



i-Series and t-Series User Guide

Sept 2011

Revision 1.5a

This manual applies to Identicom models i750, i770, i757 and i777, with software versions V5.2.13 or later, and models t757 and t777 with software versions V5.2.13t or later.

Preface

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About Identicom

Identicom is a communication device disguised as an ID card holder. It enables vulnerable solitary workers to communicate discreetly with their back-up services in potentially hazardous situations.

About this guide

This user guide provides all the information you need to set up, operate and take care of your Identicom.

A Technical Reference Manual is available from Connexion2 (please email info@connexion2.com) which provides configuration information for the people who deploy and manage the system, and run the back-up services.

Identicom Limited Warranty

Thank you for buying this Connexion2 product. Please read this user manual before attempting to use it. To avoid damaging the Identicom, do not:

- o Expose it to extremes of temperature or humidity;
- o Subject it to hard knocks or excessive force;
- o Immerse it in liquid; or
- o Use volatile or corrosive substances when cleaning it, as damage caused in any of these ways is not covered by this warranty.

If you have any difficulty using your Identicom, consult the user manual to check you are using it correctly.

If within 12 months of the date of purchase this Identicom does not function substantially as described in the user manual because of defective materials or workmanship, Connexion2 Limited will repair it free of charge, subject to the following conditions:

Where the fault is the result of misuse, unusual external effects, accidental damage, normal wear and tear, or unauthorised repair, Connexion2 Limited may charge you for the repair and retain this Connexion2 product until you have paid that charge in full.

You must produce proof of purchase, showing the date of purchase of this Connexion2 product, to have a repair carried out free of charge under this warranty, so please keep your receipt/invoice safely. To have this Connexion2 product repaired under this warranty, you first need to contact Connexion2 via email for a Problem ID Number (Returns Number). Either return it personally or send it by registered post/Courier, together with your Problem ID Number, sales receipt, to your Connexion2 supplier or to Connexion2 Ltd, at the address shown in this user manual. Please ensure that it is properly and securely packed. Please note that we will not be liable for damage to or loss of this Connexion2 product while it is in transit to Connexion2 or a Connexion2 supplier; check that your

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insurance covers the relevant risks. Service is only available in countries where Connexion2 Limited officially distributes the product.

In the event of Connexion2 being unable to correct or replace the Identicom, Connexion2's liability to you shall not exceed the purchase price of the Identicom. In no event will Connexion2 be liable for direct, indirect, special, incidental or consequential loss of profits or loss of data arising out of use or misuse of the Identicom. Nothing in this warranty shall limit or restrict Connexion2's liability for death or personal injury caused by its negligence.

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Identicom models

This manual covers Identicom models i750, i770, i757 and i777, and models t757 and t777.

The table below indicates the main distinguishing features of these models:

	GSM	GPS*	GPS**	Man Down
i750	✓			
i770	✓			✓
i757	✓	✓		
i777	✓	✓		✓
t757	✓	✓	✓	
t777	✓	✓	✓	✓

GSM Global System for Mobile communications

GPS* Global Positioning System – user-initiated location only; GPS fix transmitted via SMS message at user’s request or as part of an alert

GPS** Global Positioning System – device tracking, data logging, and geo-fence information via GPRS

Man Down Ability of the unit to detect when the user is incapacitated, and alarm appropriately

1 Introduction

The Identicom has the appearance of a simple ID card holder. It holds your ID card, and also discreetly functions as a communication device to help ensure your personal safety.

In the plastic body behind the ID card, the Identicom contains a mobile phone, a SIM card and a microphone, together with controls and indicators that allow you to operate the device. There is also a vibration motor that can indicate confirmation of your actions by giving recognisable periods of silent vibration.

The organisation that employs you, together with a service provider, are responsible for configuring the SIM card in your Identicom so that it operates in the way best suited to your needs. This configuration process includes setting up conditions called “Amber Alerts” and “Red Alerts”, and defining standard text messages that will be sent to particular phone numbers in a specific range of situations.



Configurable
Option

In this guide, where you see the symbol shown on the left, it indicates that the mode of operation or feature being described is configurable; that is, it may or may not have been enabled on your device. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

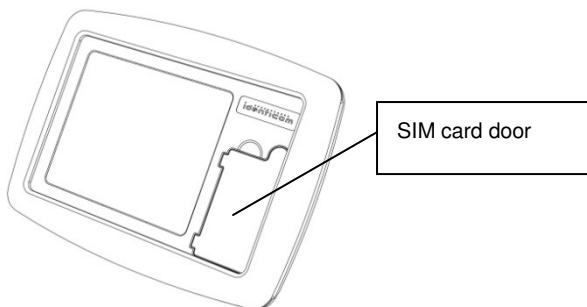
The main functions of the Identicom are:

- Before entering a potentially dangerous situation, you can check the Identicom’s battery level and the signal strength (to make sure that it will be able to operate effectively if needed).
- You can start an **Amber Alert** before you begin every visit. This sends standard text messages, allows you to send a brief voice message, and can alert your back-up services to check your situation if you haven’t cancelled the Amber Alert within a set time.
- You can start a **Red Alert** state with a discreet press of a button while you are in a hazardous situation, or at any

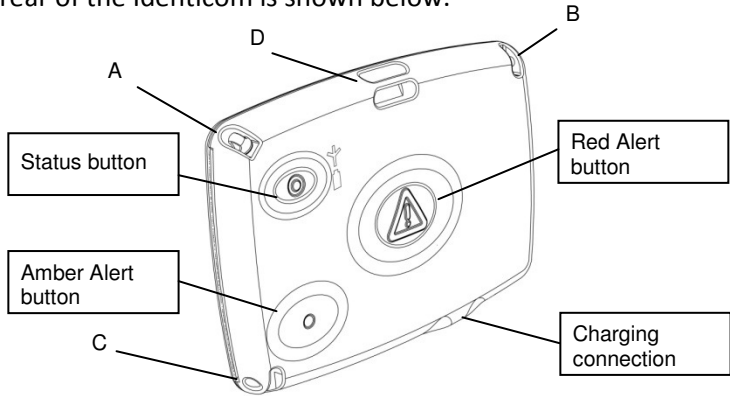
time when required. This sends standard text messages to the designated phone numbers, and also opens a voice link to allow the call centre to hear.

- Identicom models with the **Man Down** functionality (models i770 and i777) can automatically initiate a Red Alert state if the unit detects symptoms that suggest that the user has become incapacitated. (These symptoms are configurable to suit each user's needs.) The user can be warned by a Pre-Alert vibration (and optionally a call to the user's mobile phone) before the Red Alert is initiated.
- Identicom models i757 and i777 have an integrated Global Positioning System (GPS) to assist with determining your exact location in the event of an incident.
- Identicom models t757 and t777 have advanced GPS facilities that allow high frequency logging of GPS data, uploading of the data log via GPRS, and geo-fencing facilities for defined locations.

The front of the Identicom is shown below. With no ID card in place, you can see the door to the recess where the SIM card is installed.



The rear of the Identicom is shown below.



You can attach the lanyard at points A and B for a landscape ID card, or at points A and C for a portrait ID card. Alternatively, you can attach a lapel clip at point D instead of the lanyard.

The **Status** button allows you to check the status of the battery and the phone signal strength, and to check whether an Amber or Red Alert has been started. The status LEDs are visible through the plastic cover adjacent to the Status button.

Press the **Amber Alert** button to start or cancel an Amber Alert.

Press the **Red Alert** button to start or cancel a Red Alert.

2 Initial Setup

This section describes how to prepare the Identicom for use, covering installation of the lanyard or lapel clip, insertion of the SIM card, insertion of the ID card, charging, care and maintenance, and switching the device on and off. The box containing your Identicom includes the following items:

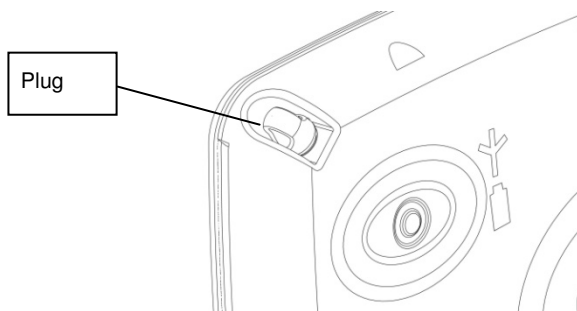
- o The Identicom
- o Easy Reference Guide
- o Lanyard & three lanyard attachment plugs
- o Lapel clip
- o Charger (including country adapter)

Installing the lanyard or lapel clip



You install the lanyard at corners A and B (see the illustration on the previous page) for a landscape ID card, or at corners A and C for a portrait ID card. The attachment at corner A is by way of a plastic plug which fits tightly in its socket, but which will pull out if tugged firmly. The Identicom can be configured so that pulling the lanyard plug out of its socket will cause a Red Alert. This is designed to help you in case a person tries to remove the Identicom from you by force. A Red Alert caused in this manner is referred to as a **Rip Alarm Alert**.

The figure below shows the plug in its socket at corner A.



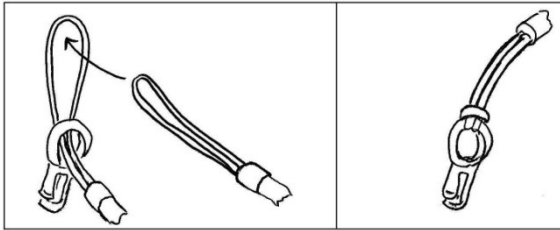
Three plugs are provided with the Identicom offering increasing degrees of tightness in the socket. Use the plug labelled 1 for the tightest fitting, which requires the greatest amount of force to remove it, or the plug labelled 3 for the lightest fitting, which requires the least amount of force to remove it. We recommend starting with the middle plug – labelled 2.

If you do not want to use the lanyard, you can attach a lapel clip at point D (see the illustration on page 2). If you are not using the lanyard, insert one of the plugs into the socket at corner A to prevent dust or dirt from entering the socket.

Note: You must either attach the lanyard, or just insert a plug, before you attempt to charge or switch on the Identicom.

Use the following procedure to attach the lanyard.

1. Thread the fine loop at one end of the lanyard part way through the attachment hole in the plug you have selected to use.
2. Thread the other end of the lanyard through the loop of cord that has passed through the hole in the plug. Pull the lanyard tight, so that the loop of cord is snug around the plastic plug.



3. Repeat this procedure with the other end of the lanyard at the chosen attachment point (B for landscape or C for portrait). Pull the lanyard tight, so that the loop of cord is snug around the attachment point.
4. Insert the plastic plug into its socket at corner A. The lanyard is now attached.

Note: There is no Rip Alarm switch at the lapel clip attachment point. The Rip Alarm function can be enabled with the lapel clip by using the lapel clip lanyard accessory sold separately.

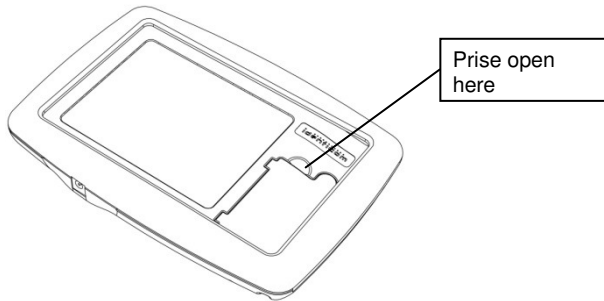
Inserting the SIM card

SIM card configuration is carried out by your employer, working in conjunction with the service provider. The SIM card is normally pre-configured so that you can use the Identicom immediately.

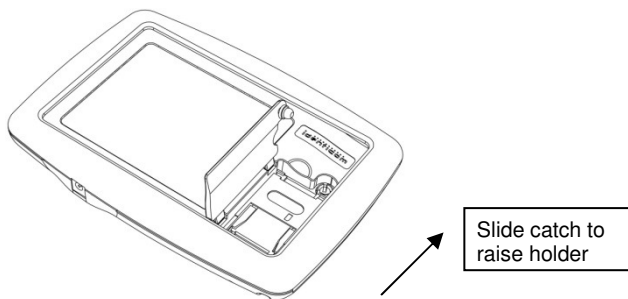
If your ID card is already fitted into the Identicom, you must remove it to get access to the SIM card door. Gently press down on the edge of the ID card nearest the exit slot, then slide the ID card out.

Use the following procedure to insert the SIM card.

1. Make sure the device is switched off before inserting or removing a SIM card. Use a finger nail, a small screwdriver tip or a nail file to prise open the SIM card door next to the rounded corner.

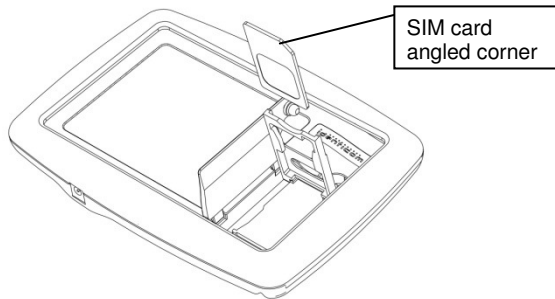


2. With the SIM card door open, raise the SIM card holder by sliding the catch mechanism towards the Identicom logo.



3. With the SIM card holder raised, orientate the SIM card as shown and insert it in the holder.

Note: The gold connector must be on the under side, and the angled corner must be next to the bottom right corner of the device (looking at the front).



4. Press down the card holder and slide the catch mechanism away from the Identicom logo to secure the SIM card in place.
5. Close the SIM card door by pressing down on the rounded corner.

The Identicom is now ready for use, but you should always charge the device before using it.

Note: You must insert a valid SIM card to be able to use the unit.

Inserting your ID card

Fit your ID card into the slot at the right side of the Identicom (as you look at the front) and slide it in until it clicks into place. To remove your card, gently press down on the edge of the ID card nearest the exit slot, then slide the card out.

Charging

The Identicom must be fully charged before you attempt to use it, in order to condition the battery fully. We recommend leaving the device on charge for a minimum of 6 hours.

To make sure that the battery is fully charged when you need to use the Identicom, always charge the device in between uses.

To charge the Identicom, plug in and switch on the charger, then connect the charging cable to the Identicom charge connection point (see the illustration on page 2).



When the Identicom is connected to the charger, the Battery LED is active. (The Battery LED is on the back of the device, next to the Status button.) As the battery charges, the LED changes from flashing red, to flashing amber, and when the battery is fully charged, to constant green. If the battery LED remains red for a long period, the Identicom requires a service.

Note: Placing the Identicom “on charge” automatically switches the device on. When taken off charge, the device remains switched on and ready to use.

Switching the device on and off

- To check the Identicom is on, press the **Status** button for 2 seconds. If the LEDs do not start flashing, the Identicom is off.
- To switch the Identicom on, press the **Status** and **Amber** buttons together until the LEDs start flashing. The device vibrates briefly to confirm.
- To switch the Identicom off, press the **Status** and **Amber** buttons together until the device vibrates twice.

When the Identicom is on, it registers with the mobile phone network and is ready to communicate an Amber or Red alert. If you go out of coverage for more than 30 minutes, the Identicom switches to a sleep mode to preserve battery power. This does not stop the Identicom from working, but when you press any of the buttons it will take slightly longer to connect the call or report the status.

Care and maintenance

The Identicom is purposely designed so that you do not need to perform any routine maintenance procedures. However, you should note the following points about cleaning and general care.

Cleaning

Use a damp cloth (not wet) to remove any dirt from the Identicom. Be very careful not to allow water into the unit, particularly around the SIM card door.

Do not use any alcohol or chemical cleaning agents of any type.

Moisture resistance

The Identicom is not waterproof and you should take care not to expose the unit to liquids of any kind, including water, rain, and extreme humidity.

Impact damage

The Identicom is made from a tough ABS plastic case. It is designed to resist a certain amount of damage caused by general use, but will not withstand heavy impacts.

Removal of SIM cards

If the SIM card needs to be removed from the device the unit **MUST** be turned off. Do not remove the SIM whilst the unit is turned on or whilst on charge, as this will cause the unit not to function.

3 Status Checking





Configurable
Option

You can check the Identicom's battery level and the phone signal strength before a visit, so that you can make sure that it will be able to operate effectively if needed. Your Identicom can be configured so that this status information is also sent as a text message to your administrator or monitoring centre.

Battery and signal status checking



Press and hold the **Status** button until both the LEDs start to flash red. After a short while, the battery and signal LEDs stop flashing to indicate the following:

	Green	Amber	Red
Battery 	Good	Low	Poor
Signal 	Good	Low	Poor or no network signal

If either LED is red, you should not rely on the Identicom in an emergency.

When the battery LED is Amber, you should recharge the Identicom as soon as possible.

Refer to the Technical Specifications in section 9 of this guide for expected battery life, when charged.



Identicom offers the facility of using vibration patterns to indicate activation of the Status Check and to confirm that neither the network coverage nor battery strength LED is red. This function aids the use of Identicom by the visually impaired. The vibration patterns are described in the table in Section 8 of this guide.

There is another configurable option to display the current GPS location fix status at the end of a Status Check. See Section 7 of this guide for further details.

Ending the status display

When both the status LEDs have displayed their status for 5 seconds, the LEDs are turned off and the device is ready for use.

Note: If you press the status button when the unit is out of coverage, the status is displayed to you by way of the LEDs, but the unit waits until it is back in coverage before attempting to send any text messages.

SIM card faults

If no SIM card is fitted, or there is a fault with the SIM card, the Identicom flashes the battery and signal LEDs red alternately for two seconds, and then switches itself into the 'power off' state. You must insert a valid SIM card to be able to use the unit.

Red and Amber Alert status



If the Identicom is in an Amber Alert state or a Red Alert state when the Status button is pressed, the signal status LED shows a two second constant indication of the state:

- Constant amber for two seconds indicates an Amber Alert is in progress.
- Constant red for two seconds indicates a Red Alert is in progress.

4 Amber Alerts

An Amber Alert is an advance warning to your back-up services that you are about to enter a potentially dangerous situation. Typically, you would start an Amber Alert before you enter the situation, such as in the street or your car before entering a house. This gives you the privacy to send a brief voice message describing the situation and/or details of your location.

Your Identicom can be configured so that the Amber Alert lasts for a set period. If you take no action at the end of this Amber Alert period, the device automatically escalates into a Red Alert to advise your back-up services that a problem has been encountered.



Most of the options described below for Amber Alerts are configurable. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

Starting an Amber Alert

Press the **Amber Alert** button for at least 1.5 seconds to start an Amber Alert. The Identicom gives three short bursts of vibration to confirm the state. If configured, the Amber Alert text message is sent to the designated numbers.

If configured, the Identicom also opens a voice call to the designated number, so that you can send a voice message to describe the situation. The Signal and Battery LEDs show constant amber while the call is being connected, and then turn to flashing amber when the connection has been made. The flashing amber LEDs are the prompt to start the voice message. There is also the option of having the device vibrate once when the LEDs switch from constant to flashing as an aid for the visually impaired.

The time allowed for you to send the voice message can be set between 1 and 60 seconds. Ten seconds before the end of this call period, the LEDs change back to constant amber to warn you that the call period is soon ending. When the voice call period ends, the Signal and Battery LEDs go out. There is the option of

having a timer period initiated after the voice call period ends. This is detailed later in this section.

When you start the Amber Alert, the Identicom attempts to dial, to allow your voice message to be left. If the voice call cannot be connected, it will retry connecting the call the configured number of times (between 0 and 9).

The length of time allowed for an Amber Alert Timer period, initiated after the voice call period ends, can be configured for each Identicom to be anything between 1 and 120 minutes.

If you press the **Status** button during an Amber Alert Timer period, the Signal status LED shows amber to confirm the Amber Alert state.

At the end of the Amber Alert Timer period, the Identicom gives five long bursts of vibration to remind you to take some action. (This vibration pattern can also be configured for the number of bursts and duration per burst.) There is then a one minute period for you to decide what action to take. The options at the end of this Amber Alert Timer period are explained in the next section.

Your Identicom can be configured to use Amber Alerts without any timer period. In this mode of operation, there is no automatic escalation from Amber Alert to Red Alert.

Options when in an Amber Alert timer period

Your options when in an Amber Alert Timer period are to cancel it, to extend the period, or to allow it to escalate into a Red Alert.

- You can press the **Amber Alert** button for more than 1.5 seconds to cancel the Amber Alert Timer period. This signifies that the potential danger did not arise, or that you are now away from the hazardous situation. The Identicom signals confirmation by giving two short vibrations. The pre-configured Amber Alert Cancelled text message is sent to the designated numbers.

- You can press the **Amber Alert** button for less than 1.5 seconds to extend the Amber Alert Timer period. The duration of the extension is configurable between 1 and 60 minutes. The Identicom gives a short burst of vibration to confirm the extension. The end of the extension period is signalled in the same way as the original Amber Alert Timer period, and you can continue to extend repeatedly, for as long as you need. Your Identicom can also be configured to send a text message when you choose to extend the Amber Alert Timer period.
- If you do nothing when the Amber Alert Timer period ends, the implication is that you were not able to take any action, the Identicom enters the Red Alert state. (This is described in Section 5 of this guide.)

You do not have to wait for the signalled end of the Amber Alert Timer period to cancel it or extend it. Pressing the **Amber Alert** button for more or less than 1.5 seconds at any time during the Amber Alert Timer period will cancel or extend the period, as described above.

5 Red Alerts

A Red Alert is an emergency state. It is not necessarily a violent situation: it could be a case of verbal abuse which you want your back-up services to listen to and record.

Note: The legality of recording such events varies from country to country. Please check with your service provider.



Configurable
Option

Most of the options described below for Red Alerts are configurable. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

Starting a Red Alert

There are four ways of starting a Red Alert:

- Press the **Red Alert** button for more than 2.5 seconds (the unit will vibrate) followed by a second press of the Red Alert button to activate the call (within 15 seconds). If you don't press the button again within 15 seconds the unit will vibrate to inform you that Red Alert did not occur.
 - *If configured without double button press, simply press the **Red Alert** button for more than 2.5 seconds. The duration of the press of the Red Alert button to activate Red Alerts can be pre-configured between 0.2 and 3 seconds.*
- Allow an Amber Alert Timer period to expire and escalate into a Red Alert.
- If your Identicom is configured to do so, and your lanyard is fitted, forcible removal of the lanyard plug will also start a Red Alert. This type of Red Alert is also referred to as a Rip Alarm Alert.
- For models i770, i777 and t777 with the **Man Down** function, the unit can detect symptoms that suggest that you have become incapacitated. (These symptoms are configurable to suit each user's needs.) You are warned by a Pre-Alert vibration (and optionally a call to your mobile phone) before the Red Alert is initiated.

When a Red Alert is started, the Identicom gives three short bursts of vibration to confirm the state. The Identicom opens a voice call to the designated number and enables the microphone, so that your back-up services can listen to and/or record the situation. Also, the pre-configured Red Alert text messages are sent to the designated numbers. Your Identicom can be configured to send different messages to the primary and secondary telephone numbers.

Caution: The three bursts of vibration confirm the start of the Red Alert period, but there is normally a brief delay while the mobile phone network makes the connection. This can take several seconds, so do not assume that everything is being recorded from the point where the three bursts of vibration are made.

If you initiate a Red Alert when your unit is out of coverage, the Identicom will not be able to send the Red Alert messages, so it gives a single long vibration pulse instead of the three short pulses. This indicates that the Red Alert has not been successfully transmitted.

When a Red Alert is started, the Identicom attempts to dial the voice call number. If the voice call cannot be connected, it will retry connecting the call the configured number of times (between 0 and 9). Your Identicom can also be configured to keep trying to make the voice call connection continuously, with no limit to the number of retries.

The call length of a Red Alert can be configured for each Identicom to be anything between 1 and 120 minutes. The Red Alert ends only when it is cleared by you, or, if your Identicom is configured to do so, remotely by your service provider.

Voice call connection confirmation

Your Identicom can be configured to give a confirmation buzz (5 short buzzes) when a voice call connection is successfully made by your monitoring service. This is designed to give reassurance that the Red Alert situation is now being monitored.

Heartbeat pulse

During an active Red Alert call, your Identicom can be configured so that it will periodically vibrate like a heartbeat (two short pulses, repeated – the repeat time is configurable). This is to provide reassurance to you that the call is active and open, and that someone is listening to and/or recording events.

In a Man Down Red Alert (models i770 and i777 only), the heartbeat function delivers three short pulses rather than two, to enable the monitoring service to distinguish the type of Red Alert.

Rip Alarm Alerts

If your lanyard is fitted (see Section 2 of this guide), your Identicom can be configured to enable Rip Alarm Alerts. These occur if the lanyard plug is forcibly removed from its socket – such as if someone tries to take the device from you. Once started, a Rip Alarm Alert is handled in exactly the same way as any other Red Alert.

Note: Rip Alarm Alerts cannot be triggered by the lapel clip unless the lapel clip lanyard accessory is utilised.

Man Down Red Alerts (models i770, i777 and t777 only)

The way in which the **Man Down** functionality can detect symptoms that suggest that you have become incapacitated can be configured to take account of the type of work you do, and the risks you may encounter.



The **Man Down** detection features are configurable. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

There are three aspects of Man Down detection that can be configured:

1. Change in orientation. The unit detects a change in angle from the vertical (a degree of tilt) and measures the period for which the tilt continues. For example, if your working habits are such that you (and your Identicom) are normally upright, and you have a fall or are knocked over, the unit could detect if you remain in a horizontal position.
2. Period of non-movement. The unit has a movement sensor and a threshold time value can be set so that the unit detects when you have remained immobile for longer than this time. The unit can be configured so that a Man Down alert is raised

when **either** a Change in orientation **or** a Period of non-movement is detected, or so that a Man Down alert is raised only when **both** conditions are detected.

3. Sudden, rapid movement. The unit's movement sensor can detect a sudden, rapid movement, such as might be caused by an impact, or being knocked over. The unit can also be configured so that the period of non-movement is much shorter following a detected impact than it would be under normal circumstances. For example, the period of non-movement could be set at three minutes before an alarm was raised in normal circumstances, but this could be reduced to 30 seconds of non-movement in the event of a sudden impact.

Your employer will have determined the most appropriate settings for configuring your device.

Man Down detection can be configured so that it is active at all times, or so that it is active only when you are in an Amber Alert state, and the Amber Alert timer is running.

Man Down detection is always disabled when the unit is on its charger, or switched off.

Man Down Pre-Alert

To avoid raising a Man Down Red Alert simply because of a naturally occurring period of non-movement, or change in orientation, the device can be configured to enter a Pre-Alert period before initiating the Red Alert. If the device detects what could be a Man Down situation (based on your configured profile), it will first raise a Pre-Alert. The Pre-Alert period can be configured for any time up to four minutes. During this period, the Identicom will attempt to alert you to the imminent Man Down condition by means of a vibration pattern, and (if configured) by calling your mobile phone. Any movement of the Identicom will cancel the Man Down condition, as it can now detect that you are capable of normal movement.

If you do not cancel the Man Down condition (by moving your Identicom), a Man Down Red Alert will be raised at the end of the Pre-Alert period.

During a Man Down Red Alert, the Heartbeat function repeatedly vibrates with three short pulses, repeated every defined period (the repeat time is configurable) to provide reassurance to you that the call is active and open. You can clear a Man Down Red Alert in the same way as any other Red Alert (see below).

Clearing a Red Alert

Press the **Red Alert** button for more than 1.5 seconds to clear the alert. The duration of the press of the Red Alert button to deactivate Red Alerts can be pre-configured between 0.2 and 3 seconds.

This signifies that the dangerous situation has eased. The Identicom signals confirmation by giving two short vibrations. The pre-configured Red Alert Cleared text messages are sent to the designated numbers. Also, the voice call link is terminated. Your Identicom can be configured to send different messages to the primary and secondary telephone numbers.

There are two ways that your Identicom can be configured to clear Red Alerts:

- A Red Alert can be cleared only by you pressing the **Red Alert** button for more than 1.5 seconds.
- A Red Alert can be cleared either by you pressing the **Red Alert** button for more than 1.5 seconds, or remotely by the service provider terminating the call.

Your managers or the service providers will be able to tell you how your Identicom is configured.

To cancel a Rip Alarm Alert, you must first re-insert the lanyard plug, and then press the **Red Alert** button for more than 1.5 seconds. This applies whether it was a genuine Rip Alarm, or whether the lanyard was detached accidentally.

6 GPS Operation (i757 and i777 only)

Identicom models i757 and i777 can be configured so that a GPS location request is made in any or all of the following situations:

- When you press any of the Identicom buttons
- When you check the status of your Identicom
- When you enter an Amber Alert state
- When you enter a Red Alert state



Configurable
Option

The GPS operation features are configurable. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

In the event of a serious incident, transmission of your exact location coordinates will help to ensure a speedier response in sending you assistance.

7 GPS Operation (t757 and t777 only)

Identicom models t757 and t777 can be configured so that GPS location information is logged at a much higher frequency than is possible with the i-series Identicoms, and is transmitted via GPRS to the monitoring service.

Standard GPS operation is still available (as in the i-series units), but GPRS communication is faster, more reliable and offers further benefits:

- Using GPS data for device tracking
- Uploading the data log via GPRS
- Detecting when the device enters or exits a geo-fence zone. (Up to 100 such zones can be defined.)



Configurable
Option

The advanced GPS operation features are configurable. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

One of the configurable options is to display the current GPS location fix status at the end of a Status Check. If configured, the Signal LED flashes blue for up to two minutes if the device is searching for a GPS fix, and displays a steady blue for five seconds if the latest GPS location fix gave a valid location. The steady blue “valid GPS fix” indication can be accompanied by a single short vibration, if required.

You should always perform a status check and get a GPS location fix after turning your Identicom on or moving outside from indoors.

GPS requires a clear line of site to the sky, not obstructed by buildings or other obstacles. The GPS location operation will not work whilst the unit is indoors.

8 Identicom Indicators

The following tables summarise the indications given by Identicom, both by the LEDs and by the different patterns of vibration.

LED indications

Device state	LED / colour / condition	Meaning
On charge	⏻ Red, flashing	Trickle charging
	⏻ Amber, flashing	Charging
	⏻ Green, constant	Charging complete
Status checking	⏻ Red, flashing	Indicates start of status display
	⏻ Red, constant	Battery condition bad, or no status sent
	⏻ Amber, constant	Battery condition below 70%
	⏻ Green, constant	Battery condition good
	⏻ Red, constant	Signal quality bad, or no status sent
	⏻ Amber, constant	Signal quality average
	⏻ Green, constant	Signal quality good
	⏻ Amber constant for 2 seconds when Status button pressed	An Amber Alert is in progress
	⏻ Red constant for 2 seconds when Status button pressed	A Red Alert is in progress
	⏻ Blue flashing for up to 2 minutes, at end of status check	Searching for a valid GPS location fix

Device state	LED / colour / condition	Meaning
	‡ Blue constant for 5 seconds	A valid GPS location fix was found
Amber Alert	‡ ◻ Amber, constant	Call being connected, then last 10 seconds of call period
	‡ ◻ Amber, flashing	Call connected (until last 10 seconds)
At power on	‡ ◻ Red, flashing alternately for 2 seconds, then power off	SIM card fault, or no SIM card present

Vibration patterns



Configurable
Option

Some of the vibration patterns described below are configurable. Check with your manager, or the supplier of your Identicom, for details of how your unit has been configured.

Identicom Action	Vibration pattern
Confirmation of switch to Power Off mode	Two short pulses
Confirmation of switch to Power On mode	Single short pulse
Confirmation of start of Amber or Red Alert	Three short pulses
End of Amber Alert period – action required or a Red Alert will follow	Five long pulses
Red Alert requested but out of coverage – unable to send messages	Single long pulse
Confirmation of extension of Amber Alert period	Single short pulse
Confirmation of termination of Amber Alert	Two short pulses
'Heartbeat' confirmation of Red Alert call still active	Two short pulses (at configured interval)
'Heartbeat' confirmation of Man Down Red Alert call still active	Three short pulses (at configured interval)
Confirmation that a voice call connection has been made	Five short pulses
Man Down Pre-Alert warning	Continual long pulses for the duration of the Pre-Alert period
Confirmation of start of Status Check (if this vibration function is enabled on the Status Check) *	Three short pulses
Confirmation that neither the network coverage or battery strength are red (if this vibration function is enabled on the Status Check) *	Single short pulse

Confirmation that the latest GPS location fix gave a valid location (if this vibration function is enabled on the Status Check) *	Single short pulse
Confirmation to commence voice message on Amber Alert (if this vibration function is enabled on Amber Alerts) *	Single short pulse
Confirmation of termination of Red Alert	Two short pulses

- * Identicom offers the facility of using vibration patterns to indicate activation of the Status Check, confirmation that neither the network coverage nor battery strength LED is red, and confirmation that a valid GPS location fix was obtained. This function aids the use of Identicom by the visually impaired.

9 Technical Specifications

Dimensions	102 x 72 x 12 mm
Overall weight	Identicom i750 & i770 78 g (approx., including lanyard). Identicom i757 & i777 85g (approx., including lanyard) Identicom t757 & t777 85g (approx., including lanyard)
Operating temperature range	-10°C to +40°C
Operating humidity range	0-95% non-condensing
Communication system	Quad-band GSM
GSM frequency – Quad-band	850 MHz, 900 MHz, 1800 MHz and 1900 MHz
Battery life – standby	60 hours (estimated) GPS Units: 24 hours (estimated)
Battery life – talk time	2.5 hours (estimated)
Case	ABS plastic
CE Marking	The product is designed to conform with this specification wherever possible and applicable, and is CE marked.
EN55022 Emissions and susceptibility	The product is designed to conform with this specification wherever possible and applicable.
EEC Low voltage Directive	The product is designed to conform with this specification wherever possible and applicable.
SAR level (see below)	Maximum 1.43 W/kg (t777) Maximum 1.29 W/kg (i770)

FCC ID	i770: VTJS10611 t777: VTJS10621
Industry Canada	i770: 7467A-S10611 t777: 7467A-S10621

Specific Absorption Rate (SAR)

The Identicom, as for all Global System Mobile communication (GSM) based products, emits low frequency signals in the form of Radio Frequency Electromagnetic Energy (RFEE). The absorption of RFEE is measured by the Specific Absorption Rate (SAR) in units of Watts per kilogram (W/kg). It is defined as the rate at which RFEE is absorbed per unit mass of a biological body.

The maximum SAR value for a model t777 Identicom is 1.43 W/kg. The maximum SAR value for a model i770 Identicom is 1.29 W/kg. The European R&TTE Directive quotes a maximum SAR value of 2 W/kg. This value includes a substantial margin of safety. The IdenticomS are therefore below this limit and actual Identicom SAR values during normal operation are often below their 1.43 W/kg and 1.29 W/kg maximum stated values.

Risks associated with pacemakers

Due to the maximum SAR values of 1.43 W/kg and 1.29 W/kg, Identicom should not impair the performance of implanted pacemakers. However, the general recommendation is to maintain at least 15 centimetres between a GSM-based device and a pacemaker. If you are in any doubt, seek advice and clarification from your physician and/or the manufacturer of your specific pacemaker.

Use of Identicom in restricted areas

Use of Identicom, as with mobile phones, should be in accordance with regulations, protocols and stipulations relating to the specific environment. Where the use of mobile phones is prohibited, the Identicom should be turned off. There may be

risks associated with interference with equipment sensitive to RFEE (such as aircraft, hospitals and healthcare facilities) or potentially explosive environments (such as petrol stations and chemical plants).

Disposal and recycling information



This product must not be disposed of as unsorted municipal waste. Please dispose of this product in accordance with local environmental laws and guidelines, by returning it to your point of sale or to your municipal collection point for recycling. Note that this product contains a battery that cannot be removed by the customer. For advice on disposal, please contact Connexion2.

FCC Compliance Statement and RF Exposure Statement (t777)

The t777 device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. SAR has been evaluated with a maximum SAR value reported of 1.43W/kg. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Compliance Statement and RF Exposure Statement (i770)

The i770 device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (3) This device may not cause harmful interference, and
- (4) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. SAR has been

evaluated with a maximum SAR value reported of 1.29W/kg. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Compliance Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The S10621 has been designed to comply with safety requirements for exposure to radio waves (SAR). SAR testing has been performed in accordance with RSS-102, with the S10621 transmitting at its highest certified power level in all used frequency bands. The highest SAR value for the S10621 when tested was 1.43W/Kg. Please follow the instructions included in the user guide for product installation and use.

Le S10621 est conçu pour se conformer aux exigences de sécurité pour l'exposition aux ondes radio (SAR). Tests SAR a été effectué conformément à la norme RSS-102, avec le S10621 à son niveau de puissance maximum certifié dans toutes les bandes de fréquences utilisées. La valeur SAR maximale pour le S10621 lorsqu'il est testé était 1.43W/Kg. S'il vous plaît suivez les instructions incluses dans le guide utilisateur pour l'installation du produit et son utilisation.

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

- (2) this device must accept any interference received, including interference that may cause undesired operation of the device

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.