Renove ORCUP
Device	Externion	Assignament	
Retwork .	Extremion ID:	#001 of 250	
	Biatr (1000)		Add EXTENSION NOTE Visit from 1001 to 1250
account			
fiebout	C Sens ses	ta.	

ZONE EDIT PAGE

Without any data inside the system, the webpage should look like:

- Edition of button 1.
- First extension to configure inside the button 1.



EXTENSION	Configuration Menu		
		BOTTO	N 1 EDITIC
CAUTION: Incorrect settings may cause IPU100P failure. Please be sure about parameters, please contact with the Network Admin.	rou press "Exit" for closing properly the edit	session. If you have doubts	_
Gro	p Definition		1001
First	Next Last		
Group ID	#001 of 250	Ζ(one 1
Group Name	Zona 1 Remove GROU	IP	
Extens	n Assignament		
Extension ID	#001 of 250		
2 Dial#[1XXX]	001 Add EXTENSIO	N NO 3 Vilid from 1001 to 1250	
1001			
•			
5 Send de	a Exit		

BOTTON 1 EDITION

The parameters to configure for button 1:

- 1. Button 1 label.
- 2. Extension to call: 001 (equal to 1001).
- 3. Confirm extension with: Add EXTENSION
- 4. Extension 1001 appears in the extension box.

5. In button number one has only one extension to call (1001), there is no other extension to configure and configuration must be uploaded. Click on button: Send data.

00.00	ude	IPU-100P P	aging Desk
1001			
Zona 1			
3	1		

Button 1 configuration has been saved and screen shows the new button.



EXTENSION Co	infiguration Menu		
			BOTTON 2 EDIT
CAUTION: Incorrect settings may cause IPU100P failure. Please be sure yo about parameters, please contact with the Network Admin.	u press "Exit" for closing	properly the edit session. If you have doubts	
Group	Definition		#002
First Prev	Next Last		
Group ID:	#001 of 250		Main room
Group Hame:	Comedor	Remove GROUP	
Extension	Assignament		
Extension ID-	#001 of 250		
2 2B Diat#[1XXX]:	002	Add EXTENSION NO 3 /s 3 Born 1001 to 1250	
1002, 1400			
4 4B			
5 Send data	Exit		

BUTTON 2 EDITION

The parameters to configure for button 2:

- 1. Button 2 label.
- 2. Extension to call: 002 (equal to 1002).
- 3. Confirm extension with: Add EXTENSION
- **4**. Extension 1002 appears in the extension box.
- **2B.** Type the second extension to call in button 2, this is extension 400 (equal to 1400).
- 3B. Confirm extension with: Add EXTENSION
- 4B. Extension 1400 appears in the extension box.

5. In button number two has only two extensions to call (1002, 1400), there is no other extension to configure and configuration must be uploaded. Click on button: Send data.

00.00		ude	IPU-100P Paging Desk
1001	#002		
Zone 1	Main room		
5		1	

Button 2 configuration has been saved and screen shows the new button.



BUTTON 3 EDITION

The parameters to configure for button 3:

- 1. Button 3 label.
- **2.** Extension to call: 003 (equal to 1003).
- 3. Confirm extension with: Add EXTENSION
- **4**. Extension 1003 appears in the extension box.
- **2B.** Type the second extension to call in button 3, this is extension 004 (equal to 1004).
- 3B. Confirm extension with: Add EXTENSION
- **4B.** Extension 1004 appears in the extension box.
- 2C. Type the second extension to call in button 3, this is extension 010 (equal to 1010).
- 3C. Confirm extension with: Add EXTENSION
- **4C.** Extension 1010 appears in the extension box.

5. In button number three has three extensions to call (1003, 1004 and 1010), there is no other extension to configure and configuration must be uploaded. Click on button: **Send data.**

Button 3 configuration has been saved and screen shows the new button.

00.00		ude	IPU-100P Paging Desk
1001	#002	#003	
Zone 1	Main room	Yard	
5		1	

BOTTON 3 EDITION

ucla



4.4 DEVICE CONFIGURATION. (Device).

This section allows you to configure the analog parameters and modes of the device.

		DEVICE Could			
IPU-100P		DEVICE Com	guration Men	u	
	This page allows the configuration of the DEVICE	's board settings. Er	nter the new se	ttings	for the board below:
Home		IPU-100P Mode:	IPU100P (NO	RMAL)	~
		Codec:	G.722 ADPC	M (Sbits	e,16KHz)
SIP	BEEPEP:	ON 💌	OFF	~	Phantom POWER
Extension	Audio III:	LINE type 💌	OFF	*	VOX function
	PreVOX Time [se	econds] (000-120):	005		
Device	PostVOX Time [se	econds] (000-120):	010		
	VOX Level Threshol	ld [Volts] (1.0-3.3):	1.0		
Network	Output	Volume (025-128):	128		
Time	Output Bass (Gain):	+0 dB 👻	20 Hz	~	Output Bass (Cut-off Frequency)
	Output Treble (Gain):	+0.0 dB 💌	8000 Hz	Y	Output Treble (Cut-off Frequency):
Date	DESK.MIC III V	Volume (070127):	127		
	EXT.MIC III V	Volume (010128):	050	_	
Password	TM OUT	Activation Mode:	ON, voice ca	alls:	×
Reset to Factory	ALIVE Mode (IP0-100P or	r IPU-1025P OIILY):	OFF		×
and the second s		Save	DEVICE		
Reboot					
and the second se					

IPU-100 Mode.

To set the mode of the IPU-100 between 3 options:

IPU-100P (Normal).

The IPU-100 will act as an audio emitter point (VOICE mode) being synchronized with the IP Paging Desk connected to the AUDIO LINK.



Attention! Do not use the IPU-100P Mode when no IP Paging Desk is connected to the AUDIO LINK terminal as it can lock the IPU-100 temporarily until you perform a reboot of the device.

VoIP Codec.

Allows selection of the codec to be used to encode both outgoing and incoming calls when the audio source is a microphone. The options are as follows:

G.711 (u-Law). 8 bits logarithmic compression and 8KHz sampling frequency. Quality: Low (As Factory Default).

G.711 (a-Law). 8 bits logarithmic compression and 8KHz sampling frequency. Quality: Low.

G.722(ADPCM). 8 bits Adaptive Linear Compression and 16KHz sampling frequency. Quality: Medium.

PCM. 16 bits without compression and 8KHz sampling frequency. Quality: Good.

PCM. 16 bits without compression and 16KHz sampling frequency. Quality: Very Good.

IPU-100P

4.- DEVICE CONFIGURATION (WEBSERVER)

ude

BEEPER function:

Activate the acoustic buzzer. OFF (as Factory Default). ON

Output Bass (Gain):

Filter can be used to supplement the low frequency response, from +0dB (default set) to +15dB. **Example:** +0dB (mín.) +15dB (max.)

Output Bass (Cut-off Frequency):

Filter cut-off frequency for supplement low frequency response.Example:20Hz (mín.)150Hz (max.)

Output Treble (Gain):

Filter can be used to attenuate/supplement the high frequency response, from -12dB to +10.5dB. **Example:** -12dB (max atenuation) +0dB (default) +10.5dB (max gain)

Output Treble (Cut-off Frequency):

Filter cut-off frequency for attenuate/supplementhigh frequency response.Example:1kHz (mín.)8kHz (Máx.)

DESK.MIC IN Volume (format: XXX):

Select between 070 and 127, the gain level to be applied to audio from the desk control IPU-100P connected to the IPU-100. This configuration parameter can only be used in IPU-100P mode Always use a 3-digit format. **Example:** 070 (min.) 090 127 (Max.)

EXT.MIC IN Volume (format: XXX):

Select between 010 and 128, the gain level to be applied to audio from the external microphone of the desk control (IPU-100P) connected to the IPU-100 (CM-23 is the recommended microphone). This configuration parameter can only be used in IPU-100P mode. Always use a 3-digit format.

Example: 010(min.) 090 128 (Max.)

TM OUT Activation Mode:

There are few input calls (depending on the extension) that allow the activation of this mode: - OFF.

- Any incoming call: Any incoming call with the server specifications will activate the TM OUT.

- Only voice calls: Only incoming calls from desk control (IPU-100P), will activate the TM OUT.

SERVER SPECIFICATIONS

Codifier extension between **2500** and **2999**, activate the TM OUT in the decoder. All extensions between **4000** and **4999** will activate the decoder TM OUT

4.5 TIME CONFIGURATION. (Time).

Select hour, minute and second on the 24h format, and always using 2 digits. Click on "Save TIME" to update the system clock.

	SID EXTENSION Configuration	22:45:56 SUN, 20/01/2013
ude		UNION DESARROLLOS ELECTRONICOS
and the second second	TIME Config	guration Menu
IPU-100	This page allows the configuration of the TIME's board settings. Ent	ter the new settings for the board below.
Home	Hour (hh):	22
SIP	Minute (mm):	45
	Seconds (ss):	66
Device Network Time Date Password Reset to Factory Reboot	Always use the format: (hl Example: Hour (hh): 22 Minute (mm): 45 Seconds (ss): 55	h/mm/ss)
Copyright	© 2013 - UNION DESARROLLOS ELECTRONICOS - Avda. Barcelona, 24 - Sant Joan	n Despi - Barcelona - Tel. +34 93 477 28 54 - Fax. +34 93 261 17 52

4.6 DATE CONFIGURATION (Date).

Enter the day, month and year desired, considering always use 2 digits format. Click on "Save DATE" to update the system calendar.

IRU 100	DATE Config	guration Menu
1-0-100	This page allows the configuration of the DATE's board settings. En	nter the new settings for the board below:
Home	Day (dd)	20
	Month (mm):	01
SIP	Year (yy):	13
Exension Device Network Time Date Password Reset to Factory Reboot	Always use the format: (dd/m Example: Day (dd): 20 Month (mm): 01 Year (yy): 13	vm /yy)

ude

4.7 RESET TO FACTORY (Reset to Factory)

The IPU-100 can be configured with the factory configuration.

	Reset to Factory Default Configuration Menu
IPU-100	Reset to Factory Default This page allows to recover the configuration of FACTORY for the board settings
Eip	CAUTION: This action could required to know system parameters to setup and reconnect again the device if you have doubts, please don't heatale to contact with the Network Admin.
Extension	Do you want to RESET the board to FACTORY DEFAULT? If you have doubts, please CANCEL.
Come	
Rebot	
Copyright @ 2	013 - UNION DESARROLLOS ELECTRONICOS - Avia: Barelona, 24 - Sant Joan Desol - Barcelona - Tel +34 93 477 20 54 - Fax, +34 93 291 17 52

4.8 REMOTE REBOOT (Reboot)

The IPU-100 can be remote rebooted just click to the **Reboot** icon on the left menu and confirm clicking on **REBOOT!** icon.



5.1 INITIALIZE PROCESS

When the device is initialize shows the first processing screen, in that moment the desk control is managing the information and synchronizing with the IPU-100 or IPU-1025 to be connected to the net.



The main screen have different areas:

08.15		ude	IPU-100P Paging Desk
1001	1002	1003	1004
Zona 1	Zona 2	Zona 3	Zona 4
C		1	

UC

5.- INITIALIZE PROCESS



5.2 PA BUTTONS DISPLAY

00.00	udē	IPU-100P F	aging Desk	
0001 0002	2 0003	0004	0005	ude
Zona-1 Zona-2	Zona-3	Zona-4	Zona-5	
0001 0002	2 0003	0004	0005	
Zona-6 Zona-7	Zona-8	Zona-9	Zona-10	
2 4 4	1			SPEECH

Example: For an installation with 7 PA zones, the touch screen will show only 7 buttons.



Example: For an installation of 23 zones, will exist 3 pages of 10+10+3 buttons.



5.- INITIALIZE PROCESS

5.3 MAIN SCREN DESCRIPTION.

The main screen have different areas:



A1 Area 1: System time

The time configured in the IPU-100 or IPU-1025.

A2 Area 2: SIP desk name

Identification name in the main screen to identified from other desk control in the installation with a maximum of 32 alphanumeric characters.

A3

Area 3: PA zone buttons.

The page has a maximum number of 10 zones and in the system can be until 25 pages, the whole system can manage 250 PA zones from one IPU-100P.

A4 Area 4: Navigation icons.

The navigation icons allow move through all pages of the desk control. The different icons are:

A1	00.00		ude	IPU-100P P	aging Desk	A2
	1001	1002	1003	1004	1005	
	Zone 1	Zone 2	Zone 3	Zone 4	Zone5	
	1006	1007	1008	1009	1010	A3
	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	
	•			<u> </u>		
	J		1			A4
Reset Cleans all se Index numb The number which range	lected PA zone butto er depend on the user of PA zone buttons i	ons. navigation on the screen	1 he total PA zone 1.	buttons program	nmed, the user ca	A4
 Reset Cleans all se Index numb The number which range Next page: Refresh PA z 	lected PA zone butto er depend on the user of PA zone buttons i ones to next page. I	ons. navigation on the screen In case to be in	1 he total PA zone n. the last it will go	buttons program the first one.	med, the user ca	an use it to know
 Reset Cleans all se Index numb The number which range Next page: Refresh PA z Page before Refresh PA z 	lected PA zone butto er depend on the user of PA zone buttons i ones to next page. I ones to page before	ons. navigation on tl is on the screen In case to be in e. In case to be	ן he total PA zone ו. the last it will go in the first one it	buttons program the first one. will go the last o	imed, the user ca	an use it to know
 Reset Cleans all se Index numb The number which range Next page: Refresh PA z Page before Refresh PA z Last page Refresh PA z 	lected PA zone butto er depend on the user of PA zone buttons i ones to next page. I ones to page before ones to the last pag	ons. navigation on the screen In case to be in e. In case to be	1 he total PA zone ۱. the last it will go in the first one it	buttons program the first one. will go the last o	nmed, the user ca	an use it to know



5.4 SELECTZONES.

The operator can select the PA zone buttons in order to send the voice message. Each PA zone selected will change the color from grey to blue, while there is no call in progress or until it is reset. All selected zones can be deselected individually just pressing on the button, when it is applied the button will change from blue to grey.

EXAMPLE: Selection of Zone 1

and VOICE MESSAGE



00.00		ude	IPU-100P	Paging Desk
1001	1002	1003	1004	1005
Zona 1	Zona 2	Zona 3	Zona 4	Zona 5
1006	1007	1008	1009	1010
Zona 6	Zona 7	Zona 8	Zona 9	Zona 10
১		1		



00.00		ude	IPU-100P	Paging Desk
1001	1002	1003	1004	1005
Zona 1	Zona 2	Zona 3	Zona 4	Zona 5
1006	1007	1008	1009	1010
Zona 6	Zona 7	Zona 8	Zona 9	Zona 10
3		1		

Tap the Zone 1 button (1001). Colour will change to blue.

Once the zone 1 is selected, press the PTT (speech). The selected zone will change the colour from blue to green, indicating the call is right processed.



4

SPEECH

When the system is ready to send the voice message the PTT (SPEECH) and the MESSAGE led indicator will turn on.





5 When the operator want to finish the connection release the SPEECH button, the system will close all calls and turn off the "MESSAGE" LED in the frontal panel.

Also the PA zones buttons change the color from GREEN to BLUE.





6 If the operator wants to send another message only to the Zone 1, just press the PTT SPEECH again

(the IPU-100P keeps in memory the last zone selection)



All buttons will change to GREY colour.

ATTENTION: The operator must keep pressing the SPEECH button until the end of the message.

5.- INITIALIZE PROCESS

EXAMPLE:

Selection of Zone 1, 2 and 4 and VOICE MESSAGE











Attention!

User must begin to speak when the SPEECH RED led is on.

Even if pressing the Speech button the "Message" LED is off, the IPU-100P will prompt a message in the up-right corner. Finally if the "Message" LED never turns on, contact the technical staff of the installation.



Tap the Zone 1 button (1001). Colour will change to blue.



Tap the Zone 2 button (1002). Colour will change to blue.



Tap the Zone 4 button (1004). Colour will change to blue.

4 Once the zone 1,2 and 4 are selected, **press the PTT button**. The selected zones will change the colour from BLUE to GREEN, indicating the call is right processed.

5 When the system is ready to send the voice message the PTT button and the MESSAGE led indicator will turn on.

6 Since then the operator, without realising the PTT button, can speak without any restriction of time.



7 When the operator want to finish the connection release the PTT button, the system will close all calls and turn off the MESSAGE LED.

Also the PA zones buttons change the colour from GREEN to BLUE.

MESSAGE





8 If the operator wants to send another message only to the Zone 1,2 and 4.

Just press the PTT button again

(the IPU-100P keeps in memory the last zone selection).

9 The operator can reset all button selection tapping on the **RESET** button. All buttons will change to GREY colour.