www.vity.com

VIMATY 70

VIMATY 70S
VIMATY 70EIB
VIMATY 70S/WALL
VIMATY 70EIB/WALL
VIMATY 70GLS
VIMATY 70EIB/GLS

Desktop series

Wall series

GLS series

User Manual

MEDIA BUS CONTROL

CE
made in france

THANK YOU & CONGRATULATIONS:

Thank you for purchasing the VIMATY 70™ standalone touch panel of VITY Media Bus Control® automation system. VIMATY 70 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

180 rue Pierre Landais, 56850 Caudan, France

WWW.VITY.COM

CE

REVISION NUMBER OF THIS MANUAL: VIMATY70_UM_270906_EN_0004

Index

1 - PRESENTATION

1.1 - Overview

- Vimaty is a wired LCD touch panel for home and commercial automation systems applications.
- Vimaty 70 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 70

SCREEN SPECIFICATIONS	
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
Presence detection	Up to 75 cm
Infrared receiver	For execution or IR learning
Management of date and hours	By perpetual calendar
Communication with connection interface	1 x RJ 45
Colors	Available in 2 versions: White or Black/silver
Video inputs	4 CVBS or 2YC or 1YC + 2 CVBS
Temperature	From 0°C to 50°C
Case	ABS
CONNECTION INTERFACE BOX	
Communication with Vimaty (for Desktop)	1 x RJ45
MBC Bus	1 connector of 3 wires
RS232 (VIMATY 70S)	1 connector of 3 wires (70S, S/WALL, S/GLS)
Infrared Bus	1 output connector of 2 wires
EIB (VIMATY 70 EIB)	1 output of 2 wires (70EIB, EIB/WALL, EIB/GLS)
Logic GPI or Infrared (VIMATY 70S)	1 input connector of 2 wires (70S, 70S/Wall, S/GLS)
Power supply	1 connector of 2 wires
SOFTWARE	
Application software	PC2MATY
Storage	Compact Flash
POWER SUPPLY AND CONSUMPTION	
Power supply	12 volts
Consumption	800 mA – 150 mA in sleeping mode

1.3 - VIMATY 70 versions

1.3.1 - Desktop version

We have 2 different models for desktop version:

Vimaty 70S (with infrared output, RS 232 in/out, MBC Bus in/out, GPI or IR in)

Vimaty 70EIB (with infrared out, EIB in/out, MBC Bus in/out)

All desktop model have a interconnection interface with all in/out

The product includes:

- A desktop VIMATY 70.
- 2 video cables of 2 meters. (enable to connect the video signals, the SVHS being directly connected to the device).
- A power supply 12V.
- An interconnection cable 3 meters.
- A case of interconnection.
- PC2MATY software.
- PC2MATY licence.

1.3.2 - Wall version

We have 4 different models for wall version:

Vimaty WALL

Vimaty GLS

Vimaty 70S/WALL (infrared output, RS 232 in/out, MBC Bus in/out, GPI or IR in)
Vimaty 70EIB/WALL(with infrared out, EIB in/out, MBC Bus in/out)

Vimaty 70S/GLS (infrared output, RS 232 in/out, MBC Bus in/out, GPI or IR in)
Vimaty 70EIB/GLS(with infrared out, EIB in/out, MBC Bus in/out)

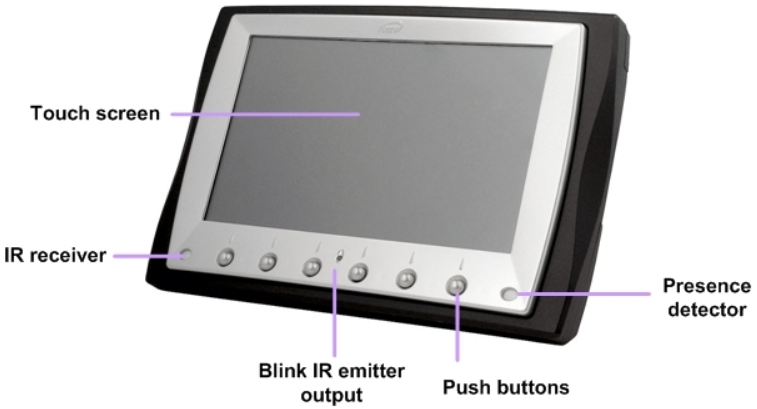
All in-wall models have a interconnection interface inside the case

The product includes:

A Vimaty 70 embedding case equipped with a interconnection card.
2 video cable (S-VHS <-> 2RCA) 0,15 metres.
A power supply 12V.
An interconnection cable 0.1 meters.
A PCToMaty documentation software.
A PCToMaty licence

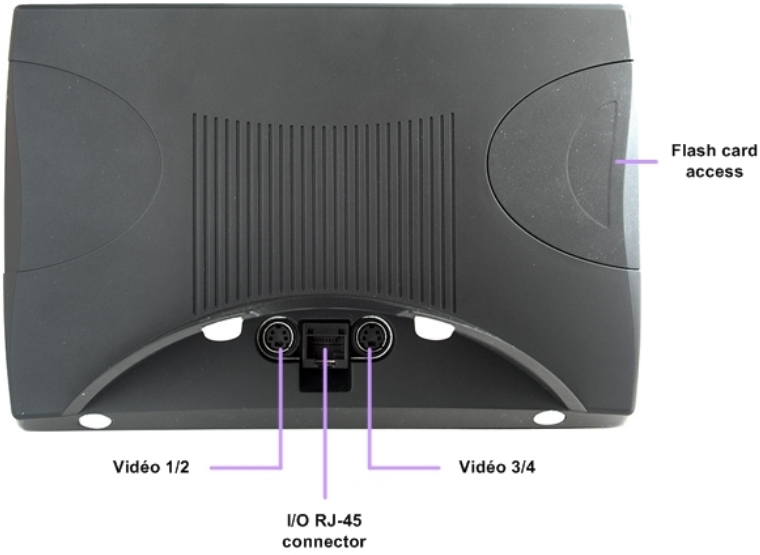
1.3.3 - Front of the VIMATY 70

GLS SERIES

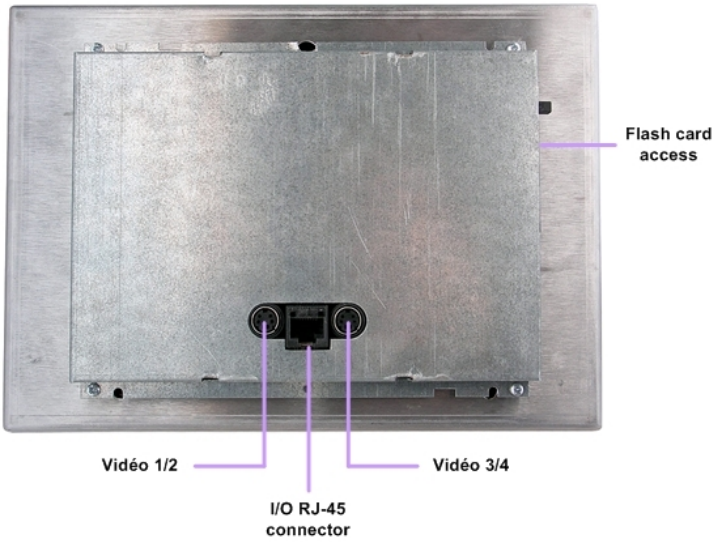


VIMATY 70 desktop and WALL

1.3.4 - Back of the VIMATY 70



VIMATY 70S and VIMATY 70EIB



VIMATY 70S/WALL, EIB/WALL, S/GLS, EIB/GLS

2 - STANDARDS APPLICATIONS

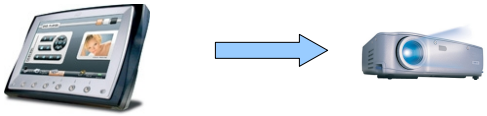
2.1 - Infrared applications

All Vimaty 70 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 Xantech.

Infrared distribution

2.2 - RS 232 applications

Vimaty 70S and Vimaty 70S/WALL have an RS 232 serial port to control 1 device in RS 232, like a videoprojector, a matrix switcher, scaler, ... The Vimaty can send commands and receive a feedback (RS-232 feedback)



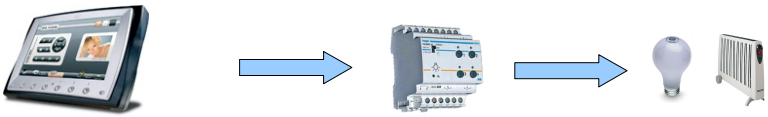
2.3 - MBC Bus (RS485 Vity) applications

All Vimaty 70 have an RS 485 MBC Bus port to command Vity controllers (Monopro, Multicustom, Minimono and Custo series). By this way, Vimaty can control many in/out to drive AV devices and automation devices.

Vity controllers

2.4 - EIB-KNX applications

Vimaty 70EIB and Vimaty 70EIB/WALL have an EIB port to control many EIB modules of any brands of EIB manufacturers. By this Vimaty can control many electric devices like lights, shutters, air-conditionned, heating, ...



EIB module

3 - TECHNICAL DATAS

3.1 - Power

- Voltage: 12 V DC controlled
- Consumption

  : 900mA maxi (with IR output)

  : 800 mA with maximum backlight (without IR output)

  : 220 mA in sleeping mode or without backlight

  : 2 µA in mode without power (function with the internal accumulator for internal real time clock)

3.2 - Specifications

- At least 60 pages of screen for a 32 Mo CompactFlash.
- 4 selectable video input.
- Transparency color .
- Real time clock with calendar.
- Automatic and protected OS update.
- Serial link RS232 configurable. Connection not available on the EIB version.
- 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.
- 6 Configurable shortcut keys on push, keep pressed and release for each screen.
- Backlight, standby mode, adress and buzzer are defined in the file ini or with setup mode.
- A dry contact input type allows to connect an external infra-red receiver. (not available on the EIB version)
- 127 infra-red codes learnable.
- Infra-red database downloadable on our site www.vity.com.
- Recognition of infra-red codes and release of macros associated to the internal receiver or the external receiver.
- Synchronizing screens of the same group is possible.
- The PC2Maty development software is easy to use.
- Buttons animation.

4 - FUNCTIONNALITIES

4.1 - Powering

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

4.2 - The 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 - Video inputs

- You can have access to these inputs at the back of the device on 2 standard SVHS connectors.
- The 2 SVHS connectors can be used as 2 YC video input or as 4 composite video inputs thanks to the 2 provided [SVHS <-> 2 RCA] adaptators cables.
- The size and the position of the video windows are configurable during the developpment of the application. .

4.4 - 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.
- Repetition times are configurable for each button.

4.5 - Assignment of the pushbuttons (does not concern GLS series)

- The six buttons are configurable for each page of screen.
- Three functions are possible for each button: on push, on keep pressed and on release.
- Repetition times are configurable for each button.

4.6 - Integrated infra-red receiver

- The infrared receiver allows two applications:
  - Learning infra-red codes from any remote control.
  - Recognizing IR codes and driving actions defined by the application
- Storage capacity :127 codes.
- The learned codes can be used in three different ways:

- They can be emitted on the infra-red exit of Vimaty (it is necessary to connect infra-red Led on this output)
- They can be recognized any time by the infra-red receiver and start actions defined by the user.
- They can be recognized any time by the external infra-red receiver and start actions defined by the user.

4.7 - Logical input or receiving external IR

It concerns Vimaty 70S, 70S/WALL

A logical input makes it possible to start actions with the change of status.

You can also use this input in second infra-red input. In this case, the IR datas sent on this input are recognized and start actions that can be different with those started by the internal receiver.

This input is not available on the EIB version.

4.8 - Backlight

The screen backlight is adjustable according to the ambient luminosity (see setup)

4.9 - Presence detector

The screen backlight is disabled at the end of an adjustable time.

When a presence is detected, backlight is enabled for one definite duration (see setup)

4.10 - Date and time

Vimaty manages and can set the date and the time. The everlasting calendar is implemented for all the dates of the 21° century.

4.11 - MBC Bus (RS485) Interface

Concerns all the Vimaty 70

Vimaty 70 sends and receives datas by MBC Bus

- Speed: 115200 Bauds
- Length: 8 bits
- parity: none
- stop bit:1

4.12 - Infrared interface

Concerns all Vimaty 70

Vimaty 70 can send commands by infrared bus

This connection enables to plug directly infrared emitters

4.13 - RS232 Interface

Concerns Vimaty 70S and Vimaty 70S/WALL

configurable Interface
Available Baudrates : 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.
Parity : odd, even, none

Length : 7 or 8 bits
Stop bit: 1 or 2

This interface is not available on the EIB-KNX version.

4.14 - EIB interface

Concerns Vimaty 70EIB and Vimaty 70WALL-EIB

Enables the communication on the standard EIB-KNX bus

Can accept 240 addresses of 8 Bit each

Example: KNX device like - Switchers take 1 Bit
- Curtain command take 2 Bits (one UP – one DOWN)
- Dimmer take 8 Bits
- Temperature control take 16 Bits

4.15 - Calendar action by day of the week and hours

A scheduler function in the VIMATY 70 allows you to launch action at chosen days and hours

5 - PROCEDURES

5.1 - Setup mode

PC2Maty software generates automaticaly the screen to configure Vimaty 70.

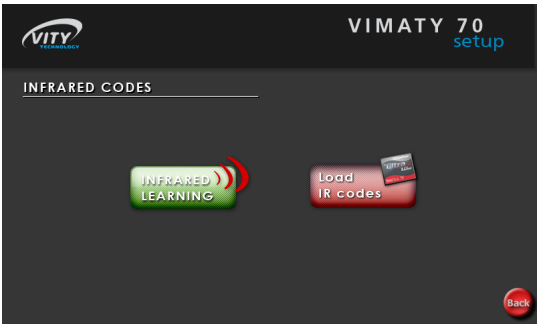
To access to the Setup menu on VIMATY 70 desktop and Wall series, you have to press simultaneously a non-tactile zone of the screen and the first left push-button. For VIMATY GLS series, you have to press only a non-tactile zone of the screen during 4 seconds.

The following menu appears on the screen:

- 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.

5.2 - « Infrared Learning » button

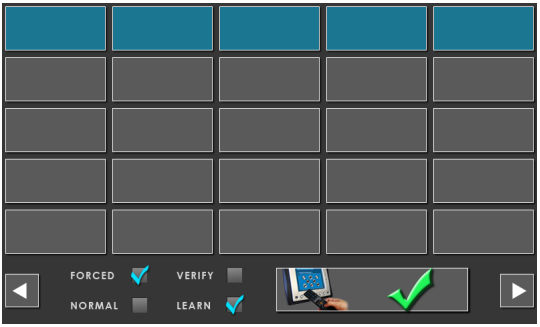
There are two ways to learn IR codes with the Vimaty70 :Learning with the integrated infra-red receiver OR Upadte IR code with CompactFlash (generated with IRDump software).



5.2.1 - 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 pushbuttons 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 Vimaty70(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)

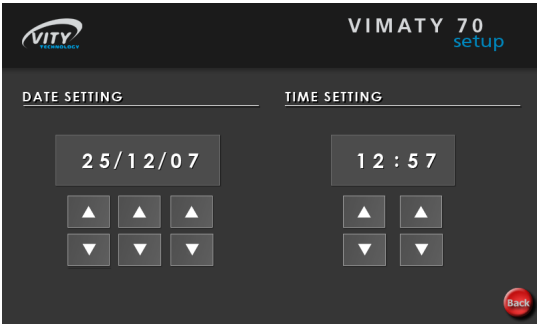
5.2.2 - Upadte IR code with CompactFlash

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.

5.3 - « Date – Hours » button

You can change the date and the time on your Vimaty70. Push the button corresponding to the value you want to change, the modification is immediately effective.

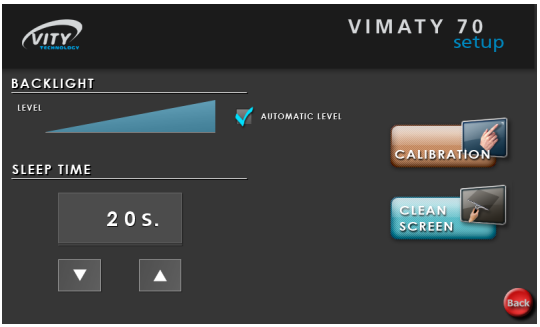


When you set up time the Vimaty, all Vimaty connected to bus RS485 are set up.

5.4 - « Screen » button

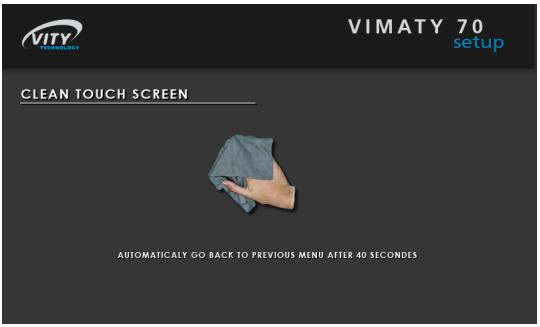
On this page you can update several parameters. These values are defined in the file vimaty.ini are:

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



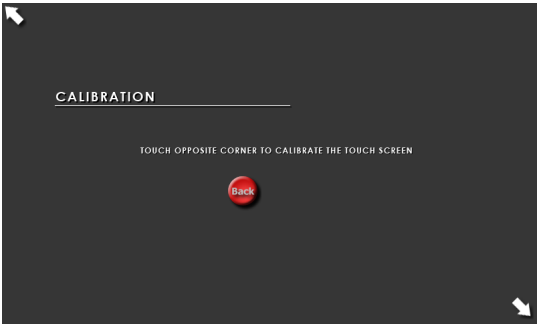
5.4.1 - Clean the screen

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. For the GLS version you have to press the screen during 4 seconds.



5.4.2 - Calibration

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

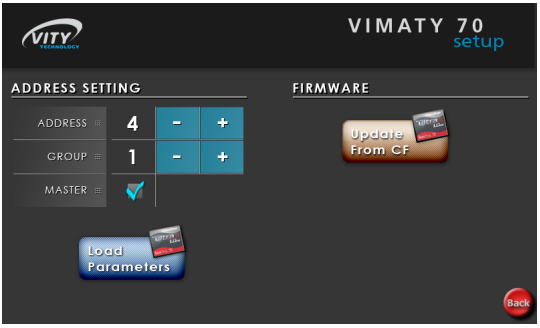


5.5 - « Buzzer » button

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

5.6 - « Address » button

On this page you can change the address of the Vimaty70 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.

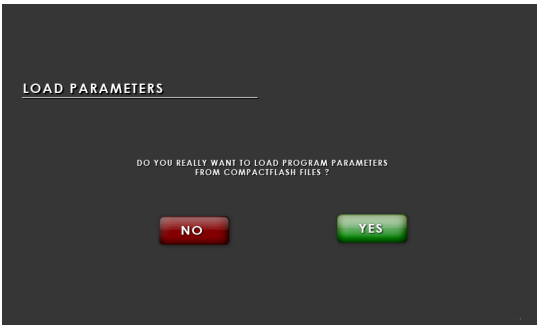


Two other functions are accessible by this screen :

5.6.1 - 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.



5.6.2 - 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. 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.

6 - CABLING AND FIXING

6.1 - Desktop version

6.1.1 - Wiring the interface connection

Several connectors are available on the connexion interface

- One connectors "Bus 485 " (for all VIMATY 70 desktop versions)
  - Connector: Connecting block 3 points 0.14mm² with 0,5mm². (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 pertubations, it can be useful to connect the shielding of the cable but do that on only one side of the cable.

- The connector "To VIMATY " (for all VIMATY 70 desktop versions)
  - Connector RJ45 8 points.
  - The connection of the screen using the cable of 3 meters provided.

- The connector "In LOG " (for VIMATY 70S only)
  - Connector: Connecting block 2 points 0.14mm² with 0,5mm². (Gauge 28-20)
  - Connection for a standard dry contact input which acts on the operation of your application.
  - The connection for an infra-red input which acts on the operation of your application.

- The connector "IR" (for all VIMATY 70 desktop version)
  - Connector: Connecting block 2 points 0.14mm² with 0,5mm². (Gauge 28-20)
  - Connection for an infra-red cell.
  - Respect the polarity of the provided signal.

- The connector "12V 300mA" (for all VIMATY 70 desktop versions)
  - Connector: Connecting block 2 points 0.14mm² with 0,5mm². (Gauge 28-20)
  - Connection for the 12V DC supply provided with the device.

- The connector "RS 232" (for VIMATY 70S only)
  - Connector: Connecting block 3 points 0.14mm² with 0,5mm². (Gauge 28-20)
  - Connection for the 12V DC supply provided with the device.

- The connector "EIB-KNX" (for VIMATY 70EIB only)
  - Connector : connectingblock 2 points 0.14mm² with 0,5mm². (Gauge 28-20)
  - Permit to pilot directly EIB devices.
  - Respect bus polarities.
- Point located "-" on the connector "12V 300mA"

You will find here the different interconnecting bloc versions corresponding to the different VIMATY 70 desktop models:

VIMATY 70S connecting bloc

VIMATY 70EIB connecting bloc

Significant remark:

It should be noted that certain points are connected to the common mass of the device.

- Points located "0" on connectors "Bus 485" (MBC Bus)
- Point located "0" on connectors "Bus 232"
- Point located "-" on the connector "In LOG"
- Point located "-" on the connector "IR OUT"
- Point located "-" on the connector "12V 300mA"
- Point located "-" on the connector "EIB-KNX"

6.1.2 - Touch screen

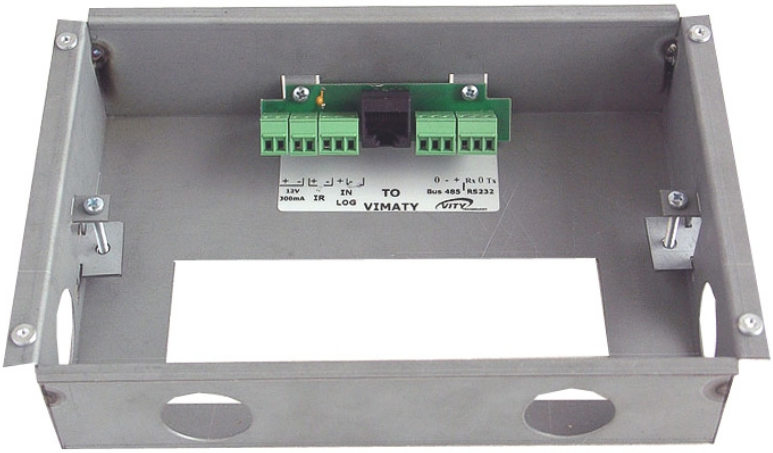
You just have to connect the other end of the cable provided to the connector located under Vimaty

6.2 - Wall version

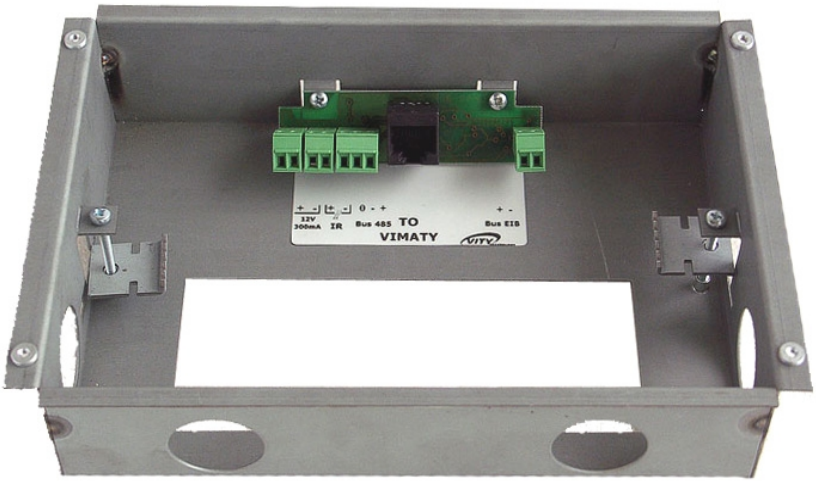
6.2.1 - Wiring of the connecting card

The case of embedding has a interconnection card inside.
The wiring has the same definition that the interface connection (see below)

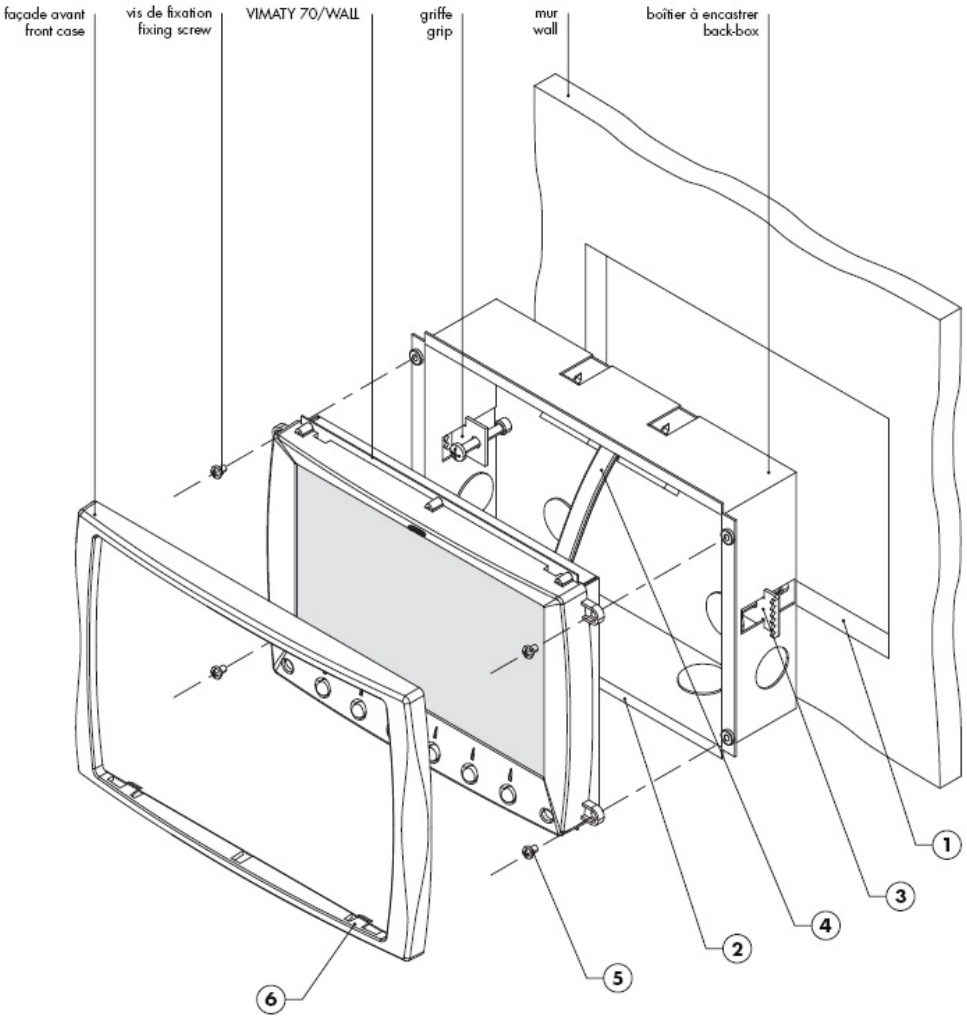
VIMATY 70S/WALL



VIMATY 70EIB/WALL

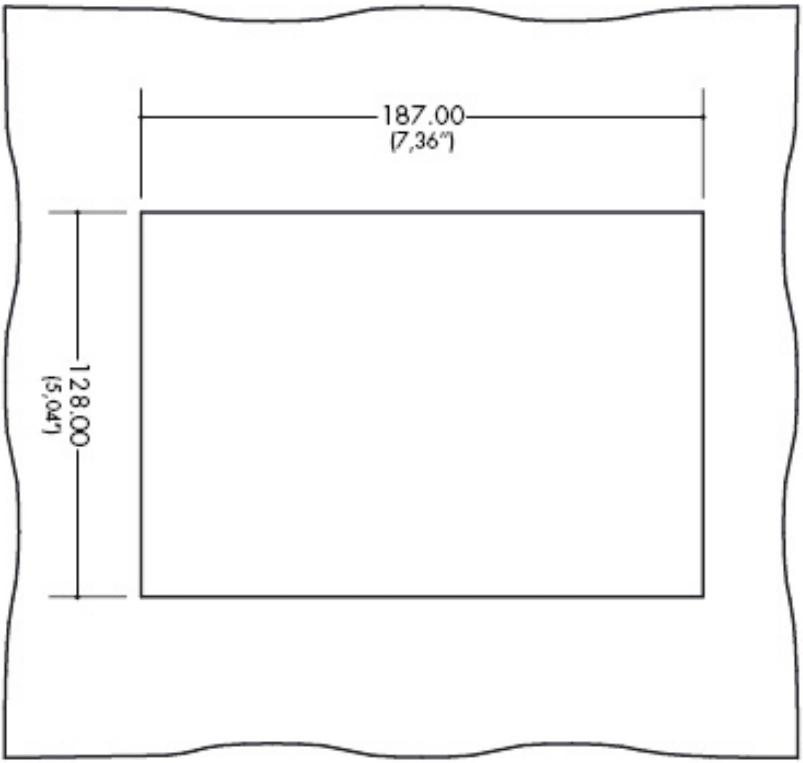


6.2.2 - Assembly of the device



1- Cut out the wall according to the drawing
2- Insert the case to be embedded
3- Use the grip of fixing to block the case
4- Connect the electric cables
5- Fix the Vimaty 70Wall using the 4 provided M4 screws
6- Snap the front case on the Vimaty 70 WALL version

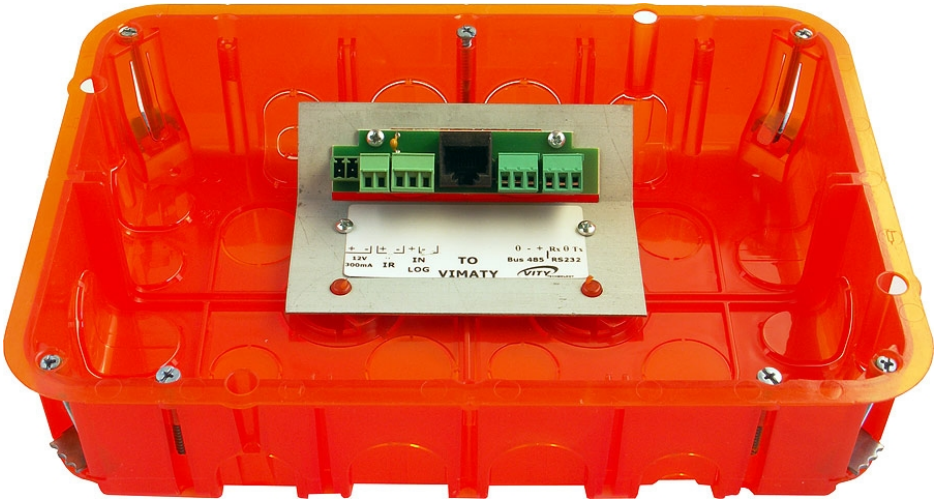
6.2.3 - Wall cut-out of Vimaty 70WALL version



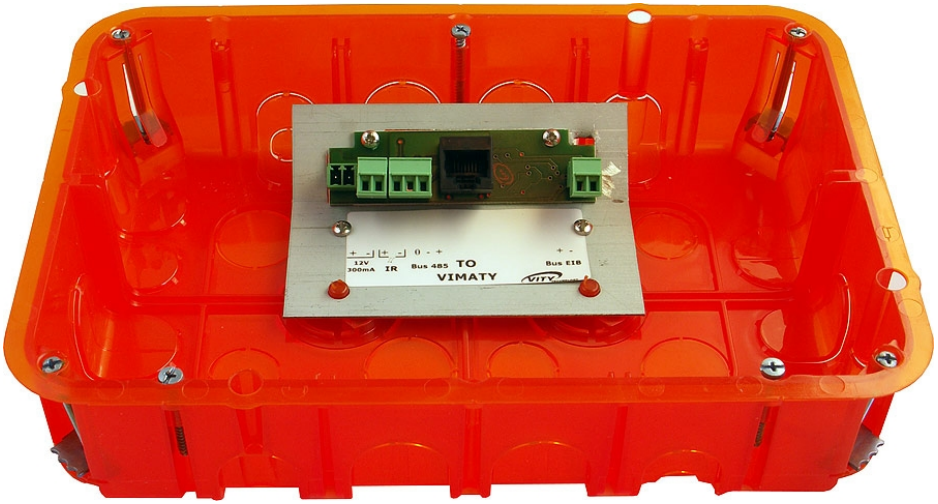
6.3 - GLS version

6.3.1 - Wiring of the connecting card

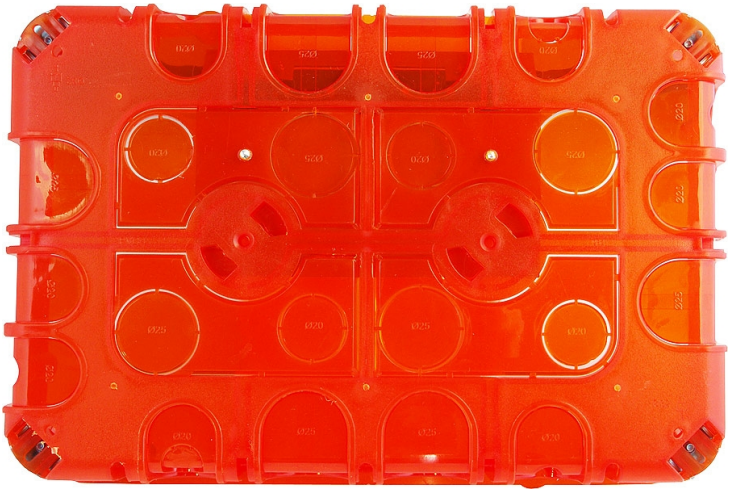
VIMATY 70S/GLS

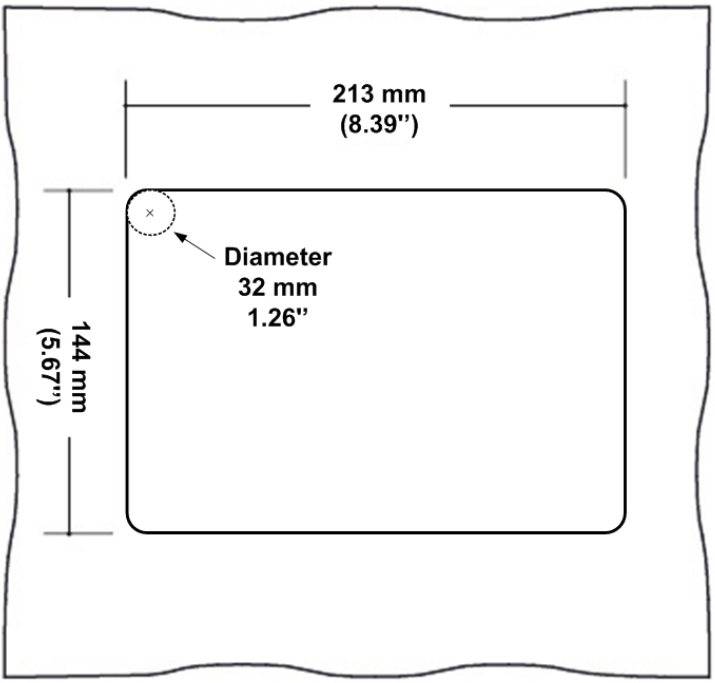


VIMATY 70EIB/GLS



6.3.2 - Wall cut-out of Vimaty 70GLS



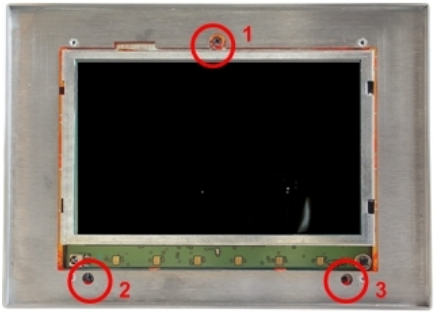


Depth: 52 mm (2,05'')

6.3.3 - How to access to the CF reader of the VIMATY 70GLS

1- Put your finger between the plexiglass and the faceplate

2- Pull-up the plexiglass

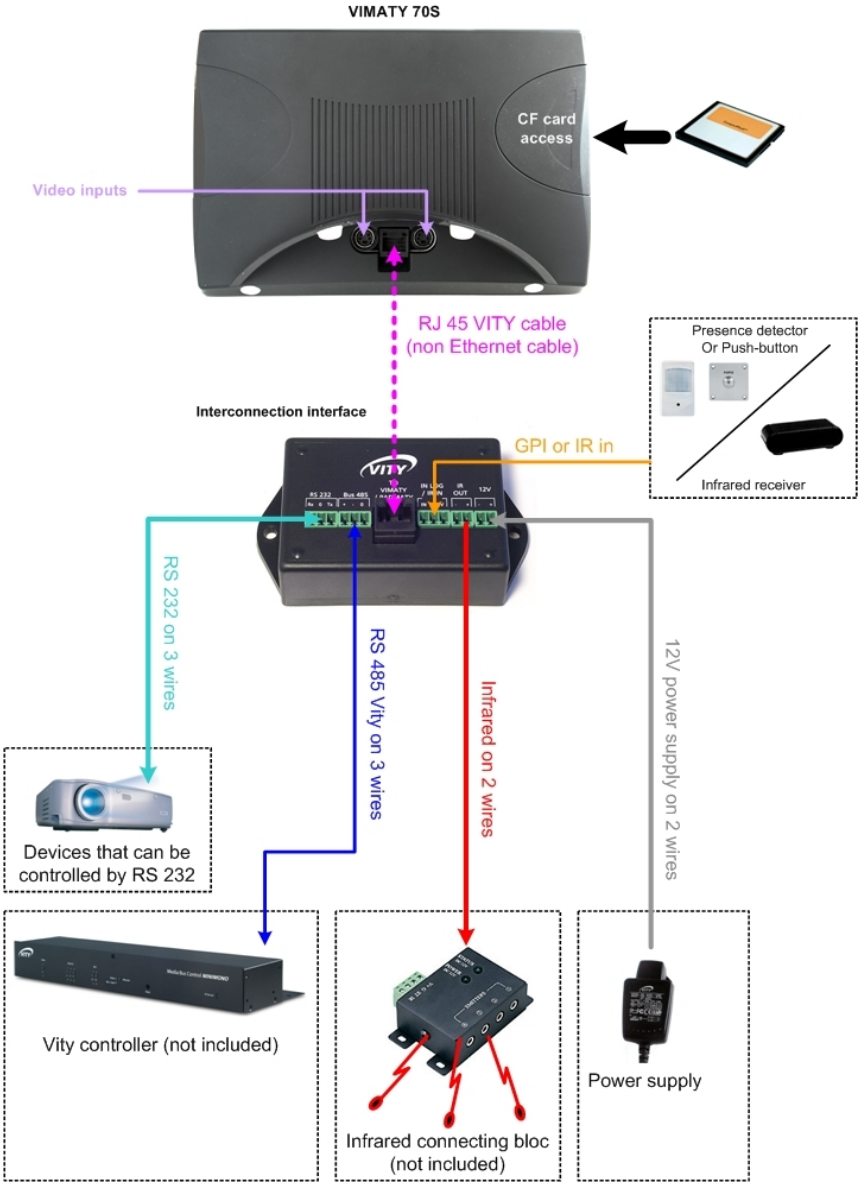


3- Unsrew 1 with a double turn
Unscrew 2 and 3 with a single turn

4- You can access CF reader and back connectors

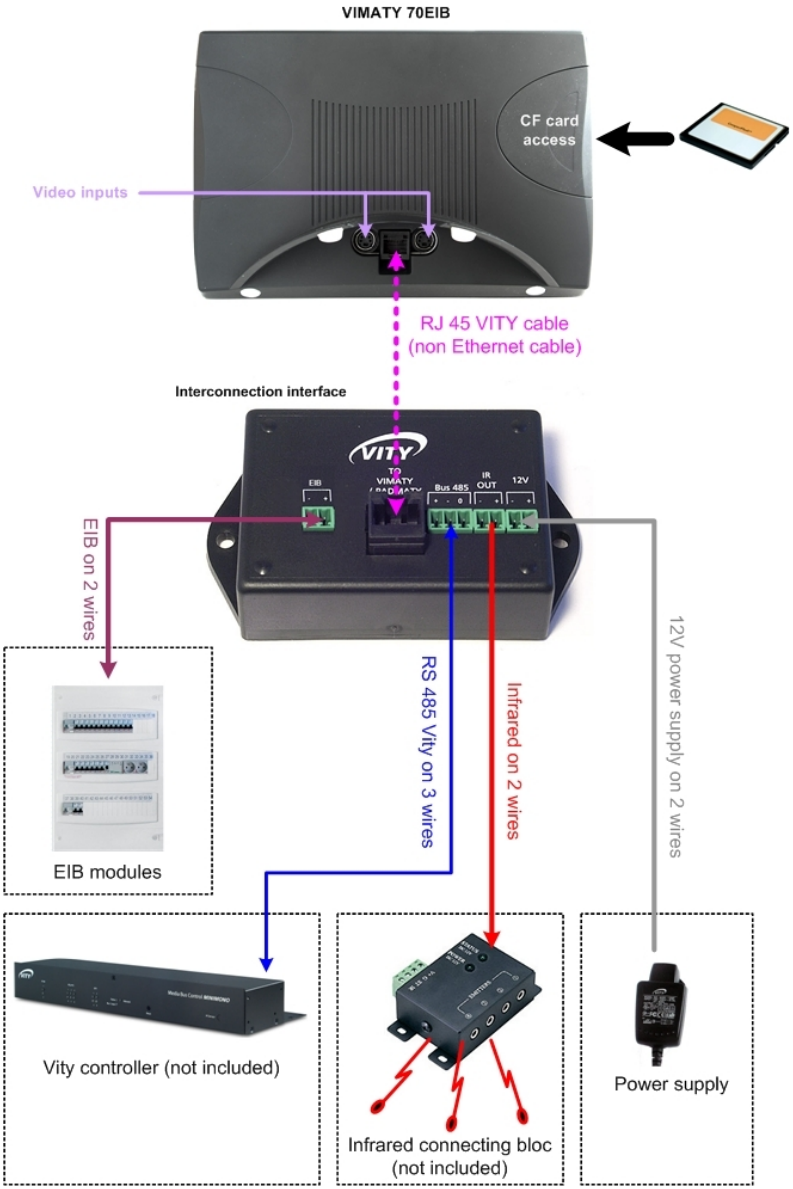
6.4 - Cabling of a VIMATY 70S

(It is the same cabling system for Vimaty 70S/WALL and GLS with the integrated interconnection interface)



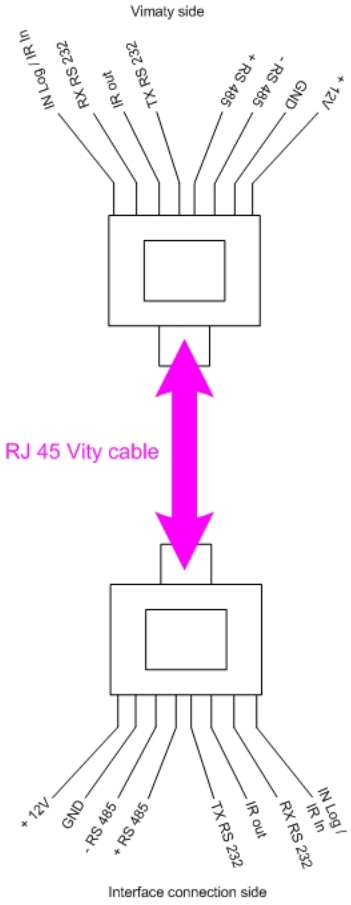
6.5 - Cabling of a VIMATY 70EIB

(It is the same cabling system for Vimaty 70EIB/WALL and GLS with the integrated interconnection interface)



6.6 - Direct cabling with RJ 45 Vity cable (non Ethernet)

If you use VIMATY 70S, you don't need to use interconnection interface. You can directly connect the devices with the RJ 45Vity cable delivered with the Vimaty. Fot the Vimaty 70EIB you have to use the interconnection interface.



Direct cabling for Vimaty 70S

6.7 - Cabling infrared connecting block

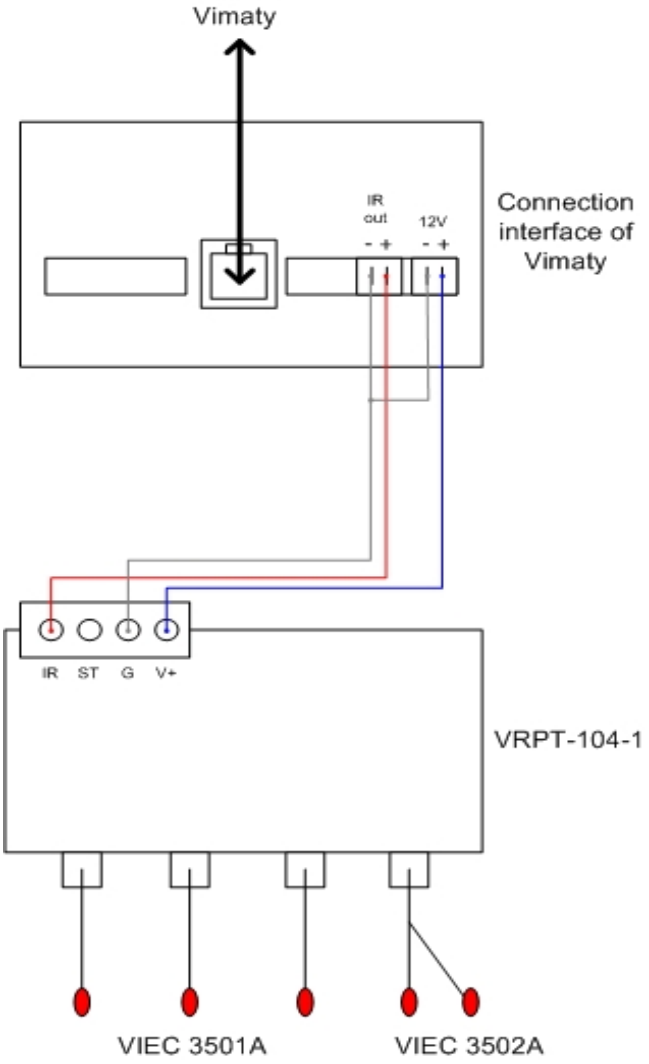
All Vimaty 70 has an infrared output on 2 wires. To dispatch the infrared signal in order to drive devices by infrared, it is recommended to use infrared connecting block with infrared emitters.

We propose in option these products:

VRPT-104-1: infrared connecting blocks with 4 infrared outputs

VIEC 3501A: simple infrared emitter with with signal led

VIEC 3502A: simple infrared emitter with with signal led



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, Kenwwod, 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, Vigatec, 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 obtain on the website of vity : 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 (all versions): 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.