



REX451
Dual band GPRS Mobile Phone
GSM™

USER'S GUIDE
Reversion 0.00

Please be sure to read this manual carefully before using the mobile phone

SAFETY PRECAUTIONS

Road Safety Comes First Do not use hand-held phone while driving. Park the vehicle first. Remember that in some countries, it is illegal to use hand-held phone while driving.

Switch Off When Refueling Do not use the phone at a refueling point (service station) or near fuels or chemicals.

Switch Off In Aircraft Wireless phones can cause interference. Using them on aircraft is both illegal and dangerous.

Switch Off In Hospital Follow any regulations or rules. Switch phone off near medical equipment.

Respect Special Regulations Follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger (in a hospital for example).

Interference All wireless phones may be subject to radio interference, which may affect their performance.

Use Qualified Servicing Only qualified service personnel must repair equipment.

Use Sensibly Do not touch the antenna area unnecessarily when the phone is switched on.

Emergency Calls Ensure the phone is switched on and in service. Enter the emergency number and press [TALK]. Give your location. Do not end the call until told to do so.

Non-Ionising Radiation No part of the human body should come into contact with the antenna area during normal operation.

PHONE INFORMATION

UNPACKING

Thank you for purchasing REX451. Check whether your phone comes equipped with all the necessary components, as shown in the list below. If the product is defective or there is a component missing, immediately contact the office where you bought our phone.

- Phone
- Li-ion battery
- AC/DC Adapter
- User manual
- Quick reference card

PHONE LAYOUT

<Front>

<Back>

KEY DEFINITION

Key	Description
[TALK]	Used to make a call or to receive an incoming call On idle mode, pressing [TALK] shall bring “Dialed Call History”
[END/POWER]	Used to end a call, to cancel a function, and for power on/off
[SOFT-KEY]	Used to select the functions displayed on the lower part of the screen. The [L/SOFT-KEY] controls options shown in the left select of the screen, and the [R/SOFT-KEY] controls options shown on the right of the screen.
[NAVIGATION]	Used to move the cursor. On standby mode ; pressing “Up” – enter into “MP3” pressing “Down” – enter into “Camcorder” pressing “Left” – enter into “Radio” pressing “Right” – enter into “Shortcut”
[0+]	Used to enter “0” or hold it down to enter numbers with an international access code “+”
[1]~[9]	Used to enter the numbers

ICON EXPLANATION

Icon	Description
	Signal strength
	Battery charge indication

	Lock keypad
	Ring
	Vibration
	Ring & vibration
	Vibration then ring
	Set alarm
	Roaming
	Missed call show
	New message

GETTING STARTED

INSTALLING THE SIM CARD

1. Keep all miniature SIM cards out of the reach of small children.
2. The SIM card and its contacts can easily be damaged by scratches or bending. So be careful when handling, inserting or removing the card.
3. Before installing the SIM card, always make sure that the phone is switched off and then remove the battery.
4. Remove the battery, and insert and slide the SIM card under the two tabs, ensuring that the cut corner is top left and the gold contacts of the card face onto the phone.

INSTALLING THE BATTERY

1. If necessary, switched off the phone by holding down [END/POWER] until the

closing animation is displayed.

2. Press and slide down the battery cover.
3. Install the battery cell after guarantee the contact point between battery cell and phone.
4. Press and slide up the battery cover until it clicks.

CHARGING A BATTERY

1. Connect the plug of the charger into the jack on the bottom side of the phone by right direction.
2. Plug the charger into a standard AC wall outlet.
3. When the battery is charging, the bar of battery icon will be filled in and out continuously and the LED of charger will be turned on in green.

NOTE

1. You must fully charge the battery before using your phone for the first time.
2. A discharged battery is fully recharged in approximately 2-3 hours.
3. When the battery is completely discharged, there may be a case that the phone does not show charging display for a few minutes even though you connected the charger. It is normal operation and just keep charging for a few minutes more until the phone shows charging display normally.

LOW BATTERY INDICATOR

1. When the battery is weak and only a few minutes of talk time remain, the battery sensor will let you know by blinking an empty battery icon and you will hear a warning tone and a message of "Low Battery" will be displayed.
2. When the battery becomes too weak for the phone to operate, it switches off automatically.

SECURITY NUMBER MANAGEMENT

PIN code

1. The PIN (Personal Identification Number) code protects your SIM card against unauthorized use. The PIN code is usually supplied with the SIM card. When the PIN code request is enabled, the code is asked each time the phone is switched on.
2. If you key in an incorrect PIN code three times in succession, key in the PUK code and press the [L/SOFT-KEY] for "OK".
3. Key in the new PIN code again and press the [L/SOFT-KEY] for "OK".

PIN2 code

1. The PIN2 code, supplied with some SIM card, is required to access some functions, such as charging unit counters. These functions are only available if supported by your SIM card.
2. If you key in an incorrect PIN2 code three times in succession, key in the PUK2 code and press the [L/SOFT-KEY] for "OK".
3. Key in a new PIN2 code and press the [L/SOFT-KEY] for "OK".
4. Key in the new PIN2 code again and press the [L/SOFT-KEY] for "OK".

PUK code

1. The PUK (Personal Unblocking Key) code is required to change a blocked PIN code. The PUK code may be supplied with SIM card. If not, contact your local service provider.
2. If you key in an incorrect PUK code ten times in succession, the SIM card cannot be used any more. Contact your service provider for a new card.
3. You cannot change the PUK code. If you lose the code, contact your service provider.

PUK2 code

1. The PUK2 code, supplied with some SIM card, is required to change a blocked PIN2 code.
2. If you key in an incorrect PUK2 code ten times in succession, you cannot use the functions requiring the PIN2 code. Contact your service provider for a new card.
3. You cannot change the PUK2 code. If you lose the code, contact your service provider.

Barring password

The 4-digit barring password is required when you use “CALL BARRING” function. The password is factory set to “1122”.

POWER ON/OFF

1. Hold down [END/POWER] for more than one second to switch the phone on.
2. When the phone has registered with an approved network provider, the idle screen is displayed on the display.
3. When you wish to switch the phone off, press and hold [END/POWER] for more than two seconds.

MAKING A CALL

1. When the idle screen is displayed, key in the area code and phone number, and press [TALK].
2. You can make a call to the last outgoing call number simply by pressing [TALK] twice.
3. You can make a call to the last 10 outgoing call numbers simply by pressing [TALK] and selecting the phone number.
4. To edit the phone number to call, press [R/SOFT-KEY]

SPEED DIALING

1. You can assign 1~9 key for speed dialing. Refer to "SETTINGS"- "PHONE SETUP"- "SPEED DIAL" for detail.
2. To make a call by speed dialing, hold down any of 2~9 key you want to dial.

ENDING A CALL

When you have finished your call, briefly press [END/POWER].

REJECTING A CALL

If you want to reject a call, press [END/POWER].

ANSWERING A CALL

1. When somebody calls you, the phone rings. If the caller can be identified, the caller's phone number or name (if stored in your phonebook) is displayed.
2. To answer a call, press [TALK].

RING TONE

You can set 4 kinds of ring mode as follows ;

- Just ring
- Just vibrate
- Ring & Vibrate
- Vibrate then ring

MAKING AN INTERNATIONAL CALL

1. Hold down [0+] for the international prefix. The + character appears.
2. Key in the country code, area code and phone number, and press [TALK].

MAKING AN EMERGENCY CALL

1. This is a function that the user can use when in an emergency or dangerous situation. The user can dial "112" whenever they are to make an emergency call.
2. Even if your phone is receiving a traveling service in another country, when you dial "112" the network will automatically connect you to the emergency service of that country.
3. You can make an emergency call without entering the phone password, even when "PHONE LOCK" is set "ON" your phone.
4. You can use the emergency call function without entering PIN even if the PIN is activated on your phone (ex, "112").

MISSED CALL

1. You can review maximum 10 missed calls with number, date and time together.
2. For missed call,  icon and number of missed call are displayed on the bottom right of the screen. Press [R/SOFT-KEY] for detail information of latest missed call and move cursor by using [NAVIGATION] for other missed calls.
3. Or, use menu option "MENU"- "CALL HISTORY"- "MISSED CALLS" for detail of missed call.

CALL HOLDING

1. Press [*] to answer the second incoming call while keep the first call.
2. Press [END/POWER] to end both two calls.
3. To switch between two calls, press [TALK].

3 PARTY CALLING

1. If a holding call and an activating call existing in a call, you can press [L/SOFT-KEY]

and select “Connect to Phone Meeting” in call menu to set up a phone meeting.

2. You can start a new call or answer new incoming call (when call waiting is activated) after successful establishment.

MENU

PHONEBOOK	MESSAGES	CALL HISTORY
Quick Search Search Entry Add New Entry Copy All Delete Caller Group Extra Number Settings	SMS MMS Chat Voicemail Server Broadcast Message	Missed Calls Dialed Calls Received Calls Delete Call Log Call Time Call Cost SMS Counter GPRS Counter
SETTINGS	MULTIMEDIA	FILE MANAGER
Phone Setup Call Setup Network Setup Security Setup Restore Factory Settings	Camera Image Viewer Video Recorder Video Player Audio Player Sound Recorder Melody Compose	
FUN & GAMES	USER PROFILES	ORGANIZER

Games Themes Game Setting	General Meeting Outdoor Indoor Headset	Calendar To Do List Alarm World Clock
SERVICES	EXTRA	SHORTCUTS
Movistar (STK) WAP Data Account	Calculator Unit Converter Currency Converter Health	10 Menus (List)



PHONEBOOK

QUICK SEARCH

1. You can quickly search the phonebook list, and find the record
2. Press [L/SOFT-KEY] to display the following sub-menu items ; "View", "Edit", "Delete", "Copy", "Move", "Duplicate".

SEARCH ENTRY

1. Enter character or name to search in the phonebook list and you can find the record.
2. Press [L/SOFT-KEY] for "Option" will bring the following options ;
View : Used to show the detail contact items.

Edit : Used to edit the contact items.

Delete : Used to delete the current contact.

Copy : Used to copy the contact between phone and SIM.

Move : Used to move the contact. Between phone and SIM.

Duplicate : Used to duplicate the contact.

ADD NEW ENTRY

1. Select to add contact to SIM or to the phone.
2. Type “Name”, (Mobile) Number”, “Home Number”, “Company Name”, “Email Address”, “Office Number”, “Fax Number”, “Associate Picture”, “Associate Video”, “Associate Sound”, “Caller Group”.
3. After finishing typing, press [L/SOFT-KEY] for “OK” to save.

COPY ALL

1. It is used to copy the records between SIM card and the phone, including copying all records from SIM to the phone or from the phone to SIM.
2. Available options : “From SIM”, “From Phone”.

DELETE

1. You can delete saved contacts.
2. Available options : “From SIM”, “From Phone”, “One by One”.

CALLER GROUP

1. If you set a specific items like a ring tone or picture etc., for a certain group, when a member of that group call to you, you can recognize the caller is from what group.
2. The category of caller group is ; “Friends”, “Family”, “VIP”, “Business”, “Others”.

3. Group detail items are ; “Group Name”, “Ring”, “MIDI”, “Picture”, “Color”, “Member List”.
4. Add a contact on “Member List”.

EXTRA NUMBER

1. You can view the following items in this menu ; “Own Number”, “Service Dial Number”, “SOS Number”.
2. These numbers were read from SIM card and you cannot modify them.

SETTNGS

Memory Status

1. It reports the usage information with SIM and phone.
2. The format of display is “Used amount / the whole available amount”.

Preferred Storage

1. User can save number in SIM or phone.
2. After select SIM or phone menu, press “OK”.
3. It also reports the saved number in SIM and phone.

Fields

1. User can select many fields using for contact item.
2. In fields menu, user can select fields which you want select.
3. Fields table ; “Home Number”, “Company Name”, “Email Address”, “Office Number”, “Fax Number”, “Associated Picture”, “Associated Video”, “Associated Sound”, “Caller Group”.
4. Press [L/SOFT-KEY] to select these fields.



MESSAGES

SMS

Inbox

1. REX451 puts SMS in “Inbox” and manages them.
2. You can use [NAVIGATION] to select the message you want to browse from message list.
3. Press [L/SOFTKEY] for “OK” to view content of selecting SMS record, including name, content, time and date etc.,
4. Press [L/SOFT-KEY] for “Option” to show group of sub-menu ;

Reply : Reply SMS

Delete : After select this menu, a POP Up “Delete?” window is displayed. Press [L/SOFT-KEY] to delete current SMS, press [R/SOFT-KEY] to go back.

Edit : Write or edit SMS

Forward : Forward SMS

Chat : Start chatting

Delete All : Delete all messages

User Number : After select this menu, show sender name and phone number. Press [L/SOFTKEY] for “Option” will bring the following sub-menu ;

Dial : Dial current number.

Save to Phonebook : Save current number in SIM or phone.

Save Object : Save object in phone.

Outbox

1. Select SMS you want from the list.
2. On showing SMS, press [L/SOFT-KEY] for “**Option**” will bring you the following menus ;

Delete : After select this menu, a POP Up “Delete?” window is displayed. Press [L/SOFT-KEY] to delete current SMS, press [R/SOFT-KEY] to go back.

Send : The operation is same to “White Message”. There are three options ; “Send Only”, “Send to Many”, “Send by Group”.

Edit : Write or edit SMS.

User Number : After select this menu, show sender name and phone number. Press [L/SOFTKEY] for “Option” will bring the following sub-menu ;

Dial : Dial current number.

Save to Phonebook : Save current number in SIM or phone.

Write Message

1. You can use this menu to write a message and edit message content up to 612 characters in maximum.
2. During writing a message, pressing [L/SOFT-KEY] will bring the following sub-menus;

Done : After finish writing a message, select this menu for further process to send a written message. Available options are ; “Send Only”, “Save and Send”, “Save”, “Send to Many”, “Send by Group”.

Use Template : REX451 provides various template used often to help your writing a message. Select a template you want to write. Available options are ; “Call Me Now”, “How About Lunch?”, “Be Right Back”, “I Am Busy Now...”, “Sorry”, “Thank You”, “How Was The Day?”, “Long Time, We Met”, “I Love So Much”, “How Are You?”.

Insert Object : You can insert various objects in your message. Available options are ; “Picture”, “My Picture”, “Animation”, “My Animation”, “Melody”, “My Melody”,

“Sound”.

Format Text : Providing various allocation type of your text. Available options are ; “Alignment”, “Paragraph”.

Input Method : Available options are ; “Multitap ABC”, “Multitap abc”, “Smart ABC”, “Smart abc”, “Smart Abc”, “Numeric”, “Multitap BoPoMo”, “Smart BoPoMo”, “Traditional Chinese Stroke”, “Insert Symbols”.

3. During writing a message, press [R/SOFT-KEY] for “Clear”.
4. After finish writing a message, press [L/SOFT-KEY] for “Option” and select “Done”. Then just follow the process shown.

Template

1. REX451 supports up to 10 of template.
2. You can modify or erase the template message.
3. Use [NAVIGATION] to select a template message.
4. On a template message, pressing [L/SOFT-KEY] will bring the following sub menus ;
Edit : Edit the current template message.

Erase : Erase the current template message.

Message Settings

Profile Setting : You can have 2 profile options. To edit the profile, press [L/SOFT-KEY] for “Edit”. Editable items are ; “Profile Name”, “Service Center”, “Valid Period”, “Type”.

Memory Status : You can check the capacity of memory in phone and SIM for message.

Preferred Storage : You can check the capacity of memory in use in phone and SIM for message.

Preferred Bearer : You can set the priority of connection to the network. Options are ; “Prefer GPRS”, “Prefer GSM”, “GPRS Only”, “GSM Only”.

MMS

1. The maximum memory size that REX451 supports for MMS is up to 50kb.
2. REX500 supports the following type of file for MMS
Graphic file : GIF, BMP, JPEG.
Audio file : MIDI (SP-MIDI), AMR, iMelody audio.

Write Message

1. You can press [L/SOFT-KEY] for "Edit" to write phone number ("Add Number") or e-mail address ("Add E-mail") for the items of "To", "CC", "BCC". To input symbols for e-mail address like . or @, press [*].
2. You can press [L/SOFT-KEY] for "Edit" to write the subject.
3. You can press [L/SOFT-KEY] for "Edit" to write the content. Available options are ; "Add Text", "Add Image", "Add Audio", "Add Attachment".
4. After finish writing a message, press [R/SOFT-KEY] for "Done". You can have following options for further process ; "Send Only", "Save And Send", "Save to Drafts", "Send Options", "Exit".

Inbox

1. Select the message you want to see, then press [L/SOFT-KEY] for "OK".
2. The message may include a file type that REX500 does not support.
3. During reading a message, press [L/SOFT-KEY] will bring the following options ;

Reply : Reply MMS

Edit : Write or edit MMS

Delete : After select this menu, a POP Up "Delete?" window is displayed. Press [L/SOFT-KEY] to delete current MMS, press [R/SOFT-KEY] to go back.

Delete All : You can delete all MMS in "Inbox".

Forward : Forward MMS

User Number : After select this menu, show sender name and phone number.
Press [L/SOFTKEY] for “Option” will bring the following sub-menu ;

Dial : Dial current number.

Save : Save current number in SIM or phone.

Save Object : Save object in phone.

Outbox

1. Select MMS you want from the list.
2. On showing MMS, press [L/SOFT-KEY] for “Option” will bring you the following menus ;

View : You can see the content.

Properties : You can check the items of MMS like “To”, “CC”, “BCC”, “Subject”, “Date (& Time)” and “File Size”.

Resend : You can send the current message again.

Delete : After select this menu, a POP Up “Delete?” window is displayed. Press [L/SOFT-KEY] to delete current SMS, press [R/SOFT-KEY] to go back.

Delete All : You can delete all MMS in “Inbox”.

User Number : After select this menu, show sender name and phone number.
Press [L/SOFTKEY] for “Option” will bring the following sub-menu ;

Dial : Dial current number.

Save : Save current number in SIM or phone.

Drafts

1. Select MMS you want from the list.
2. On showing MMS, press [L/SOFT-KEY] for “Option” will bring you the following menus ;

View : You can see the content.

Properties : You can check the items of MMS like “To”, “CC”, “BCC”, “Subject”, “Date (& Time)” and “File Size”.

Send : You can send the current message.

Edit Message : You can send edit the current message.

Delete : After select this menu, a POP Up “Delete?” window is displayed. Press [L/SOFT-KEY] to delete current SMS, press [R/SOFT-KEY] to go back.

Delete All : You can delete all MMS in “Inbox”.

User Number : After select this menu, show sender name and phone number. Press [L/SOFTKEY] for “Option” will bring the following sub-menu ;

Dial : Dial current number.

Save : Save current number in SIM or phone.

Templates

1. REX500 supports up to 5 of template.
2. Each template has 10 seconds of playing time.
3. To use template, select a template you want. Pressing [L/SOFT-KEY] for “Option” will bring you the following menu ;

View : Activate the selected template

Properties : You can check the items of MMS like “To”, “CC”, “BCC”, “Subject”, “Date (& Time)” and “File Size”.

White Message : You can fill the item like “To”, “CC”, “BCC”, “Subject”, “Content”

4. “Edit Content” has various following option ; “Edit Text”, “Remove Text”, “Add Attachment”, “Insert New Slide”, “Preview”, Slide Time”.
5. For further process, please refer to the “Write Message” above.

Message Settings

Sending : You can set the items of “Validity Period”, Delivery Report”, Read Report”, “Priority”, “Slide Time”, “Delivery Time”.

Retrieval : You can set the items of “Home Network”, “Roaming”, “Read Report”, “Delivery Report”.

Filters : You can set the items of “Anonymous”, “Max Size”, “Advertisement”.

Edit Profile : You can set the items of “FET MMS”, “CHT MMS”, “TCC MMS”, “TAT MMS”, “mobeelife MMS”, “MMS Profile6” activate. To activate or edit the item, press [L/SOFT-KEY] for “OK”.

Auto Signature : You can add your signature on MMS automatically.

Memory Status : You can check the memory status.

CHAT

1. REX451 support up to 2 “Chat Room”.
2. Select chat room and enter into “Chat Room Info”.
3. Type your nickname and destination phone number.
4. Start chatting.

VOICE MAIL SERVER

1. To use this menu, you have to ask to your service provider to activate this function.
2. REX451 support up to 2 phone numbers of voice message center.
3. Select a phone number of voice message center, then you can have 3 options ;
Edit : You can edit the phone number of voice message center.

Connect to Voice : You can call to the current voice message center.

Note The number of Telefonica voice mail server is “*86”.

BROADCAST MESSAGES

Receive Mode

You can set activation of “Info Service” on or off.

Read Message

With "Info Service" activated on, you can view the messages which are provided your service provider.

Languages

You can set the language type you want.

Channel Setting

Select : You can select the channel you want.

Add : You can add the channel you want. Type "Channel Title" and "Channel ID".

Edit : You can edit the existing channel.

Delete : You can delete the channel you want.



CALL HISTORY

MISSED CALLS

1. You can view the missed call list with this menu.
2. Press [L/SOFT-KEY] to enter into the sub menu.
3. There are 4 options are provided for users ; "Delete", "Save to Phonebook", "Dial", "Edit".

DIALED CALLS

1. You can view the dialed call list with this menu.
2. Press [L/SOFT-KEY] to enter into the sub menu.

3. There are 4 options are provided for users ; “Delete”, “Save to Phonebook”, “Dial”, “Edit”.
4. You can also view the dialed call list simply by pressing [TALK] on idle mode.

RECEIVED CALLS

1. You can view the received call list with this menu.
2. Press [L/SOFT-KEY] to enter into the sub menu.
3. There are 4 options are provided for users ; “Delete”, “Save to Phonebook”, “Dial”, “Edit”.

DELETE CALL LOG

1. Press [L/SOFT-KEY] to enter into the sub menu.
2. There are 4 options are provided for users ; “Missed Calls”, “Dialed Calls”, “Received Calls”, “Delete All”.
3. Press [L/SOFT-KEY] for “OK” to delete the selected record.

CALL TIME

1. This menu is used to check call duration functions.
2. It has following options ;

Last Call Time : Used to show the duration of the last call.

Total Sent : Used to show the duration of dialed calls.

Total Received : Used to show the duration of received calls.

Reset All Time : Used to reset all the duration items.

CALL COST

1. This menu is used to set call cost functions.

2. It has following options ;

Last Call Cost : Used to show the cost of the last call.

Total Cost : Used to show the cost of total call.

Reset Cost : Used to reset all the cost items.

Max Cost : Used to show and set the credit of cost.

Price per Unit : Used to show and set the price per unit of cost of a call.

SMS COUNTER

You can view the sent or received message counter.

GPRS COUNTER

1. This menu is used to view the data call counter through GPRS network.

2. It has following options ;

Last Sent : Used to show the last sent GPRS data call.

Last Received : Used to show the last received GPRS data call.

All Sent : Used to show the all sent GPRS data calls..

All Received : Used to show the all received GPRS data calls.

Reset Counter : Used to reset all counter items.



SETTINGS

PHONE SETUP

Time and Date

Set Home City : Set your time zone from the list.

Set Time/Date : You can set your time and date with this menu.

Set Format : You can set the format of time and date with this menu.

Schedule Power On/Off

1. You can set time to power your phone on/off automatically.
2. You can set 4 times in maximum.
3. Set "Status", "Power on/off" and "Time".

Language

1. You can set the language with this menu.
2. The available options are ; "English", "Spanish", "Portuguese".

Preferred Input Methods

1. You can set the text input method with this menu.
2. The available options are ; "Multitap ABC", "Multitap abc", "Numeric", "Smart ABC", "Smart abc", "Smart ES(Spanish)", "Smart es", "Smart PT(Portuguese)", "Smart pt".

Display Characteristic

Wallpaper :

System : REX451 supports up to 15 wallpapers for you to select.

User Define : You can download a picture you want and use it for wallpaper.

Screen Saver :

Setting : You can set status of screen saver on or off and waiting time.

Select : The operation of this menu is same with "Wallpaper".

Show Date and Time : You can set showing of date and time on idle mode on or off with this menu.

Show Owner Number : You can set showing of your phone number on idle mode on or off with this menu.

Contrast

You can adjust the contrast of your screen with level 1~15.

Greeting Text

1. If you set this menu on, whenever you power on the phone, phone will give you "Greeting Text" before entering in to idle mode.
2. You can set "Welcome Note" function on or off and edit the "Welcome Note".

Speed Dial

This menu enables you to dial the saved phone number just by hold down a assigned key for more than 2 seconds.

Enable Speed Dial : You can set activate the speed dial on or off.

Set Number : You can set the phone number for the numeric keys from 1~9.

Dedicated Key

1. REX451 offers 40 menu items that are used most often. You can select 4 menu items in maximum and assign the menu items for [NAVIGATION].
2. You can enter into the selected menu items simply by pressing [NAVIGATION] down on idle mode.

Auto Update of Date and Time

This menu can update the date & time through network.

CALL SETUP

Send Caller ID

Set By Network : If you want to activate this menu, press [L/SOFT-KEY] for "OK".

Hide ID : If you want to hide your phone number, press [L/SOFT-KEY] for "OK".

Send ID : If you want to send your phone number, press [L/SOFT-KEY] for "OK".

Call Waiting

Activate : Enables you to activate "Call Waiting".

Deactivate : Enables you to deactivate "Call Waiting".

Query Status : Enables you to check if your phone activate "Call Waiting" on or off.

Call Diverter

Divert All Voice Calls : Diverts all voice calls to the other phone number you assigned.

Divert If Unreachable : Diverts a call did not reach you to the other phone number you assigned.

Divert If No Answer : Diverts a call you did not answered to the other phone number you assigned..

Divert If Busy : Diverts a call when you are on another line to the other phone number you assigned.

Divert All Data Calls : Diverts data call to the other phone number you assigned.

Cancel All Divert : Cancel all your settings with "Call Divert".

Call Barring

Outgoing Calls : Bar outgoing calls from your phone.

Incoming Calls : Bar incoming calls to your phone.

Cancel All : Cancel all your settings with "Call Barring".

Change Barring Password : Change the password of "Call Barring".

Line Switching

This function is activated by network. The user can ask 2 phone numbers to your service provider. Both number supports receiving incoming call but only one number support dialing outgoing call.

Call Time Reminder

1. You can set alarm for your calling time.
2. Available options are ; "Off", "Single", "Periodic"
3. If you want to set "Single" or "Periodic", you have to set the duration, too.

Call Time Display

If you set this menu activate on, your calling time will be displayed on the screen during your call.

Auto Redial

With this function activated on, your phone will redial your unconnected call automatically.

Closed User Group

The closed user group function enables you, connected to a PLMN (Public Land Mobile Network) and possibly also other networks, to form closed user groups to and from which access is restricted. A specific user may be a member of one or more closed user groups.

NETWORK SETUP

Network Selection

There are two options ; "Automatic" and "Manual". Phone can select the network through the information in SIM card.

Preferred Networks

With this function, you can select any preferred networks in the list.

Band Selection

There are some frequency bans, and you can select the band according to the local network.

Note **Telefonica Mexico provides 1900MHz band.**

GPRS Connection

GSPS connection is set with one available option of "When Needed" by the request of service provider.

SECURITY SETTINGS

SIM Lock

Refer to the "Security Number Management" on page 8.

Phone Lock

With this function, you can lock your phone to avoid any abuse of your phone from others. If you activate this function on, every time you power on the phone, you have to input the correct password. The password is factory set to "1122".

Auto Keypad Lock

With this function, the phone will be locked automatically after assigned time interval on beginning of idle mode. If you want to set auto key lock off, set the time interval "None".

Fixed Dial

This function can limit dial function. With this function activated on, you can dial numbers only in the fixed dial list. You can add, edit or delete the numbers in the fixed dial list. To activate this function on, you need to input correct PIN2.

Barred Dial

This function can limit dial function. With this function activated on, you cannot dial numbers in the barred dial list. You can add, edit or delete the numbers in the barred dial list. To activate this function on, you need to input correct PIN2.

Change Password

Change PIN : Refer to the "Security Number Management" on page 9.

Change PIN2 : Refer to the "Security Number Management" on page 9.

Phone Lock Password : You can change phone lock password. If you want to change the password, input the current password, then input the new password, and confirm the new password. "Security Code" is factory set to "1122" initially.

RESTORE FACTORY SETTINGS

You can initialize the current phone setting to factory setting. To activate this function, you need to input correct password. The password is factory set to "1122". Please make sure if you activate this function, all of your current setting will not be restored again.



MULTIMEDIA

CAMERA

1. If you select "Camera" menu, a image will be captured on the screen.
2. To take a photo, press [R/SOFTKEY] for "Capture".
3. The taken photo shall be generated in JPEG format.
4. For more technical setting, press [L/SOFT-KEY]. Available options ;

To Image Viewer : Enables you to save the photo(s) you took.

Camera Setting : Enables you to set the environmental items of "White Balance", "Shutter Sound", "EV", "Band".

Image Setting : Enables you to set the image items of "Image Size", "Image Quality".

Effect Setting : Enables you to set the effect of photo with 6 options.

Add Frame : Enables you to set "Stick Frame" with 11 options.

Cont Shot : Enables you to set "Bust Shot" with 5 options.

Delay Timer : Enables you to set "Self Timer" with 4 options.

Restore Default : Enables you to factory set the current settings.

IMAGE VIEWER

1. You can visit this menu to view all your photo saved.
2. Press [L/SOFT-KEY] to bring the following more options ;

View : View all saved photo.

Browse Style : Select browse style of photo ; “List” or “Matrix”.

Forward : Forward the selected photo to “To Wallpaper”, “To Screen Saver”, “To Phonebook”, “To MMS” and “To EMS”.

Rename : Change the file name of selected photo.

Delete : Delete the selected photo.

Delete All Files : Delete all photos in “Photo Gallery” list.

Sort : Sort the files with the following options ; “By Name”, “By Type”, “By Time”, “By Size”, “None”.

VIDEO RECORDER

1. If you select “Video Recorder” menu, a image will be captured on the screen.
2. If you want to record a video clip of your side, slide left the camera locker to turn the camera back to your side.
3. To record a video clip, press [R/SOFTKEY] for “Record”, then you can see the black dot under the center of the image turns to red and the timer on the right side of red dot begins counting.
4. For more technical setting, press [L/SOFT-KEY]. Available options ;

To Player : Enables you to save the video clip you recorded.

Camcorder Setting : Enables you to set the environmental items of “White Balance”, “EV”, “Banding”, “Video Quality”.

Effect Setting : Enables you to set the effect of photo with 6 options.

Restore Default : Enables you to factory set the current settings.

VIDEO PLAYER

1. You can visit this menu to view all your video clip saved.
2. Press [L/SOFT-KEY] to bring the following more options ;

Play : Play all saved video clips.

Forward : Forward the selected video clip to "To Screen Saver".

Rename : Change the file name of selected video clip.

Delete : Delete the selected video clip.

Delete All Files : Delete all video clips in "Video Player" list.

Sort : Sort the video clips with the following options ; "By Name", "By Type", "By Time", "By Size", "None".

AUDIO PLAYER

1. On "Music Player" screen, the keys are assigned as follows ;
[U/NAVIGATION] : Play/stop.
[D/NAVIGATION] : Hold the play.
[L/NAVIGATION]/[R/NAVIGATION] : Move the previous/next song.
2. Press [L/SOFT-KEY] for "List" to bring the list of songs.
3. Press [L/SOFT-KEY] again to bring the following options ; "Play", "Detail", "Add to Rings", "Refresh List", "Settings", "Set Volume".
4. "Settings" has the following sub-menus ; "List Auto Gen", "Skin", "Repeat", "Shuffle", "Background Play".

SOUND RECORDER

1. REX451 supports voice recording function through this menu.
2. On "Record" screen, you can find the list of recording.
3. The file is generated in ".amr" format.
4. Press [L/SOFT-KEY] for **Option** to bring the following more options ;
Record : Record.
Play : Play the selected record.

Append : Append the selected record.

Rename : Change the file name of selected record.

Delete : Delete the selected record.

Delete All : Delete all records in “Recorder” list.

Settings : You can set “File Format”.

Forward : Forward the selected record by MMS or EMS, or to ring tone.

MELODY COMPOSER

1. You can compose ring tone with this menu.
2. On “Melody Composer” screen, you can find the list of composed melody.
3. Press [L/SOFT-KEY] for “**Add**” to compose a new ring tone – 1st time of composition only.
4. Key map is as follows ;
[1] ~ [7] : Do ~ Si.
[8] : Vibration.
[9] : Lightening LED.
[0] : Rest.
[*] : Change the length of note/rest.
[#] : Shift to “#”.
5. Press [L/SOFT-KEY] for “**Option**” to bring the following more options ;
Play : Play the selected record.
Play Speed : Set the play speed.
Select Instrument : Select the instrument with 10 options.
Save : Save the composed ring tone.
6. On the list of composed ring tone, press [L/SOFT-KEY] for “Option” to bring the follow menus;
Play : Play the selected composed ring tone.

Edit : Edit the selected composed ring tone.

Add : Compose a new ring tone. Refer to #3 above in this menu.

Forward : Forward the selected composed ring tone by MMS or EMS, or to ring tone.

Rename : Change the file name of composed ring tone.

Delete : Delete the selected composed ring tone.

Delete All : Delete all composed ring tone in "Melody Composer" list.



FILE MANAGER

1. File manager is to manage your files of audio, images, photos, video clips, MP3, received data. It works as "My Document" in Window O/S.

2. You can have the following options ;

Open : You can have the following folders initially ; "Audio", "Images", "Photos", "Video", "MP3", "Received". If you create a folder, it will be generated in here.

Create Folder : Create a folder as you want.

Format : Format all folders and its properties in "File Manager".

Scan Disk : Scan a certain file you want in "File Manager".



FUN & GAMES

GAMES

F1 Race : Drive the car avoiding obstacles with [NAVIGATION] or [2], [4], [6], [8]. You can have 3 chances.

Start Game : Start the game.

Best Grades : It shows the ranking list from highest score.

Game Help : Explanation on game.

Copter : Drive the copter avoiding obstacles with [5], [8]. You can have 3 chances.

Start Game : Start the game.

Best Grades : It shows the ranking list from highest score.

Game Help : Explanation on game.

Chicken : Move chicken avoiding obstacles with [NAVIGATION] or [2], [4], [6], [8]. You can have 3 chances.

Start Game : Start the game.

Game Level : Set your level.

Best Grades : It shows the ranking list from highest score.

Game Help : Explanation on game.

THEMES

1. You can change the menu background color.
2. Options ; "Orange", "Blue", "Green".

GAME SETTING

Game Audio : Set the audio effect of a game on/off.

Game Vibration : With Set the vibration effect of a game on/off. With this function activated on, you can enjoy the real effect during the game, for example crushing, hitting etc.,



USER PROFILES

This menu offers changing ring tone, volume, alert type, ring type, extra tone, answer mode, light on each mode.

GENERAL

1. Set this menu for general mode.
2. Activate this menu on and customize as you want.
3. You can customize the following items ;

Tone Setup : You can set the following items of tone ; "Incoming Call", "Alarm", "Power On", "Power Off", "Message Tone" and "Keypad Tone".

Volume : You can set the volume of "Ring Tone" and "Key Tone".

Alert Type : You can set the ring mode with 4 following options ; "Ring", "Vibration Only", "Vibration and Ring" and "Vibration then Ring".

Ring Type : You can set the ring type with 3 following options ; "Single", "Repeat" and "Ascending".

Extra Tone : You can set the alert for the following items ; "Warning", "Error", "Camp On", and "Connect".

Answer Mode : You can set "Any Key" answer on or off.

LCD Backlight : You can set the LCD Backlight with 4 following options ; "5 Sec",

“10 Sec”, “30 Sec” and “45 Sec”.

MEETING

1. Set this menu when you are in meeting.
2. Activate this menu on and customize as you want.
3. For detail, please refer “General” above.

OUTDOOR

1. Set this menu when you are in outdoor.
2. Activate this menu on and customize as you want.
3. For detail, please refer “General” above.

INDOOR

1. Set this menu when you are in indoor.
2. Activate this menu on and customize as you want.
3. For detail, please refer “General” above.

HEADSET

1. Set this menu when you use headset.
2. If you insert the headset, it activated automatically.
3. For detail, please refer “General” above.



ORGANIZER

CALENDAR

1. This menu shows you the year, month, date with one month calendar and enables you to manager your schedule.
2. Press [L/SOFT-KEY] for "Option" to bring the following menus ;
View Tasks : Shows the list of your tasks that you already input.
Jump To Date : Helps you to move the month calendar of the date you input.

TO-DO LIST

1. If you have any action item, you can save the action item in this menu.
2. Press [L/SOFT-KEY] for "Add" to add an action item.
3. Edit "Date", "Time(Duration)", "Note", "Alarm On/Off", "Repeat" and press [R/SOFT-KEY] for "Done".

ALARM

1. Allows you to set a alarm to ring at a specific time. You can set 3 alarms in maximum.
2. Press [L/SOFT-KEY] for "Edit" to edit the alarm.
3. Set (Alarm) "On/Off", "Time", "Repeat" and press [R/SOFT-KEY] for "Done".
4. If you set alarm, the  icon will be displayed on top of the screen.

WORLD CLOCK

Allows you to check the current time of other time zone. There is an option for "Daylight Saving for Foreign City".



SERVICES

SIM TOOL KIT

Serviced according to the specification of service provider.

WAP SERVICE

Homepage : Once the internet is connected, the homepage is displayed. The content depends on the service provider.

Bookmarks : You can use the address of up to 5 internet site for easy access using "Bookmarks". You can have options of "Go To", "Edit", "Delete", "Delete All ?", "Add Bookmark".

Recent Pages : This feature keeps records of the 10 latest websites visited by the users.

Enter Address : You can open any www page by entering its URL address.

Service Inbox : You can view WAP message.

Settings : has the following sub-menu ; "Edit Profile", "Browser Options", "Service Message Settings", "Clear Cache", "Clear Cookies".

DATA ACCOUNT

GSM : You can have data account up to 10. Set "Account Name", "Number", "User Name", "Password", "Line Type", "Speed", "DNS" to connect GSM data service.

GPRS : You can have data account up to 10. Set "Account", "APN", "User Name", "Password", "Auth. Type" to connect GPRS data service.

EXTRA

CALCULATOR

This menu support you to calculate with the following options ; Equal, Plus, Minus, Divide By, Multiply By, M+, M-, MR, MC.

UNITS CONVERTER

Helps you to convert the input units to the units you want with 2 option of "Weight" or "Length".

CURRENCY CONVERTER

1. Input the exchange rate first.
2. Press [L/SOFT-KEY] to enter the converter interface. You may input the number of your local currency.
3. Press [L/SOFT-KEY] to get the result.

HEALTH

Helps you to know some health information about you.

BMI : Input the height and weight, it will output the BMI result.

Menstrual : Help Input the last menstrual date and the average period, it will display the information of your menstrual in the calendar view.

SHORTCUTS

Users can choose shortcuts to select or press numerical key [8] and enter the swift key of shortcuts to setup directly under the main menu. Shortcuts of our acquiescence has 10 to select altogether, users can enter every one and select to set up.

If first swift key of us it selects to be search entry, user can click left software edit enter editor's mode, acquiescence select search entry select, then user through navigate key from head to foot, move in reserve menu following 39 select, set up the new selecting with corresponding swift key of the 1st, for example we can choose user profiles, click [L/SOFT-KEY] for "OK", communication frame brief Done on, choose after succeeding in, it is at a higher level to get back to automatically, users select from new editor next shortcuts, and so on and so forth, from 1 to 10, every, user can compile swiftness that oneself want enter and select.

After editor finish, under awaiting the opportune moment interface, user can is it is it navigate the key to up go to choose, enter the swift key mode, the key or numeric key by navigating from head to foot then directly, can enter the menu that users defined fast. For instance, press numeric key [3] directly, can enter write message interface.

ABC ENTERING TEXT

When storing a name in the "Phonebook", writing your SMS or scheduling events in your "To Do List", you will need to enter text. You are provided with the following text input modes.

CHANGING TEXT INPUT MODE

- ✓ When you are in a field that allows character entry, you should notice the text input mode indicator on the top of the display.
- ✓ To change to another text mode, press # and you can have the following options in Spanish mode.

esp – input smart Spanish

abc -input lowercase letters

ABC -input capital letters

123 -input numbers

ABC/abc MODE

- ✓ When typing in ABC/abc mode, you should press the key labeled with the required letter, once for the first letter, twice for the second letter, and so on. If the letter you want is displayed, release the key. You can change large/small letter by pressing [#] to change the input mode.

Refer to the table below for the list of characters assigned on each key.

Key	Character
1	: ; (_ - ? !) @ ...
2	A B C a b c
3	D E F d e f
4	G H I g h l
5	J K L j k l
6	M N O m n o
7	P Q R S p q r s

8	T U V t u v
9	W X Y Z w x y z
#	Change the text input mode

SMART Spanish/Portuguese MODE (eZiText)

- ✓ This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter. So you can input a word by press key and key, until the word you need appear in the screen.
- ✓ When you input the word, you can press [*] to change the mode of Esp/ESP/ esp, this means you can input word with the first letter in capital letter or all letters in capital letter.
- ✓ However, this mode automatically compares your keystroke with an internal linguistic dictionary to determine the correct word.
- ✓ Thus, requiring far fewer keystrokes than the traditional input mode.
- ✓ Press [1] can input characters of :;(_-?!)@
- ✓ Press [0] can input characters of * # + = % \ “ , . and [space]

NUMERIC MODE

- ✓ This mode enables you to enter numbers into a text message. Press keys corresponding to the desired digits, and manually switch back to the text entry mode of choice.

Pressing [1] ~ [0+] Number.

SOLVING PROBLEMS

Before contacting after sales service, perform the following simple checks. They may save you the time and expenses of an unnecessary service call.

“Phone locked” is displayed

☞ The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

“No Service” is displayed

☞ The network connection was lost. You may be in a week reception area (in a tunnel or surrounded by buildings). Move and try again.
☞ You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialed

☞ Have you pressed [SEND] ?
☞ Are you accessing the right cellular network ?
☞ You may have set an outgoing call barring option.

Your correspondent cannot reach you

☞ Is your phone switched on ?
☞ Are you accessing the right cellular network ?
☞ You may have set an incoming call barring option.

Your correspondent cannot hear you speaking

- ☞ Have you switched off the microphone ?
- ☞ Are you holding the phone close enough to your mouth ? The microphone is located in the bottom of the phone.

The phone starts beeping and “Warning Battery Low” flashes in the display

- ☞ The battery is insufficient charged. Replace the battery and recharge it or connect the battery charger.

The audio quality of the call is poor

- ☞ Check the signal strength indicator in the display; the number of bars after it indicates the signal strength from strong to weak.
- ☞ Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialed when you recall a “Phonebook” entry

- ☞ Check that the numbers have been stored correctly, by using the “Phonebook” “Search” feature.
- ☞ Re-store them, if necessary.

IF THE ABOVE GUIDELINES DO NOT HELP YOU TO SOLVE THE PROBLEM, TAKE A

NOTE OF ;

THE MODEL AND SERIAL NO. OF YOUR PHONE

YOUR WARRANTY DETAILS

A CLEAR DESCRIPTION OF THE PROBLEM

THEN, CONTACT YOUR LOCAL DEALER OR AFTER SALES SERVICE.

LIMITED WARRANTY STATEMENT

1. WHAT THIS WARRANTY COVERS :

Welcomm offers you a limited warranty that the enclosed subscriber unit will be free from defects in material and workmanship, according to the following terms and conditions:

- (1) The limited warranty for the product extends for ONE (1) year beginning on the date of purchasing of the product.
- (2) The limited warranty extends only to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser/end user.
- (3) This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the purchased local area.
- (4) The external housing and cosmetic parts shall be free of defects at the same time of shipment and, therefore, shall not be covered under these limited warranty terms.
- (5) Upon request from Welcomm, the customer must provide information reasonably prove the date of purchasing.
- (6) The customer shall bear the cost of shipping the product to the Customer Service Center of Welcomm. Welcomm shall bear the cost of shipping the product back to the customer after the completion of service under this limited warranty.

2. WHAT THIS WARRANTY DOES NOT COVER :

- (1) Defects or damages resulting from use of the product in other than its normal and customary manner.
- (2) Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration,

improper installation, or other acts which are not the fault of Welcomm, including damage caused by shipping, blown fuses, spills of food or liquid.

- (3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- (4) That the Customer Service Department at Welcomm was not notified by consumer of the alleged defect or malfunction of the product during the applicable limited warranty period.
- (5) Products which have had the serial no. removed or made illegible.
- (6) This limited warranty is in lieu of all other warranties, express or implied either in fact or by operations of law, statutory or fitness for a particular use.
- (7) Damage resulting from use of non-Welcomm approved accessories.
- (8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
- (9) Products operated outside published maximum ratings.
- (10) Products used or obtained in a rental program.
- (11) Consumables (such as fuses).

3. STATE LAW RIGHT :

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. WELCOMM SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusive of limitation of incidental or consequential damages or

limitations on how long an implied warranty lasts; so these limitations or exclusives may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

4. HOW TO GET WARRANTY SERVICE :

To obtain warranty service, please call the following telephone number :

FCC RF EXPOSURE INFORMATION

Read this information before using your phone

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damaged the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation

This device has been tested for body-worn operation and meets FCC RF exposure guidelines. Body-worn operation is restricted to accessories that maintain a minimum of 1.5 cm separation to the body and do not contain metallic components. Use of any other body-worn accessories may not compliance with FCC RF exposure guidelines

For more information about RF exposure, please visit the FCC website an www.fcc.gov

Specific Absorption Rate (SAR) for Wireless Phones

The SAR is a value that corresponds to the relative amount of RF energy absorbed in the head of a user for a wireless handset. The SAR value of a phone is the result of an extensive testing, measuring and calculation process. It does not represent how much RF the phone emits. All phone models are tested at their highest value in strict laboratory settings. But when in operation, the SAR of a phone can be substantially less than the level reported to the FCC. This is because of a variety of factors including its proximity to a base station antenna, phone design and other factors. What is important to remember is that each phone meets strict federal guidelines. Variations in SARs do not represent a variation in safety. All phones must meet the federal standard, which incorporates a substantial margin of safety. As stated above, variations in SAR values between different model phones do not mean variations in safety. SAR values at or below the federal standard of 1.6W/kg are considered safe for use by the public.

The highest reported SAR values of TZCREX451 are:

GSM850 mode (Part 22)- Head: 1.090 W/kg; Body-worn: 0.385 W/kg
GSM1900 mode (Part 24) – Head: 0.392 W/kg; Body-worn: 0.475 W/kg

FCC Radio Frequency Emission

This phone meets the FCC Radio Frequency Emission Guidelines. FCC ID number: TZCREX451
More information on the phone's SAR can be found from the following FCC website:
<http://www.fcc.gov/oet/fccid>