

# VIMATY 70ZR

- . VIMATY 70ZR
- . ZIGACCESS/ST
- . V7TOP



## User Manual

# THANK YOU & CONGRATULATIONS!

Thank you for purchasing the VIMATY 70 ZR™ standalone Wireless touch panel of VITY Media Bus Control® automation system. VIMATY 70 ZR™ is a standalone and programmable 7 inches LCD colour touch panel to replace all your remote controls. This manual is made to assist you to install the different models of VIMATY 70 ZR

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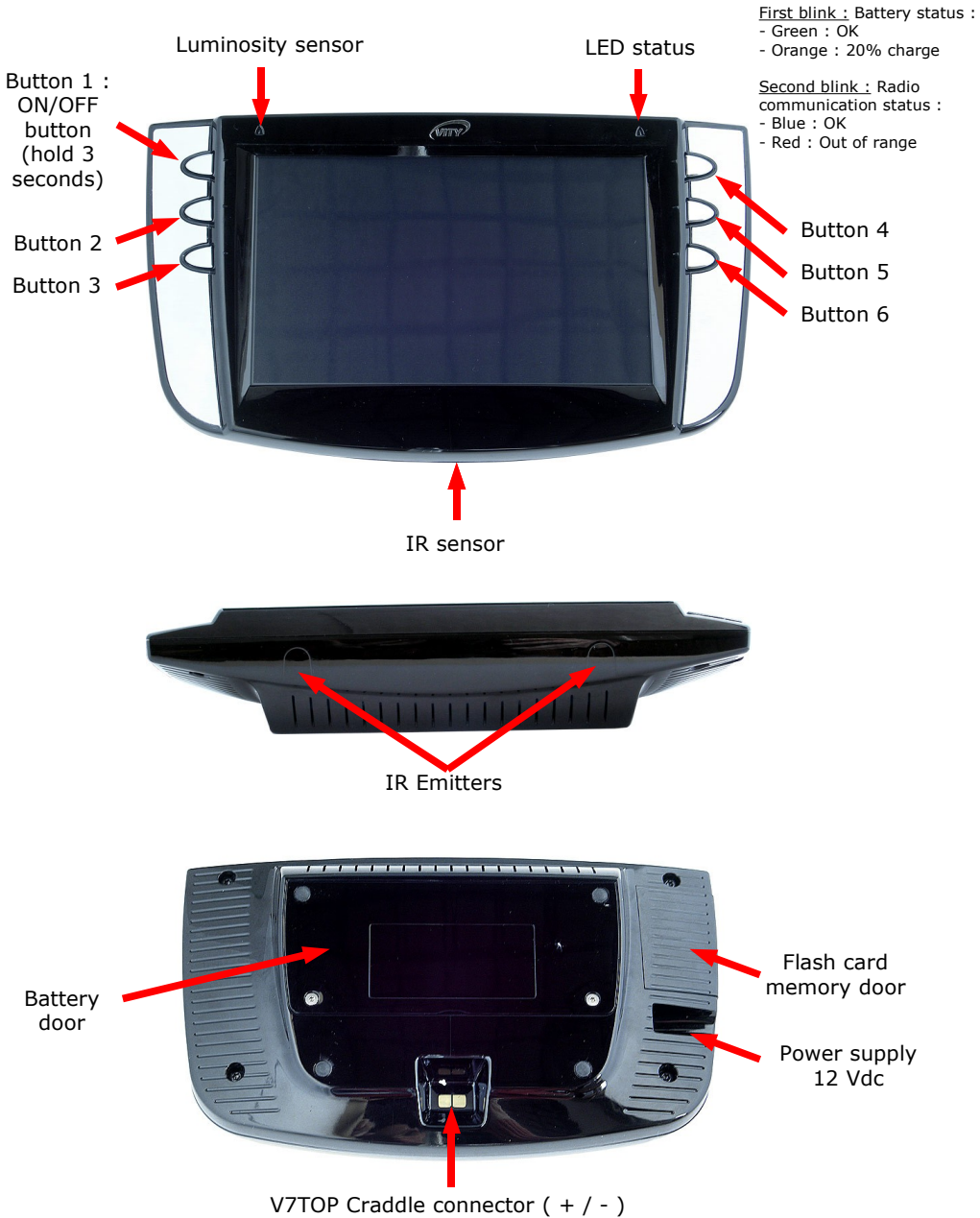


REVISION NUMBER OF THIS MANUAL: VIMATY70ZR\_DLM\_21 12 07\_V\_0001

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# 1 - PRESENTATION



**Cradle : V7TOP :**



Power Supply 12Vdc

**ZigAccess/ST :**



Power Supply 12Vdc

RS232 plug

MediaBus Control connector

## 1.1 - Overview

- VIMATY 70ZR is a wireless Cellular Radio "ZigBee" bidirectional and infra red communication LCD touch panel remote control for home and commercial automation systems applications .
- VIMATY 70ZR represents a convenient remote controller for the management of audiovisual devices and electric systems in the residential and professional market.

## 1.2 - Description of VIMATY 70ZR and ZIG ACCESS/ST

<b>Vimaty 70 ZR</b>	
Screen	7" 16/9 TFT LCD
Touch faceplate	Resistive
Number of colors	65M, 16 bits
Resolution	800 x 480
View angles	100° H, 100°V
Luminosity sensor	High-medium-low
Infrared receiver	IR learning
Number of Infra red codes stored	UP to 127 (IR Frequency 16Khz to 500Khz)
Led Control	Radio Transmission and Battery
Management of date and hours	By perpetual calendar
Communication	Bidirectionnal ZigBee Radio 2,4 Ghz 20 m (more that 100 m with multi access point) Infra Red around 10m
Colors	Black/silver
Temperature	From 0°C to 50°C
Case	Black polycarbonate
<b>BATTERY-POWER SUPPLY</b>	
Battery	8 volts -2A
Consumption	From 240 to 900ma -40mA in Sleeping mode
Power supply /charger	12 Volts DC -4A
<b>DIMENSIONS AND WEIGHT</b>	
Dimensions W x H x D	240x 140x 55 mm
Weight	706 gr
<b>Delivery with : 2A Battery Ref: V7BT2</b>	Flash card memory- External power unit-user manual
<b>SOFTWARE</b>	
Application software	PC2MATY
Storage	Compact Flash

## ZigAccess/ST

Cellular access point for VIMATY70ZR  
 Bidirectionnal radio2,4Ghz ZigBee  
 communication for  
 MBC controlers or RS232 device

**MBC BUS** (Phenix 3 pins connector)  
 Communication speed: 115 200 bps  
 Length: 8bits  
 Parity:one  
 Stop bit:1  
 Connector : 3 pins Detachable phoenix block  
 Adress set by ZigBee Radio transmission

**RS232** (DB9 Femelle )  
 Rx/Tx  
 Serial Speed : Up to 115 200 bps  
 Length : 7 & 8 bits  
 Parity: none,even,odd  
 Bit stop :1,2

Power supply 12 volts DC

### DIMENSIONS AND WEIGHT

Dimensions W x H x D	800 x 480
Weight	87x 73x 30mm
	528 gr

## OPTION

V7TOP Desktop craddle	V7TOP
Dimensions W x H x D	198x 124x 40mm
Weight	528 gr

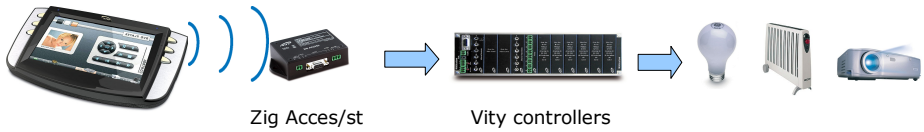
## PACKAGE

VIMATY70ZR/ZA	1 pc VIMATY70ZR + 1pc ZIG ACCESS/ST + 1 pc Battery+ 1pc Flash card +2pcs Power units+ Manual
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## 2 - STANDARDS APPLICATIONS

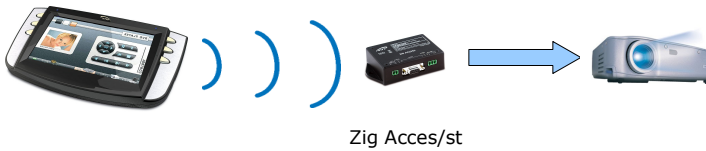
### 2.1 - "MBC Bus" (RS485 Vity) applications

VIMATY70ZR through ZigAccess/ST command Vity controllers (Monopro, Multicustom, Minimono,Maximono and Custo series). By this way, VIMATY70ZR can control many in/out to drive AV and Electric automation devices.



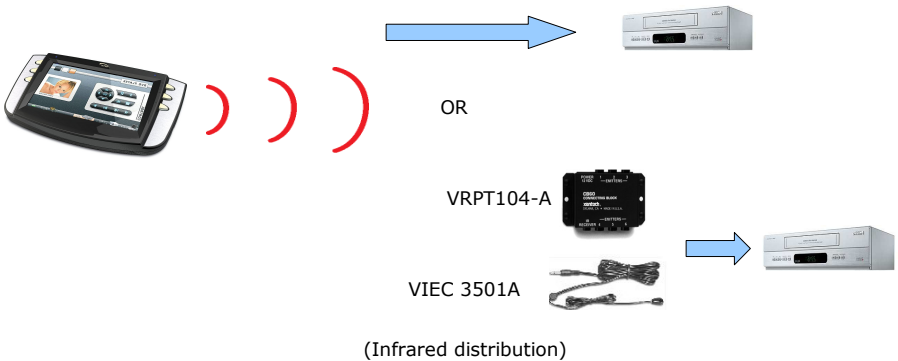
### 2.2 - RS 232 applications

VIMATY 70ZR through ZigAccess/ST that have an RS 232 serial port allows control 1 device in RS 232, like a videoprojector, a matrix switcher, scaler, ...



### 2.3 - Infrared applications

All VIMATY70ZR control one or more devices by infrared directly. If several devices are to be controlled, we recommend the use of a standard infra-red distributor like **VRPT104A**.



## 3 - TECHNICAL DATAS

### 3.1 - Power

- Voltage: 12 V DC
- Consumption

: 200mA to 800ma depend of the intensity backlight

: 800 mA with maximum backlight (without IR output)

: 30 mA in sleeping mode (without backlight )

Can stay 3 days without charging in standard used and sleep mode.

In charge mode 2 amp is need from the the external power charger .

Time charging : 4 hours

Battery: 2 amp / 8 Vdc Ref : **V7BT2**

VIMATY70ZR can be charged directly by the external power unit or through the optional cradle ref : V7TOP

Battery and external power charger (4amp) is delivery with the VIMATY70ZR

### 3.2 - COMMUNICATIONS

- Radio and Infra red (the two transmission can be used in the same time or separatly)
- RADIO: The VIMATY70ZR Remote control used Cellular ZigBee can allowing bidirectional transmission , the cellular function is used through ZigAccess point repeater to free itself from the communication distance (20 meter in standard to 100meter or 1Km with repeaters),the Remote "discuss"with the more closer ZigAccess point .
- The access point ZIG ACCESS/ST is design to be linked to VITY "MBC " Controller Bus through a 3 pin detachable plug or through his RS232 DB9 plug to a device work with this kind of link (Videoprojector, routing switcher...)

NOTE: Only one link can be used in the same time MBC Bus 485 or RS232

- INFRA RED EMITTERS: Two infra red emitter allow to drive directly (10 meters range)any kind of devices used this kind of remote(DVD,TV,Satellite receiver.....)
- INFRA RED RECEIVER : A Infra red receiver allow to learn any kind of infra red code from any kind of remote control from the market (except Air Condition IR remote control) the IR code is download in the central VIMATY70ZR memory.

### 3.3 - Specifications

- At least 200 pages of screen for a 512 Mo CompactFlash.
- Transparency color .
- Real time clock with calendar.
- Automatic and protected OS update.
- The development application files and the Vimaty applications are stored in a CompactFlash . So it is easy to recover the source program to update the application.
- With the application on the CompactFlash, it is easier to change the applications by simply changing the CompactFlash.
- 5 Configurable shortcut keys on push, keep pressed and release for each screen.
- Backlight, standby mode, address and buzzer are defined in the file ini or with setup mode.

## VIMATY 70ZR

- 127 infra-red codes learnable.
- Infra-red database downloadable on our site [www.vity.com](http://www.vity.com).
- Synchronizing screens of the same group is possible.
- The PC2Maty development software is easy to use.
- Buttons animation.

## 4 - FEATURES

### 4.1 - Powering

Powering ON by pressing push button ( fist on the left side ) during 3 seconds , to stop hold the button 3 seconds

When powering, Vimaty is operational. The time of starting (boot) is approximately 1 second.

### 4.2 - The screen

- TFT LCD 7" 16/9 Color screen
- Definition: 800 x 480 pixels.
- 16 bits color definition (65536 colors).
- Dynamic display of variable according to the state of peripherals. (Cursor, gauge, states)
- Buttons animation.

### 4.3 - Touch screen

- The touch screen makes it possible to browse between the various screens of the application.
- Each screen displays control buttons that allow to send commands to the devices connected to the system.
- Each tactile zone can have 3 functions: on push, on keep pressed and on release.

### 4.4 - Assignment of the pushbuttons

5 buttons on the 6 are configurable for each page of screen, the first N°1 is power ON/OFF

- Three functions are possible for each button: on push, on keep pressed and on release.
- Repetition times are configurable for each button.

### 4.5 - Integrated infra-red receiver

- The infrared receiver allows two applications:
  - Learning infra-red codes from any remote control.
- Storage capacity :127 codes.

### 4.6 - Backlight

The screen backlight is adjustable according to the ambient luminosity by the "Setup" the Luminosity sensor adapt the backlight with three level: high-medium-low

### 4.7 - WAKE-UP and SLEEP

Sleep mode is programmable from 0 to 240 seconds.

Wake up is done by pressing on the panel. In sleep mode only the backlight is turned off. Macros, radio communication are still active.

### 4.8 - Date and time

Vimaty manages and can set the date and the hour. The everlasting calendar is implemented for all the dates of the 21<sup>o</sup> century.

**VIMATY 70 ZR Remote control Communicate by radio Zigbee with VITY "MBC" Controllers through the ZIG ACCESS point.**

## **4.9 - ZIG ACCESS/ST MBC Bus (RS485)**

ZIG ACCESS/ST sends and receives datas to VITY "MBC"bus RS485

- Speed : 115200 Bauds.
- Parity : none
- Length : 8 bits
- Bit Stop:1

## **4.10 - ZIG ACCESS/ST RS232 Interface**

- Speed : 115200 Bauds.
- Parity : odd, even, none
- Length : 7 or 8 bits
- Bit Stop:1 , 2

## 5 - WIRING

### 5.1.1 - ZIGACCESS/ST Wiring connection

Several connectors are available on the ZIGACCESS/ST

- One connectors MBC Bus 485 " To link to a "MBC" VITY Controller
  - Connector: Connector block 3 points 0.14mm<sup>2</sup> with 0,5mm<sup>2</sup>. (Gauge 28-20)
  - Enable MediaBus communication which is used to inter-connect all the controllers of the Vity range.
  - Respect bus polarities.
  - The signal located ' 0 ' is not essential for correct operation. However in certain cases, to avoid perturbations, it can be useful to connect the shielding of the cable but **do** that on only one side of the cable.
- The connector "RS 232"
  - Connector: DB9 plug 0.14mm<sup>2</sup> with 0,5mm<sup>2</sup>. (Gauge 28-20)

The connector "12V 300mA"

- Connector: Connector block 2 points 0.14mm<sup>2</sup> with 0,5mm<sup>2</sup>. (Gauge 28-20)
- Connection for the 12V DC and power supply is provided with the device.



## 6 - PROCEDURES

### 6.1 - Setup mode

PC2Maty software generates automatically the screen to configure Vimaty70ZR.

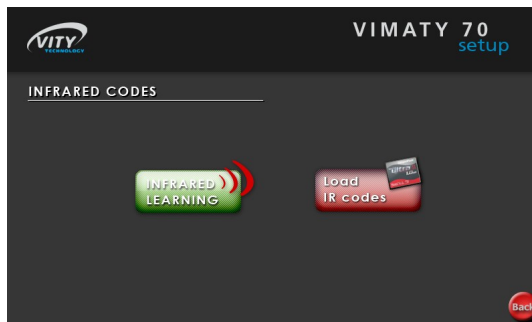
To reach this mode, it is necessary to press a non tactile zone of the screen then on the third left push-button, or just stay pressed a no tactile zone during 4 seconds. The following screen appears:



- Button "INFRARED LEARNING" allows the learning of the infra-red codes used by your application.
- The button "DATE HOURS" allows the setting the Vimaty time.
- Button "SCREEN" allows the adjustment the backlighting screen, the screen cleaning and the calibration.
- Button "BUZZER" activates or deactivates the buzzer.
- Button "ADDRESS" configures the Vimaty address, and updates certain values of Vimaty.
- Button "SLEEP MODE" control the time for backlight extinction.

### 6.2 - « Infrared Learning » button

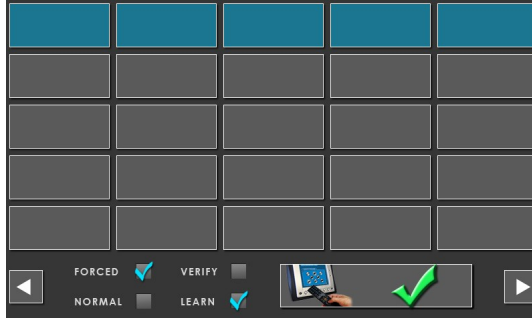
There are two ways to learn IR codes with the Vimaty70ZR : Learning with the integrated infra-red receiver OR Upadte IR code with CompactFlash (generated with IRDump software).



## 6.2.1 - IR learning with the integrated infra-red receiver.

Vimaty can directly learn the infra-red codes from your remote controls. Use preferably the mode of "Normal" learning which is a mode which controls the measurements taken before validating them. This mode is thus more protected than the "Forced" mode that accepts all taken measurements.

- Check the absence of parasitic infra-red sources (fluorescent lights, television, LCD screen)
- Pass in learning mode by using the setup mode. The following screen appears :



- Choose the learning mode with the button "Learn"
- Choose the type of learning with the button "Normal".
- Choose the infra-red code to learn by pressing the button on the touch screen.
- The message "IR learning in progress" appears at the bottom of the screen. The touch screen is not read any more and if you want to leave the learning mode, press one pushbutton of Vimaty. The exit of this mode is automatic if the learning is not successful at the end of 15 seconds.
- Send the infra-red code of your remote control in direction of Vimaty's infrared receiver on the center of the bottom of the Vimaty70ZR (the remote must be between 20 and 50 cm far away of the infrared receiver to allows good infrared learning).
- The buzzer is activated when the code was learned and the message "IR Code Learned" appears in the bottom of the screen.
- In the learning mode, the touch screen is inactive. To force the exit of the learning mode, it is necessary to press one of the buttons.
- If the learning did not function with your remote control, choose the mode "Forced" and starts again the operation. (the forced mode seizes the infra-red data without controls)

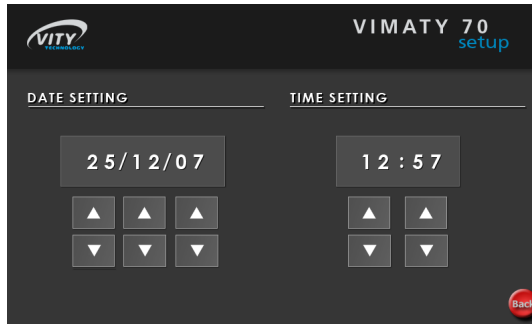
## 6.2.2 - Upadte IR code with CompactFlash

The PC2Maty software associated with the infra-red data base in Ir dump can avoid you the tiresome work of infra-red learning . It is enough for you to declare the type of devices and the function necessary for the infra-red codes and PC2Maty generates automatically during the compilation of your project, an infra-red data file for your application in the CompactFlash.

To update infra-red data on Vimaty, it is necessary to click on the button called "Load IR codes", or touch simultaneously the screen and the push button on the center of the left side of the screen.

## 6.3 - « Date – Hours » button

You can change the date and the time on your Vimaty70ZR. Push the button corresponding to the value you want to change, the modification is immediately effective.

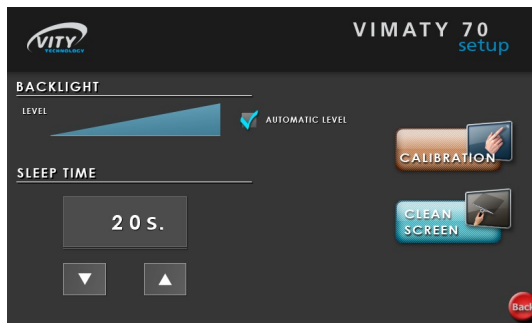


When you set up time the Vimaty, all Vimaty connected to bus RS485/Zigbee are set up.

## 6.4 - « Screen » button

On this page you can update several parameters. These values are defined in the file vimaty.ini are:

- the backlight level.
- The sleep time.
- the state buzzer.
- the Vimaty address.
- the time for backlight extinction.



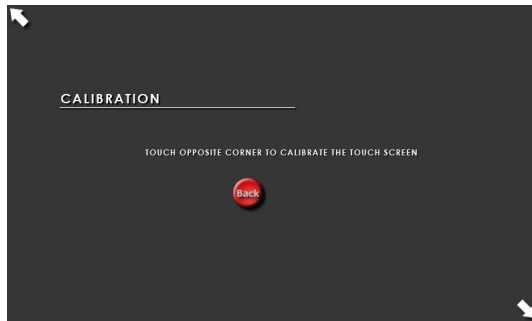
## 6.4.1 - Clean the screen

To clean Vimaty touch panel, without generating actions of the application, you can deactivate the touch faceplate. For this you can click on the corresponding button. The message: « you can clean the screen » appears. After cleaning you can unlock the touch faceplate by pressing one of the five other push buttons.



## 6.4.2 - Calibration

To calibrate the screen, touch first one corner and then the second, as explained on the screen.

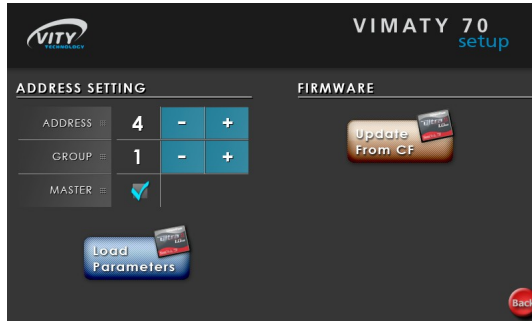


## 6.5 - « Buzzer » button

When you touch the button, the Vimaty switch automatically between « buzzer ON » and « buzzer OFF » mode.

## 6.6 - « Address » button

On this page you can change the address of the Vimaty70ZR on the « MediaBus Control » bus. The group address allows you to define group of Vimatys which will synchronize them together. The Master device is the one which acknowledges the commands on the « MediaBus Control » bus. Only one Vimaty can be set to master on one « MediaBus Control » bus.

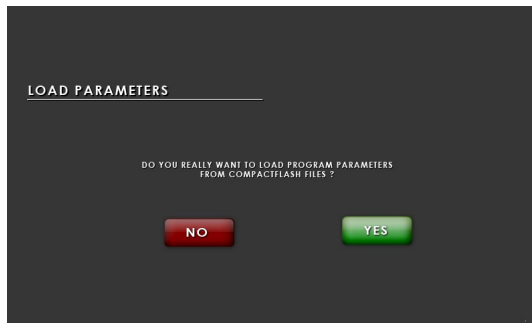


Two other functions are accessible by this screen :

### 6.6.1 - Load parameters from CompactFlash card

These values are defined in the file vimaty.ini are:

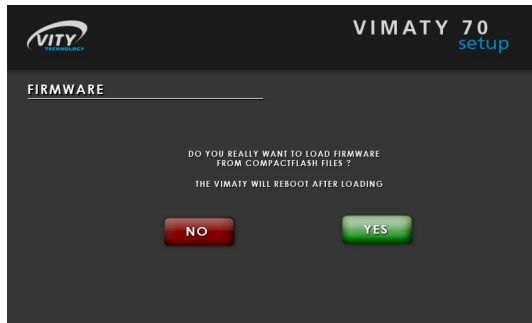
- the backlight level.
- The sleep time.
- the state buzzer.
- the Vimaty address.
- the time for backlight extinction.



### 6.6.2 - Update firmware

- During the generation of your application, PC2Maty software update the last OS setting in the Update repertory. The update file is freely available on our website [www.vity.com](http://www.vity.com). It can be more recent than that proposed by PC2Maty.
- **Important** : Only one update file must be present in the Update repertory.
- When CompactFlash is inserted in Vimaty, the update is automatic if the edition of OS is higher than that already installed on Vimaty.

- The update can be forced if the button at right-hand side is pressed when a CompactFlash is inserted.
- Some OS update integrate BIOS updates. For this reason, take care not to cut the power after the insertion of the CompactFlash.



## 7 - BRANDS COMPATIBLE WITH MEDIA BUS CONTROL AUTOMATION SYSTEM

MEDIA BUS CONTROL automation systems is compatible to drive many brands of the AV manufacturers, lights manufacturers and EIB manufacturers. You will find here a list with main brands, but Media Bus Control can control more systems...

*3M, ABB, Adtec, Akg, AllenHeath, Analogway, Ask, Autopatch, Barco, Behringer, Biamp, Canon, Clipsal, CommTec, DIS, Epson, Extron, Faroudja, Fostex, Gyra, Hager, Imerge, Jung, JVC, Kenwood, Knox, Kodak, Kramer, Legrand, Lexicon, Lightec, Lite Touch, Lutron, Meridian, Merten, Mitsubishi, Nec, Niko, Onkyo, Panasonic, Phillips, Pioneer, Pixelmagics, Proxima, RGB Spectrum, Samsung, Sennheiser, Siemens, Sharp, Sony, Tasca, Theben, Viatec, Vity, Xantech, Yamaha, Zumtobel... and more,*

## **8 - WARRANTY**

### **1- VITY Warranty**

VITY Technology Headquarters, France and its subsidiaries VITY china, VITY USA, warrant their products any defects in materials and workmanship for a period of 2 years from the date of the invoice. This warranty concerns products manufactured by VITY Technology. A return material authorization (RMA) must be obtained from VITY before products are returned for service. This authorization can be obtained on the website of vity : [www.vity.com](http://www.vity.com) and have to be returned by fax to VITY - +33 297 89 20 10. In the case of product is distributed by Vity Technology, the applicable warranty is the warranty of the manufacturer and can be less or more than 2 years. This warranty will be specified on the invoice.

**Warranty of VIMATY 70: 2 years**

### **2- What This Warranty Does Not Cover**

This warranty does not apply to (a) any VITY product that has been modified, altered or repaired by an unauthorized agent or improperly transported, stored, installed, used, or maintained; (b) damage caused by acts of nature, including flood, erosion, or earthquake; (c) damage caused by a sustained low or high voltage situation or by a low or high voltage disturbance, including brownouts, sags, spikes, or power outages; or (d) damage caused by war, vandalism, theft, depletion, or obsolescence.

### **3- Disclaimer of Other Warranties**

The warranties contained in Section 1 are the exclusive warranties given by VITY and supersede any prior, contrary or additional representations, whether oral or written. VITY disclaims and excludes all other warranties – whether express, implied, or statutory.

### **4- Buyer's Exclusive Remedies for Any Nonconformity**

If a VITY product fails to conform to the warranties in Section 1, Buyer must notify VITY within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity, and VITY will repair any nonconforming products or components.

### **5- Application of the warranty**

During the period of warranty, VITY Technology will repair the defective units free. The defective products must be sent to your expenses to the VITY Technology's offices (Caudan). The repaired units will be turned over to our expenses with the recipient. Apart from the period of warranty, VITY Technology will repair the defective units in its offices at Caudan, and the cost of repair will be the responsibility of the customer. In the case of the defected product was bought to a Vity subsidiary or a Vity distributor, you have to return it directly to them.

### **6- Exclusion of Consequential and Incidental Damages.**

Vity shall be not liable under any circumstances for consequential or incidental damages including, but not limited to, labour costs or loss of profits arising in connection with the use of or the inability to use Vity products.

### **7- Transport Damage**

VITY will not be responsible for items damaged during shipment to or from VITY. The shipping carrier is responsible for items damaged during shipment.

### **8- No Modifications**

This warranty may not be modified except in writing by an authorized VITY officer.

### **9- Other Notice**

VITY reserves the right to modify or discontinue designs, specifications, warranties, prices, and policies without prior notice.