Installation Manual

Monitored GPRS Cellular alarm system for video and audio verification.

XL GPRS - XL600GPRS for USA/Canada, XL700GPRS for Australia/New

Zealand 200GPRS for Europe and rest of the world.

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video alarm technologies

Contents

For further information, consult the installation manual :

- Installation data sheet "Keypad"
- Installation data sheet "Indoor MotionViewer™"
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- Installation data sheet "Indoor siren"
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Regulatory Information for USA

FCC Part 15 Changes or modifications made to this equipment not expressly approved by RSI Video Technologies may void the FCC authorization to operate this equipment.

FCC Part 15 Class B This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the affected equipment and the panel receiver to separate AC power outlets, on different branch circuits.
• Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rulesand with RS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not causeharmful interference, and (2) this device must accept any interferencereceived, including interference that may cause undesired operation.

RF Exposure Warning: During operation, the user has to keep a minimum separation distance of 20 cm with the RF devices.

For Canada:

Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

The Videofied XL GPRS is a completely wireless, self powered video security system. The XL is a monitored system. The main features of the XL include:

- Integrated Video Verification

- Two-Way Voice Verification (Full Duplex)

- Integrated GPRS communicator

- Wireless communication with peripheral devices.

The XL panel is a standalone alarm system with an integrated GPRS / GSM IP communicator for connection to a central station. The panel also features a 105 dB integrated siren, microphone, loud-speaker for two-way voice and a touch sensitive backlit keypad with integrated badge reader..

All Videofied peripheral devices are compatible with the Videofied XL control panel with the exception of the RAR100 remote relay.

• Installation

The Videofied XL system is configured with a Videofied CMA keypad. Basic programming follows a graphical menu-driven path.

The CMA keypad is removed from the system after basic installation is completed. The CMA keypad can be re-enrolled if further configuration is needed at a later time..

• How it works

When the Videofied system is armed and a MotionViewer or wireless door contact is triggered, the control panel will connect to the central station to report the alarm condition. The system also reports tamper, panic and supervisory conditions to the central station. These alarm conditions are reported completely wirelessly over the GPRS cellular network.

Alarms created by detection with a MotionViewer device are accompanied by a 10 second video of the cause of the intrusion. After the alarm is communicated, a two-way voice verification session is possible between the control panel and the central station. Voice verification is full duplex over GSM cellular.

• Specifications

- Video Verification

- Two-Way voice audio verification (Full Duplex)

- Integrated GSM / GPRS Communicator

- Integrated badge reader

- Touch sensitive, backlit keypad

- Self powered – 8 D-Cell Alkaline batteries

- Adjustable entry / exit delays

- Up to 19 badges or user codes

- Up to 19 Videofied peripheral devices

Siren and loud-speaker

Microphone

Touch-sensitive keypad

Locking screw

Badge reader
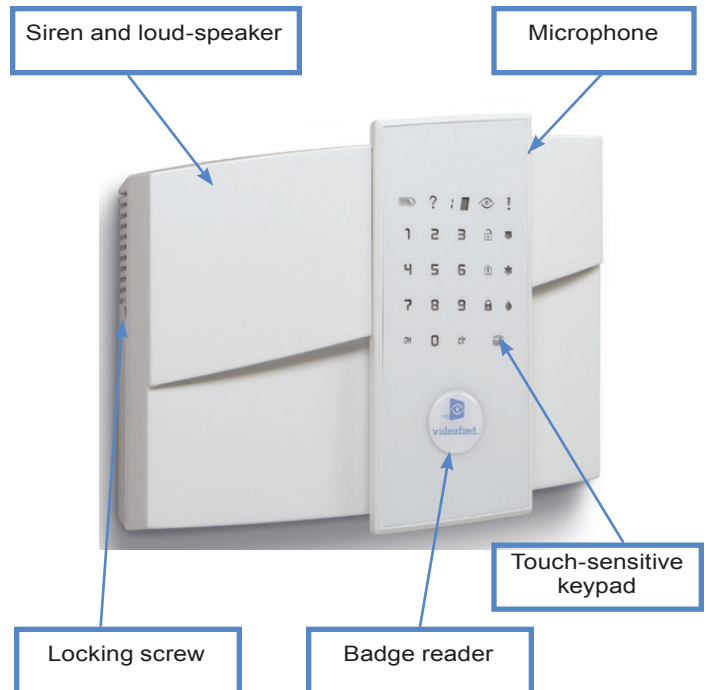
1. Pre-Installation Information

• Naming the 4 Logical Areas

Areas are meant to show logical separation between devices. The feature is important for configuring entry and exit devices, and also for configuring the 'Stay' mode. Devices that are categorized in area number 1 will always be subject to the entry and exit delay. The table below presents shows a typical area configuration for a light commercial and residential installation.

Area	Office Installation	Area	Resi Installation
1	ENTRY DELAY	1	ENTRY DELAY
2	FRONT OFFICE	2	LIVING ROOM
3	ACCOUNTING	3	UPPER LEVEL
4	WAREHOUSE	4	GARAGE

(Devices learned to Area 1 are subject to the entry and exit delay.)

• Naming Devices

Prepare names for the devices that will be enrolled to the system. The Videofied XL can be programmed with a complete logical name for each peripheral device up to 16 characters in length.

• Choose which area each device will be programmed to.
Devices that are placed in Area 1 will behave with an entry and exit delay. Devices placed in any other area will provide an instant alarm trigger.

• Choose which devices will be armed the 'Stay' mode.

• Retrieve code list to be programmed from end user
(19 maximum access codes with 4 to 6 numbers per code).

2. System Basics

1 Devices in **Area 1** are always **delayed.**

2 **Do not install** the Videofied XL control panel on or near a **high voltage electrical panel**. This can cause interference resulting in poor performance of the radio and GPRS modem.

3 This one doesn't apply to the XL as it should be by the entrance so people can arm/disarm the system.

4 Use the CLR to backspace on the keypad.

5 Devices can only be recorded once. A device must be deleted before being recorded again.

6 The system supports a **maximum of 19 peripheral** devices in any device type combination.

7 PIR and MotionViewers should be mounted **2m10 to 2m35 (7' to 8') high.**

8 Outdoor MotionViewers should be mounted **2m to 3m (7.5' to 9') high**. These devices should be mounted in a manner that terminates the view of the PIR, protecting an asset rather than an area..

9 Mount the remote keypad last as the device is useful to have mobile during the installation procedure.

10 **Always clean** the camera lens after installation (Use a clean dry piece of cloth. Take care not to apply pressure to the lens.).

11 Use the M/m key to change case when typing on the keypad.

12 Use caution when opening and closing the panel cover as internal components are fragile.

2. System Basics

13 The keypad display will time-out after 30 seconds of inactivity. Press the [YES] key to bring the display back.

14 The control panel, interior siren, and exterior siren use D-Cell alkaline batteries.

15 The ITRA110and DCVA200/700 (devices with pet immune) should never be placed in stairs, or near stairs. (Risk of false alarms).

3. Installation and programming

Open the box and remove the cardboard mounting template sitting on top. Place template on wall with arrow pointing upward. Mark the 5 screw points on the wall and drill pilot holes for wall anchors. Install wall anchors, then attach base of control panel to wall. A screw must be used in the tamper protection hole for the panel wall tamper to function correctly.

Insert 8 D-Cell alkaline batteries in the battery trays. Make sure to note proper battery orientation. Before removing the front side of the packaging box, insert the SIM card (voice/data or GSM/GPRS) as illustrated in figures 1 and 2.
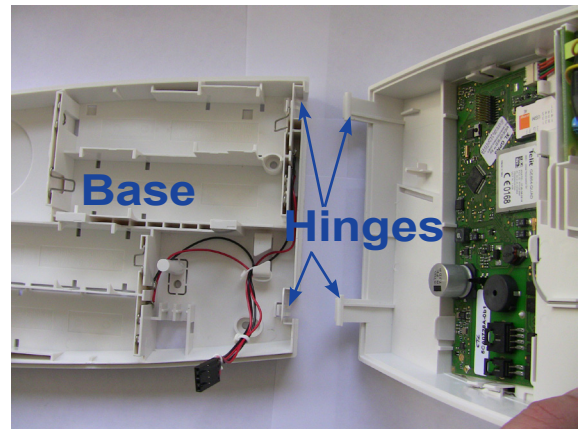
Figure 1

Figure 2
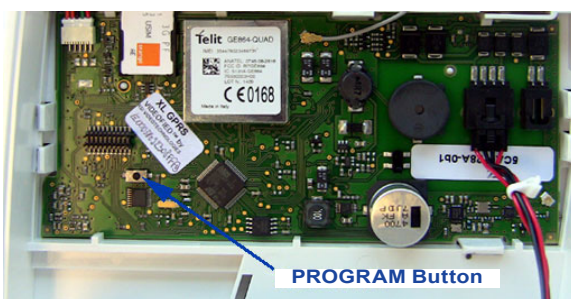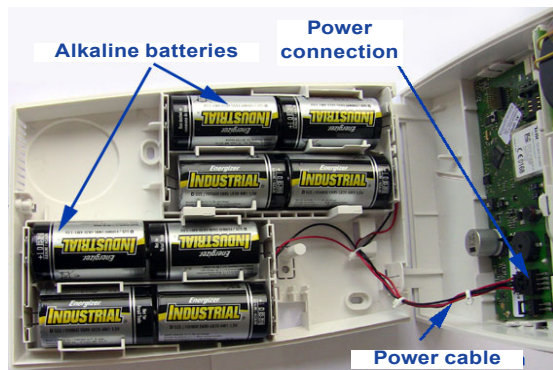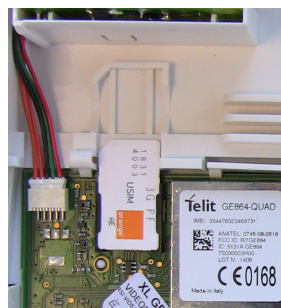
Connect the front side to the base by aligning the hinges on the base as seen above.

3.1 Initialize the panel

• Insert the power cable into the power connection (the panel emits a beep) and the keypad lights up and flashes.

• Hold down the PROGRAM BUTTON on the panel for 10 seconds untiil the keypad beeps again and lights up all the keys of the panel keypad.

• Press and release instantly the PROGRAM BUTTON of the panel again to switch to keypad registration mode.

3.2 Record the keypad (Ref. Keypad installation data shee)

• Insert the 3 **Lithium LS14500 batteries** in the keypad.

• Do not mount the keypad.

• **Simultaneously press** the [CLR] and [ESC NO] buttons on the keypad, until the keypad's LED flashes, then release.

3.3 Close the panel cover

• Tighten the screw on the left side of the control panel to secure the cover.

3

Display of the keypad

Actions and Descriptions

KEYPAD 1 RECORDED

[YES] ↵

< - LANGUAGE - > ENGLISH

[←] [→] to select the language.

RADIO RANGE TEST ?

[YES] ↵

Verify the range : A value of 5/9 or better indicates a sufficient RF radio.

RADIO RANGE x/9

Wait for 30s in order to obtain the first stable value

RADIO RANGE 9/9

[YES] ↵

Stop the radio range test.

RADIO RANGE TEST ?

[ESC NO]

ENTER THE INSTALLER CODE

Wait

4 TO 6 DIGITS THEN YES

Wait

INSTALLER CODE :

Installer code + [YES] ↵ , then confirm : Code + [YES] ↵

CODE NAME :

Naming the code + [YES] ↵

ADJUSTING TIME AND DATE

Wait
Use **right** or **left** arrows [←] [→] to modify the parameters and the [YES] key to save the value and move to the next.

DATE (Year) : 00/ /

Repeat for **Month**, **Day**, **Time** and **Minutes**.

CONNECTED TO MONITOR STATION?

[YES] ↵

Display of the keypad	**Actions and Descriptions**
ACCOUNT NUMBER :	Enter the account number issued by your central station +
PERIODIC TEST	
PERIODIC TEST : 24 HOURS	to change the period +
TEST HOUR : 00	to increase hours + , and do the same for minutes.
CODE/STATE MODIFICATION ?	ESC NO to keep default transmitted events or (to modify the event transmission status,and the on/off controls, refer to Chapter 6.Details on the alarm codes menu, page 10).
PANEL PHONE NB:	Enter # for sim card, if Unavailable ENTER '1' then
ENTER YOUR I.D. :	Wait
NAME OR ADDRESS	Enter "name" or "address" + (Name of the client, informative and optional data only).
NAME OR ADDRESS ENTRY COMPLETE	Wait
SENDING ALARM BY EMAIL?	Press ESC NO
AREA CONFIGURATION	
AREA NAME 1 :	Enter the name of the logical area 1 + . Repeat this step for each area. Refer to page 2 for more information.
EXIT DELAY : 45 sec	to modify the value +
ENTRY DELAY : 15 sec	to modify the value +
GPRS PARAMETERS ?	

GPRS parameters are provided by the cellular carrier. It is necessary to enter the correct information for the carrier you use.

Remark : GPRS Parameters are Case Sensitive ! (use the M/m key of the keypad to change between upper / lower case letters).

Be careful : Use arrows to change from one parameter to the other. Press on the [YES] key only when you want to modify a parameter!

(The APN code is provided by your cellular provider. These parameters will change with the SIM card used. Ask your cellular provider for additional information.)

Display of the keypad

APN CODE

This should walk you through pressing the [YES] key then modifying the parameter then [YES] key again then arrow to next parameter like it does when you are going through initial programming off to the right.

GPRS LEVEL

TEST IN PROGRESS
END = YES

GPRS LEVEL
5/5

PRESS PROGRAM
BUTTON OF DEVICE

Actions and Descriptions

GPRS carrier parameters are entered in this section.

The first parameter is the APN code.

By default, the fields will be blank.

Press [YES] to modify the value or the right arrow to move on to the next parameter.

Second parameter: USERNAME
Third parameter: PASSWORD

IP, Domain and Port information is provided by your central station,

Press the [ESC NO] to return to the GPRS PARAMETRES menu.

[ESC NO] to exit the menu.

Press the [↵ YES] and wait for the reception level. Do not remove the SIM card during this test!

Wait (this could last for 3 minutes) for the result of the test which can be :
- a level between 2/5 and 5/5

- an error code (in this case, view the list of GPRS error code descriptions on page 11)

Do not install the system in an area where GPRS reception is lower than 3/5.

Press [YES] record your devices : (please refer to installation data sheets for each device).

4. Completing Programming

After all devices have been recorded and mounted the display will show :

Display of the keypad

ENTERING A NEW
DEVICE ?

[ESC / NO]

OPERATION
COMPLETED ?

[↵ / YES]

SYSTEM CHECK
IN PROGRESS

INSTALLATION
SUCCESSFUL !

Actions and Descriptions

(Close the cover of the panel)

> All that remains is to program the user codes and special arming profiles.

Verify that the control panel is completely closed, and the screw is tightened properly on the left hand side.

5. How to…

5.1 Configure the Special Arming Profiles

With the direction arrows [←] [→] go to the menu

CONFIGURATION (LVL 4) -> **ALARM MODES PROGRAMMABLE**

Then use the direction arrows to select the relevant arming mode and the [YES] key to modify it.

There are three possible arming modes.

NORMAL MODE is the general arming mode, set using a badge or with a user code and keys *OK* or 🔒 .

SPECIAL MODE 1 is a partial mode activated by entering a user code and pressing the 🏠 . This mode is also accessible on a CMA keypad via the [🏠1] and via an RC remote control via the 🏠1 .

SPECIAL MODE 2 is not accessible on the keypad of an XL panel. It is available on a CMA keypad via the [🏠2] and via an RC remote control via the 🏠2 .

For each arming mode, it is possible to specify how each of the 4 areas will be armed and how the system will behave during an alarm.

Areas : 1 2 3 4   Each time you press the corresponding number, the system will toggle the arming state for the respective area.

State : A A A A   Press the [YES] key after this configuration step. The system will then display which siren mode will be in effect for this special profile. Select the siren mode using the direction arrows then press [YES].

A	Armed	
D	Disarmed	
P	Perimeter (all the opening contacts)	
E	External (opening contacts protecting an exterior access)	

Siren	Immediate triggering of all sirens
Delay beeps	Entry/Exit delay beeps, then triggering of the sirens
Silent	Without siren without beeps
Without siren	Beeps on the keypad only

Special Modes 1 and 2 prompt to rename the profile after selecting the siren mode. This prompt will display "DESIGNATION MODE:". Use the keypad to enter a logical name or press the [YES] key with the field blank to store the default.

5.2 Delete the keypad

Display of the keypad	Actions and Descriptions

| ACCESS LEVEL 3 | [YES] |

| ACCESS LEVEL LEVEL : 3 => 4 | Use the right arrow to change the access level to 4. |

| BADGE OR CODE | Enter the installer code + [YES] |

| ACCESS LEVEL 4 | Use the right arrow to go to the **CONFIGURATION** menu. |

| CONFIGURATION | [YES] |

| BADGE OR CODE | Enter the installer code + [YES] |

| GENERAL PARAMETERS | Press the left arrow twice to go to the **AREAS AND DEVICES** menu. |

| AREAS AND DEVICES | [YES] |

| DEVICES | [YES] |

| ADD A NEW DEVICE | Right arrow to go to the **DEVICE CONFIGURATION** menu. |

| DEVICE CONFIGURATION | [YES] |

| A1:KEYPAD KEYPAD 1 | [YES] (If necessary, use the direction arrows to select the keypad). |

| DELATE KEYPAD | [YES] |

| < = = = = XX = = = = > | You can remove the keypad batteries. |

5.3 Reconnect a CMA keypad to an XL panel without opening the cover after initial programming has been completed.

Wave your hand over the XL keypad to activate the display. Press and hold the 🔓 or three seconds to enter the programming mode. When you have successfully entered the programming mode the keypad display will flash. Type the code '000000' then press *OK* .This will enable keypad registration mode. The numerical LED display will begin to dance.

Install the batteries in the CMA keypad. Simultaneously press and release the [CLR] and [ESC NO] buttons on the keypad. The red LED indicator light will blink rapidly, then twice slowly. The keypad display will change to **KEYPAD 1 RECORDED**. Press the [YES] key to acknowledge this, then type the installer code for the system followed by the [YES] button.

This keypad learning procedure is only used when connecting a CMA keypad to the XL control panel after initial programming. For initial system configuration refer to page 3.

Display of the keypad	Actions
KEYPAD 1 RECORDED	[YES]
INSTALLATION CODE	Enter the installer code + [YES]

5.4 Activate or deactivation the flashing green battery symbol

It is possible to activate or disactivate the flashing green battery symbol.

Bear in mind that when this symbol is activated, the product has less battery life and the batteries will have to be changed within 4 years.

Enter in special mode by pressing for 3 seconds on the 🔓 and the numerical keypad starts to flash.

Type the code 000100 then *OK* the digital keypad will remain illuminated while the green battery symbol starts to flash with the number 0 or 1 on the 7-segment digit.

The number shown is an indication of the display configuration for the battery symbol (0 for disactivated, 1 for activated).

5.5 Opening the cover of an installed XL panel

Unscrew the screw on the left-hand side of the panel from the base on the hinges.

Default Transmitted Events

In all cases, be sure to check that the configuration of your XL system is suitable for your needs.

By default these events are transmited:
DEVICE (intrusions) **ALERT** (button) **TAMPER** **PERIODIC TEST** **PANEL BATTERIES** **DEVICE BATTERIES** **SUPERVISION**

By default are not transmited:
INITIALIZATION **PANEL BATTERIES** (low panel batteries) **AC POWER** (AC power failure) **PHONELINE FAULT** (line failure) **DEVICE BATT.** (low device batteries) **RADIO JAMMING** (radio jamming) **SUPERVISION** (default supervision) **WRONG CODES** (when entering 5 incorrect codes/badges) **DURESS CODE** **ALARM MEMORY** (purge of old memory) **ARM/DISARM** (open/close)

There are the 3 transmission states:
ALARM, event is transmitted upon occurence. **ALARM / END,** event is transmitted on occurrence and on event restoral. **NOT TRANSMITTED**

Example:

If this system is configured at your central station for supervised openings and closings, the parameter **ARM / DISARM** must be changed from **NOT TRANSMITTED** to **ALARM / END**

Changing the transmission type for an event

Two Methods:

• **During initial programming and after the prompt for PERIODIC TEST the keypad will display :**

CODE/STATE MODIFICATION ?

Press [⏎ YES] to access the menu **TRANS. STATE MODIFICATION**

• **After initial installation with a CMA keypad :**

Use the direction arrows [←] [→] to browse to **CONFIGURATION** (level 4) -> **CONFIGURATION MONITOR. STATION** -> **ALARM CODES** -> **TRANS. STATE MODIFICATION**

Then:

Use the direction arrows [←] [→] to find the event type to be modified. Press the [⏎ YES] to edit the item, then the direction arrows to choose the transmission option. Press the [⏎ YES] button to save the option.

7. GPRS Error Codes

SIM cards for use with Videofied control panels must either have security features disabled. No prompt for SIM PIN code.

Below is a list of error codes that may be listed in the event log or displayed during the GPRS level test.

GPRS LEVEL :
ERROR XXX

In case of GPRS error during initial programming, it is recommend to continue installation by recording detectors and devices, returing to the GPRS level test after initial configuration is complete.

868 Mhz Codes

Codes	Errors
03 ou 04	No network coverage or no SIM card inserted
010	SIM not inserted
011	Code PIN necessary -> *The PIN code must be deactivated*
012	PUK code necessary, SIM card blocked
013	Default SIM card
014	SIM card busy
015	Error on SIM
016	Incorrect password
017	SIM PIN2 necessary -> *The PIN code must be deactivated*
018	SIM PUK2 necessary
022	SIM not found
030	No network coverage or SIM not active/provisioned
040 : 047	SIM card non inappropriate or blocked -> *Unlock with PUK code*
149	Authentification error -> *Network problem or incorrect parameters (APN, USER, ...)*
107	Service not activated -> *SIM card unsuitable*

915 MHz codes
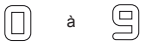
Codes	Errors
043	Typographical error in the APN Code, username, password or a provisioning problem
003	SIM card not detected/not inserted
132	SIM card not activated
030	GPRS Level Test: No GPRS Signal; Event Log: No Error Found

Symbols	Explanations
🔋	• When the indicator light is green: indicates that all the batteries (panel + peripheral) are OK • When the indicator light is red: indicates that there is a battery fault either on the panel or on a peripheral device (the device number will be indicated on the display)
?	• During arming: signals the detection of a peripheral device in a zone not on a time setting • Not armed: tamper fault detection (the Number will be indicated on the display)
❘ ▢	Used in order to identify: • Number of the peripheral device (0 for the panel and 1 to 19 for the peripheral devices) in the vent of tamper fault, intrusion, low battery, etc. Will also display 'E' if the panic button is pressed. • Incorrect user code ('C' for wrong code)
👁	Indicates that there has been an intrusion
!	Indicates any other fault (radio interference, ect.) also indicates panic alarm

Symbols	Explanations
🔓	Used to disarm the system (after entering the code)
🏠	• Enables the 'Stay' mode (Special Mode 1) after entering the proper user code. • Flashes when the system is armed in the 'Stay' mode (Special Mode 1)
🔒	•Fully arms system(after entering the code) • Flashes when the system is fully armed
OK	Fully arms system (after entering the code)

Symbols	Explanations
PANIC	Key to be held down for 3 seconds to activate panic buttons
🛡	Once it lights up, pressing this key will send a police call through to the monitoring station
✳	Once it lights up, pressing this key will send an emergency call through to the operators
🔥	Once it lights up, pressing this key will send an emergency call through to the operators
clr	This key allows you to cancel the activation of the panic buttons

Symbols	Explanations
0 à 9	Keys for entering user codes
OK	Key for confirming code
clr	Backspace / Delete Entry Key

Using the numeric keypad: to conserve the batteries, the numerical keypad automatically turns off after a few seconds of not being used. Before entering the code, you need to reactivate it. To do so, place your hand flat over the numeric keypad, it will light up and then you can use it.

9.   **SCHEDULING**

Feature definition

The scheduling defines the capability for the panel to launch automatic *actions* at predefined *appointments*.
Typical *actions* are OPEN or CLOSE

Each *appointment* has to be specified with a date, time, type of action and parameters.
The group of *appointments* determines the *calendar* of actions.
The *calendar* of actions can be *advanced* (it means that all actions can be scheduled at any time) or limited and *local* in the panel (OPEN/CLOSE appointments for the week).

The new firmware has the advance calendar ability built in, but it won't be possible to use until Frontel is updated. The Frontel update is not available at this moment (and therefore the advance calendar will be an active feature later on the year).

The *local calendar* is defined for each day (Monday, ... , Sunday) of the week.
➢   Local calendar can be set with the CMA only. *See appendix A to B for more details*
➢   The way to define the calendar with the CMA will be easy
➢   No need of connection with Frontel to get this feature.
➢   Only OPEN/CLOSE action can be scheduled

a. Activation of the scheduling
The scheduling mode can be selected with the CMA, where a new menu is located in AREAS AND DEVICES menu.
The access of the scheduling feature is limited to installers.
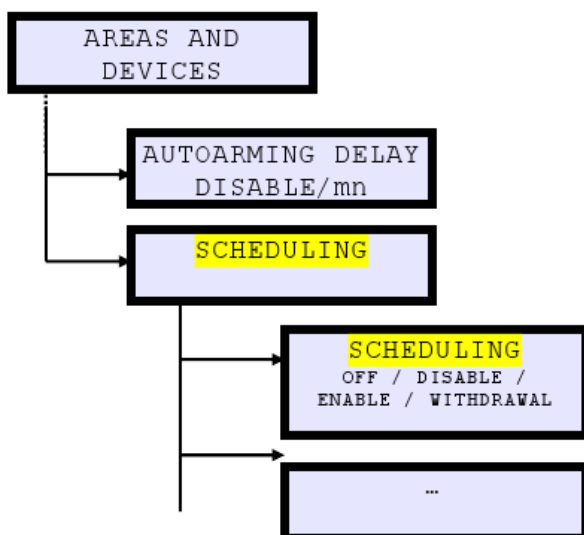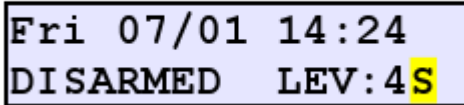
Please use only the OFF and ENABLE as the DISABLE and WITHDRAWAL functions are related to the Advance calendar.

b. Identification of panels where scheduling is running

It could be important to identify when the system gets scheduling running.

When the panel gets appointments, the standby display of CMA has to display a 'S' at the right of the clock.

Where 'S' at the bottom right of the LCD (stand by display only), means "Schedule running"

```
Fri 07/01 14:24
DISARMED  LEV:4S
```

'S' shall not be displayed when:

o Scheduling mode is OFF

o Scheduling mode is different from OFF and there are no further appointments

c. Remark and limitation concerning the OPEN or CLOSE actions

o **Arming speed** = slow like on XL, XV and stand-alone XT.

o **Arming profile** = a scheduled arming will start a full arming.

o **How manage triggered sensors during the arming process?** Same process than on XL, XV and stand-alone XT, where arming process is restarted after 3mn timeout and sensor ejected if triggered after the second 3mn timeout.

o **How manage a re-arming action when the panel is already armed?** In this case, the action shall be ignored and the arming delay shall not start.

o **Compatibility with the auto-arming feature?** There are some limitations between AUTOARMING and SCHEDULING:

When AUTOARMING DELAY is enabled the SCHEDULING must be disabled (mode OFF).

When the SCHEDULE ARMING is enabled (different from OFF), the AUTOARMING DELAY must be disabled.

o **Authorized actions when scheduling is enabled:**

Arming/Disarming with automate/batching/scripting/GI/FrontelAlarmViewer still be possible.

Arming/Disarming with keypad, badge reader or keyfob still be possible.

d. Warning bip for automatic OPEN or CLOSE actions

When an automatic CLOSE (arming) will occur, the panel emit a warning bip few times before (based on Cingular product):

10 minutes before the end of the disarming temporization, the panel will send a warning "bip" signal for 10 seconds => this warning bip will not occur for appointment between 00:00 and 00:10

5 minutes before the end of the disarming temporization, the panel will send another warning "bip" signal for 10 seconds. => this warning bip will not occur for appointment between 00:00 and 00:05

1 minute before the end of the disarming temporization, the panel will send another warning "bip" signal for 10 seconds.

- ➢ This warning bip can be disabled or enabled through a new CMA menu.
- ➢ The warning bip concerns the AUTOARMING and the SCHEDULING features.

The default value is ENABLE.
- ➢ Warning bip doesn't sound when WITHOUT SIREN or SILENT alarm modes are selected

```
          ┌──────────────────┐
          │   AREAS AND      │
          │   DEVICES        │
          └──────────────────┘
            ┊
            │   ┌──────────────────────┐
            ├──▶│ AUTOARMING DELAY     │
            │   │ DISABLE/mn           │
            │   └──────────────────────┘
            │   ┌──────────────────────┐
            ├──▶│ SCHEDULING           │
            │   └──────────────────────┘
            │         │  ┌─────────────────────────┐
            │         ├─▶│       SCHEDULING        │
            │         │  │    OFF / DISABLE /       │
            │         │  │  ENABLE / WITHDRAWAL     │
            │         │  └─────────────────────────┘
            │         │  ┌─────────────────────────┐
            │         └─▶│           ...            │
            │            └─────────────────────────┘
            │   ┌──────────────────────┐
            └──▶│ WARNING BIP          │
                │ DISABLE / ENABLE     │
                └──────────────────────┘
```
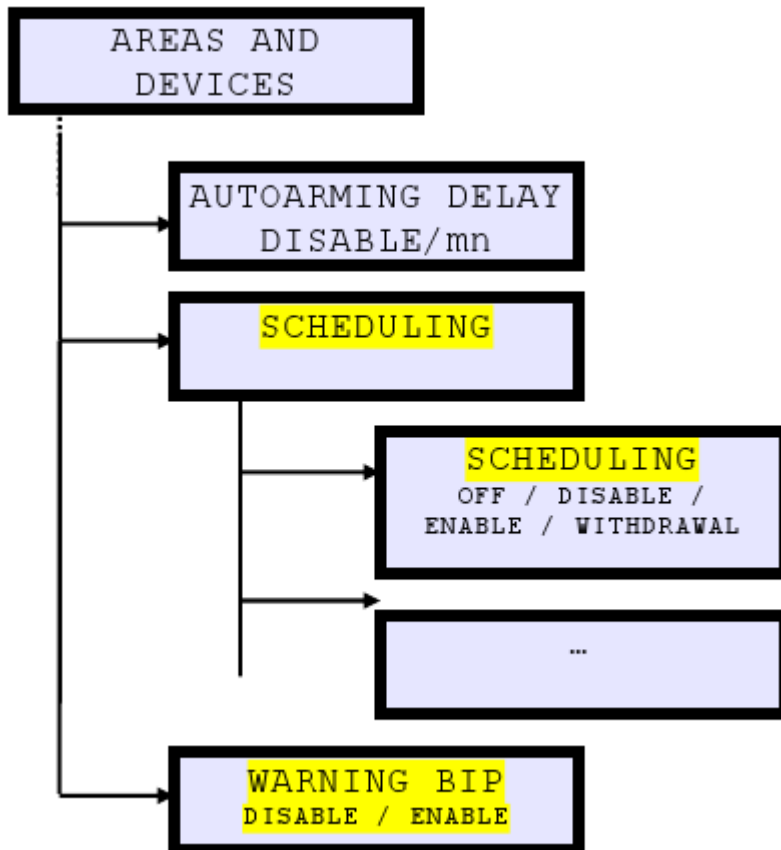
1. Local calendar feature
The local calendar is created and managed with the CMA.
The scheduling defines the capability for the panel to launch automatic *actions* at predefined *appointments*.
a. Appointments structure
The installer can defined appointments where parameters to be set are
- o Time (24h format)
- o Concerned days of the week
- o Type of action (OPEN or CLOSE)

The following situation shall be possible:
- o Arming/disarming time can be different each day of the week, of the year.
- o There can be some days without arming/disarming actions.
- o Multiple arming/disarming actions can be defined in the same day.

b. Creation of a local calendar

Calendar entries in the weekly calendar must be easy to create, modify and controlled with the CMA.
For each calendar entry, the installer shall be able to indicate :
- The day and time of the action
- The type of action (OPEN (disarming) or CLOSE (arming))

Installer can create up to 99 appointments
⇨　It is not possible to define multiple appointments at the same day and time.

Suggestion for entries format:
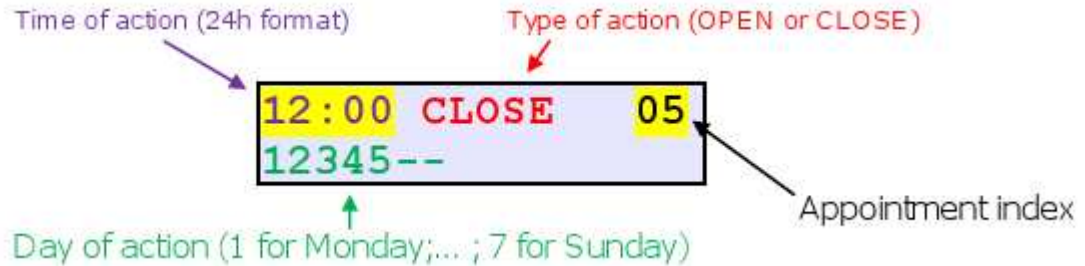
Example:

07h30 OPEN 12345--	System OPEN at 07h30 each Mon, Tue, Wed, Thu and Fri
09h00 OPEN -----67	System OPEN at 09h00 each Sat and Sun
12h00 CLOSE 12345--	System CLOSE at 12h00 each Mon, Tue, Wed, Thu and Fri
14h00 OPEN 12345--	System OPEN at 14h00 each Mon, Tue, Wed, Thu and Fri
19h00 CLOSE 1234567	System CLOSE at 19h00 each day (from Mon to Sun)

c. Storage of local appointments in the panel

Local appointments are stored in the flash memory of the panel (=> no limitation)
Only the next appointment is stored in the RAM

2. Time and DST issues

The scheduling feature requests to know the correct time at any time.

In case of the time of the panel has been lost:

Whatever the selected scheduling mode, if the panel lost its clock after a missing power or any other reason, the scheduling must be disabled until the clock has been updated (by user, installer, Frontel or GPRS)

Scheduling and DST time changes:

DST change orders will be managed with the *advanced calendar* feature.

Specific actions will be available for that.

On panel using the scheduling with the *local calendar*, we recommend to activate the GPRS time feature and select a daily periodic test after 03:00 that is the standard time for the DST change. In this case the fact to send the periodic test will update the clock of the panel.

Scheduling and DST change periods:

It is recommended to not schedule any action in the change periods.

At DST beginning (+1h), a short time is lost.

⇨   All appointments scheduled in this period will be lost except the OPEN/CLOSE appointments

At DST end (-1h), short time is added to the day.

⇨   All advanced appointments scheduled in this period will already have been executed and will have disappeared from the calendar.

APPENDIX - A

CREATION OF A NEW CALENDAR

```
AREAS AND
DEVICES
        |
        v
   SCHEDULING
        |
        |----> SCHEDULING
        |       ENABLED
        |
        |----> CALENDAR        OK/YES --> NO CALENDAR        NEW ENTRY ?          ESC/NO -->
        |      MANAGEMENT                                    OK/YES or ESC/NO
        |                                                         |
        |                                                       OK/YES
        |----> ERASE THE                                          |
        |      CALENDAR                                           v
        |         |                                      00:00 OPEN      01     ESC/NO -->
        |       OK/YES                                         |
        |         |                                     Arrow to select the hours
        |         v                                  CLR      + OK/YES
        |    ERASE CALENDAR?                                       |
        |    OK/YES or ESC/NO                                      v
        |         |                                     07:00 OPEN      01     ESC/NO -->
        |       OK/YES    ESC/NO                                |
        |         |                                     Arrow to select the minute
        |         v                                            + OK/YES           CLR
        |    All calendar entries are                               |
        |    erased!                                               v
        |         |                                     07:45 OPEN      01     ESC/NO -->
        |    CALENDAR ERASED                                    |
        |                                              Arrow to select OPEN or
        |                                              CLOSE + OK/YES
        |                                                        |
        |                                                        v
        |                                     CLR      07:45 OPEN      01     ESC/NO -->
        |                                              _ (1=Mon...7=Sun)
        |                                                        |
        |                                              1 for Monday
        |                                              2 for Tuesday
        |                                              3 for Wednesday
        |                                              4 for Thursday
        |                                              5 for Friday
        |                                              6 for Saturday
        |                                              7 for Sunday
        |                                     CLR      + OK/YES when all days selected
        |                                                        |
        |                                                        v
        |                                              07:45 OPEN      01     ESC/NO -->
        |                                              12345--
        |                                                        |
        |                                              OK/YES for validation
        |                                                        |
        |                                              Calendar entry is recorded
        |                                                        |
        |                                              Edition of a new entry
```

APPENDIX - B

AREAS AND
DEVICES

SCHEDULING

SCHEDULING
ENABLED

CALENDAR
MANAGEMENT

OK/
YES

ERASE THE
CALENDAR

```
07H45 OPEN    01
12345--
```

```
09H00 OPEN    02
-----67
```

```
12H00 CLOSE   03
12345--
```

```
14H00 OPEN    04
12345--
```

```
19H00 CLOSE   05
1234567
```

Arrows to list all entries

ESC/NO

OK/
YES

ESC/NO

MODIFICATION
mode is
accessible with
the right arrow!

ESC/NO

CLR

```
NEW ENTRY ?
OK/YES or ESC/NO
```

ESC/NO

```
14H00 OPEN    04
12345-- REMOVE ?
```

OK/
YES

OK/
YES

Entry is removed from the
calendar
Index of other appointments
are redefined

```
__
00:00 OPEN    05
```

ESC/NO

Arrow to select the hours
+ OK/YES

CLR

```
14:00 OPEN    05
```

ESC/NO

Arrow to select the minute
+ OK/YES

CLR

```
14:15 OPEN    05
```

ESC/NO

Arrow to select OPEN or
CLOSE + OK/YES

CLR

```
14:15 OPEN    05
_ (1=Mon...7=Sun)
```

ESC/NO

1 for Monday
2 for Tuesday
3 for Wednesday
4 for Thursday
5 for Friday
6 for Saturday
7 for Sunday
+ OK/YES when all days selected

CLR

```
14:15 OPEN    05
12345--
```

ESC/NO

OK/YES for validation

Calendar entry is recorded

Edition of a new entry

21

APPENDIX - D

LOCAL ENABLED ONLY

7 days LOCAL calendar (in the panel)

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
OPEN	07:30	07:30	07:30	07:30	07:30	09:00	00:00
CLOSE	12:00	12:00	12:00	12:00	12:00		
OPEN	14:00	14:00	14:00	14:00	14:00		
CLOSE	19:00	19:00	19:00	19:00	19:00	19:00	19:00

When LOCAL is enabled and there is no advanced calendar, local appointments for OPEN or CLOSE actions are the only scheduled actions.

Running calendar in Panel

	Mon 13 déc	Tue 14 déc	Wed 15 déc	Thu 16 déc	Fri 17 déc	Sat 18 déc	Sun 19 déc	Mon 20 déc	Tue 21 déc	Wed 22 déc	Thu 23 déc	Fri 24 déc	Sat 25 déc	Sun 26 déc	Mon 27 déc	Tue 28 déc	Wed 29 déc	Thu 30 déc	Fri 31 déc	Sat 01 janv	Sun 02 janv	Mon 03 janv	Tue 04 janv	Wed 05 janv
OPEN	07:30	07:30	07:30	07:30	07:30	09:00	00:00	07:30	07:30	07:30	07:30	07:30	09:00	00:00	07:30	07:30	07:30	07:30	07:30	09:00	00:00	07:30	07:30	07:30
CLOSE	12:00	12:00	12:00	12:00	12:00			12:00	12:00	12:00	12:00	12:00			12:00	12:00	12:00	12:00	12:00			12:00	12:00	12:00
OPEN	14:00	14:00	14:00	14:00	14:00			14:00	14:00	14:00	14:00	14:00			14:00	14:00	14:00	14:00	14:00			14:00	14:00	14:00
CLOSE	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00

```
                                    End of Initial
                                     Programming
```

- **Event Log**
  - Select Last Events
    - Event List

- **Badges / Access Codes**
  - Enter A Badge/ Code
  - Badges/Codes Configuration
    - Badge/Codes List
      - Modif. Name Badge/Code
      - Access Level #
      - Schedule Authorize
        - Select/Modify Schedules
        - Enter A New Schedule
      - Areas Disarmed
      - Alarm Modes Enabled
        - Alarm Modes Enabled
        - Alarm Modes Enabled
        - Alarm Modes Enabled
  - Deleting Badges/ Codes
    - Badge/Code List

- **Programmable Features**
  - Panic Buttons
    - Police Siren/Disable/Silent
    - Medical Siren/Disable/Silent
    - Fire Siren/Disable/Silent
  - Config Bypass
    - List Of Devices _ / BYPASS
  - SMS
    - SMS Decoding Enabled/Disabled
    - SMS Reply Enabled/Disabled

- **DISARMED LVL**
  - System Armed

- **Access Level**
  - Access Level Level #

- **Configuration**
  - Configuration Menu (Page 41)

- **Maintenance**
  - Modifying Date/Time
  - Maintenance Replace Batteries
    - Maintenance Devices/Panel
  - Functional Device Test
  - Device Locating
    - Modifying Date/Time
  - Audio test Equipment
    - Audio Device List
  - Display Faulty Devices
    - Devices List
  - GPRS Level

XL Configuration Flow Chart

Configuration

General Parameters

- **Site Identification**
  - Phone Number
  - Name Or Address
- **GPRS Parameters**
  - APN Code
  - Username
  - Password
  - Packet Size
  - Data Timeout
  - SMTP GPRS
  - Port GPRS
  - Max Seg. Size
  - Ring Tone Off/Auto
- **Touchpad & keypad**
  - Low Batt Msg Disable/Enable

Alarm Modes Programmable

- **Fully Armed**
  - Areas: 1234 State: AAAA
  - Areas: 1234 State: AAAA
- **Alarm SP1**
  - Areas: 1234 State: AAAA
  - Alarm Siren/Silent/W. Sir.
  - Silent Arming Disable/Enable
  - Designation Mode
- **Alarm SP2**
  - Areas: 1234 State: AAAA
  - Alarm Siren/Silent/W. Sir.
  - Silent Arming Disable/Enable
  - Designation Mode

Responding Party List

Not Supported in North American Market

Areas and Devices

- **Devices**
  - Add A New Device
  - Devices Configuration
    - Devices List
      - Delete Device
      - Changing Name Device
      - Changing Area Device
      - 24 Hour Device Enable/Disable
      - 24 Hour Siren Mode
- **Areas**
  - Areas List
    - Area Content # Area #
      - Area Devices List #
    - Changing Name Area #
- **Siren Duration Intrusion**
- **Siren Duration Tamper**
- **Entry Delay**
- **Exit Delay**
- **Delay Beeps Enabled**
- **Auto Arming Delay**
- **Scheduling**
  - Scheduling Off/Enabled
  - Calendar Management
  - Erase Calendar?
  - Erase Calendar?
  - Calendar Erased
- **Warning Bip Enabled**

Configuration Monitor Station

- **Monitoring Parameters**
  - Monitoring? Enabled
  - Account Number
  - Server Addresses
    - IP 1 Address
    - Domain Name 1
    - Port 1
    - IP 2 Address
    - Domain Name 2
    - Port 2
    - TMT IP Address
    - Domain Name TMT
    - Port TMT
- **Periodic Test**
  - Periodic Test
  - Test Hour
  - System Armed Enabled/Disabled
- **Periodic Call Monitoring Station**
  - Periodic Call Disable, 30, 90
  - Test Hour
- **Alarm Codes**
  - Trans State Modification
  - Event List
- **Intercom**