



# HOME & BUILDING



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## PUT MORE CONTROL IN YOUR HANDS

Making processes simple, safe and more productive.

Mission statement: ESA stands alone by **expanding capacity through control by** offering more information to increase interaction.

Working with **ESA means looking to the future**, sharing a philosophy of constant growth. The critical technical resource is a highly specialized workforce whose skills, intuition and creativity are expressed in a labour of continuous research and experimentation.

ESA products are the result of an avant-garde system of production designed to **make Quality a cutting edge solution reality**.

Established in 1975, **ESA elettronica** is a **multi-national company with 35 years experience** in the Industrial Automation field. Our goal has always been to give the best solutions for control and interaction with the industrial process. We design the products focusing on "human" as the key to Human Machine Interface.

**ESA** has its headquarters in Italy with strategically located **worldwide branches** in all major countries to **cover the widest market range**. **With over 40 distributors**, ESA provides conscientious customer service to our international clients.

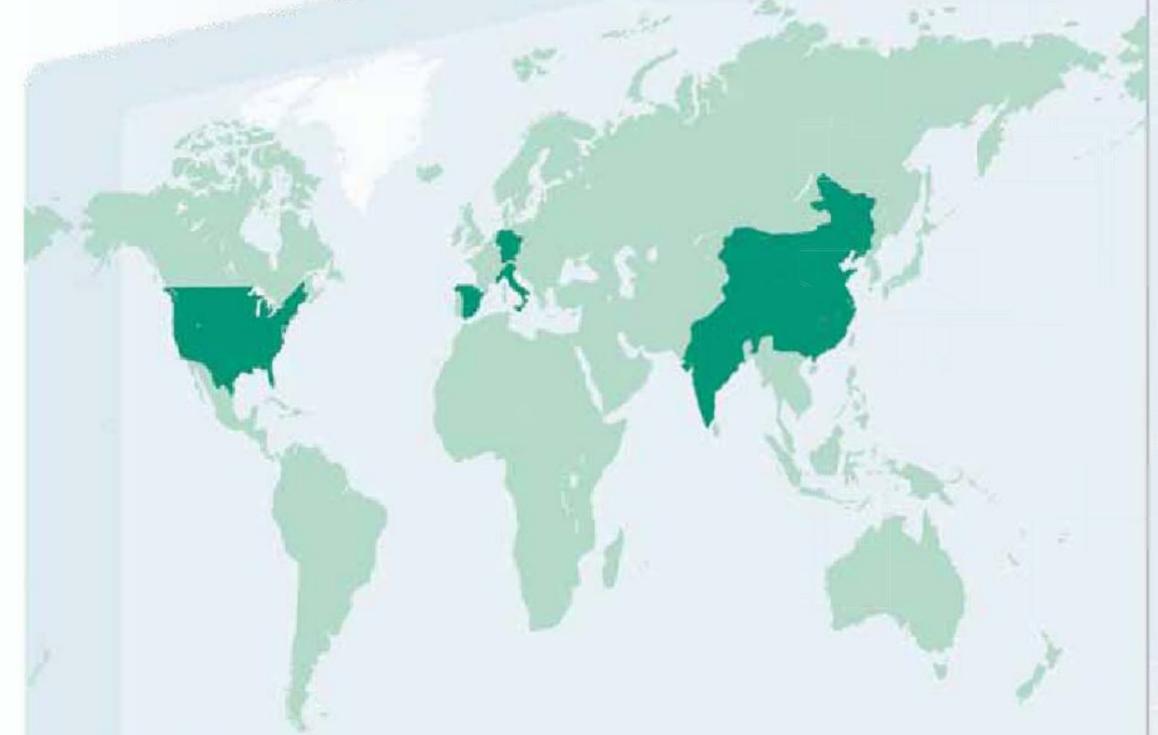
Our international experience combined with our drive to constantly stay on the cutting edge of technology has allowed us to gain valuable experience and know-how in the human interface field. This allows **ESA** to **offer a wide gamma of products** to **meet any need along with reliable after-sales service**.

Advanced technology and the power of industrial automation meets Italian design resulting in easy to use products for everyday life.

### Introducing VISUALYSER

 Subsidiaries  
 Distributors

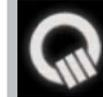
-  ESA Elettronica S.p.A.
-  ESA Europa S.L.U.
-  ESA Elettronica GmbH
-  ESA Technology, Inc
-  ESA Electronic Technology (Shanghai) Co. Ltd
-  ESA Soft. & Autom. India Pvt. Ltd.





**A profile based on the entrepreneurial spirit of 'always improving'.**

- 1975:** Originally called Tecno System, founded by 4 partners with steady growth each year in electrical equipment production
- 1985:** Recognized the future in Electronic Interface systems. Fifth partner joins and **ESA elettronica** is established to develop customized electronic machine interfaces, running parallel with Tecno System
- 1990:** ESA elettronica launches its first full line of Human Machine Interface (HMI) products, moving away from commission based production and towards products that meet the demands and requirements of the market
- 1991:** ESA elettronica and Tecno System combine and become ESA Elettronica S.r.l. This new entity introduces **a new concept in HMI: the universal operator terminal**
- 1992:** ESA goes global setting up a **world-wide sales networks**
- 1994:** ESA becomes **ISO 9001** certified
- 1996:** ESA becomes a joint stock company
- 1997:** A subsidiary is opened in **Spain**
- 1998:** A subsidiary is opened in **Germany**
- 2000:** Representative office opened in **India**
- 2003:** ESA Elettronica expands to the **North-American** market by acquiring EASON Technology, a US company working in the same field
- 2004:** Representative office opened in **China**
- 2006:** Inauguration of **ESA Software and automation India Pvt Ltd.**
- 2007:** ESA diversifies into the building automation market and introduces a comprehensive family of VISUALYSER together with a complete gamma of designer frames "made in Italy"
- 2008:** **ESA Electronic Technology (Shanghai) Co. Ltd.** branch opened in China (PRC)



**Quality and safety our priorities at ESA Elettronica.** In 1994, we were among the **first Italian electro-technical companies to be certified ISO 9001:1994** and then diligently renewed to ISO 9001:2000 (Vision2000).

Attention to quality is an integral part of our company culture. We are dedicated to the pursuit of **constant improvement in our products:** this is a guarantee to our clients who always receive the most up-to-date and highest quality product available in the market.

**Service**

- **close relationship with suppliers** in which we control production procedure and product quality every step of the way
- **strict internal control of all production phases** in all of our departments with an eye on quality along with tight controls on our organizational procedures with the goal of efficiency leading to customer satisfaction
- **punctual delivery**
- **use of CRM system** for **better client support** and **constant updates** through newsletters
- **expert after-sales service** included providing complete support to the client

**Satisfied Customer**

The needs of the customer condition every aspect of the production cycle

**State of the art technology**

Allow the customer to interface with the most advanced technological solutions available



**Cost consciousness**

Value-for-money products at every level

**On-going collaboration**

We work with you to define the solution and then apply it, giving high priority to training and post-sales customer care





**Visualyser** allows you to have an immediate and easy to understand **visual representation of what's going in every room** in your home: both indoor and outdoor spaces such as your garden. This easy-to-use product utilizes **advanced technology to translate the complicated everyday processes** going on in your home to a **clear and simple output on your screen**, simplifying and adding security and comfort to your life.

Visualyser is designed to **put more control at your service** by allowing you to see what is happening in your home without taking the place of the existing systems. We decided to put the touch screen into your wall because our goal was to create a **system that becomes part of your home, improving your quality of life.**

**Designed with powerful features and advanced technology yet, still easy to use**, this allows Visualyser to be **easily adaptable** to public buildings, hotels, hospitals and large, complex infrastructures in general.

**Visualyser is your right-hand man**, always ready to meet all of your needs. Silently in the background, it is just waiting to be told to turn off your lights, turn on the sprinklers in your garden at a certain time or you can do it manually and it will show you what's going on in your home without interfering. **You're in control.**

**Focus on design in the language of interface:**

- **Realistic**, a personal vision for each room represented in "photo-realistic" mode
- **Iconic**, fantasy images based on domestic icons and daily life scenes in art.



Visualyser touch screen panels allow you to **experience the powerful of home automation** in a completely easy way. Everything has been studied to **simplify the installation process**, using standard and world-wide available wall boxes and **interchangeable plate frames** with magnetic hooking.



**Standard wall box**  
available world-wide



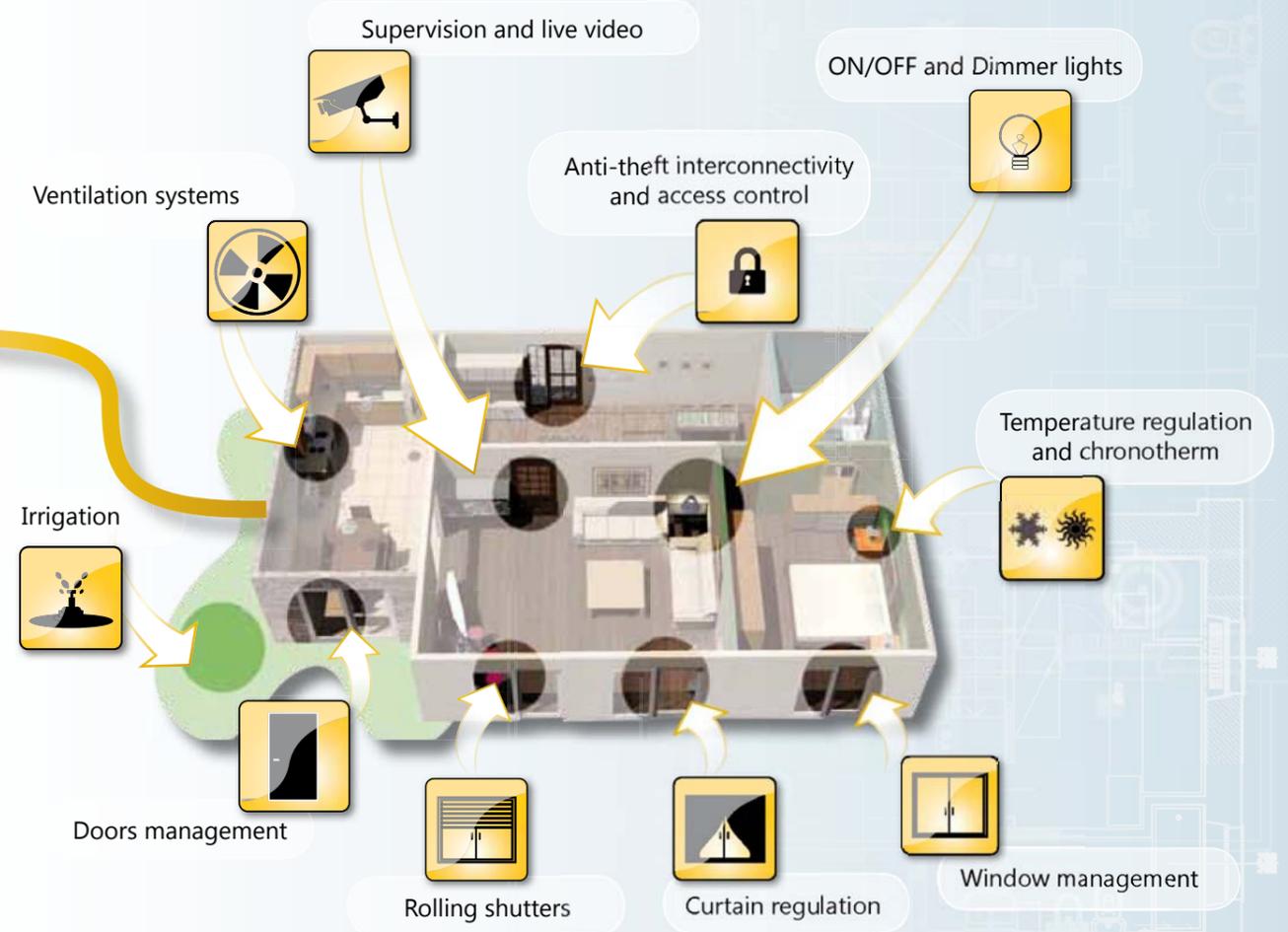
**All-in-one Touch Screen Panel**  
highly resistant and stress-proof

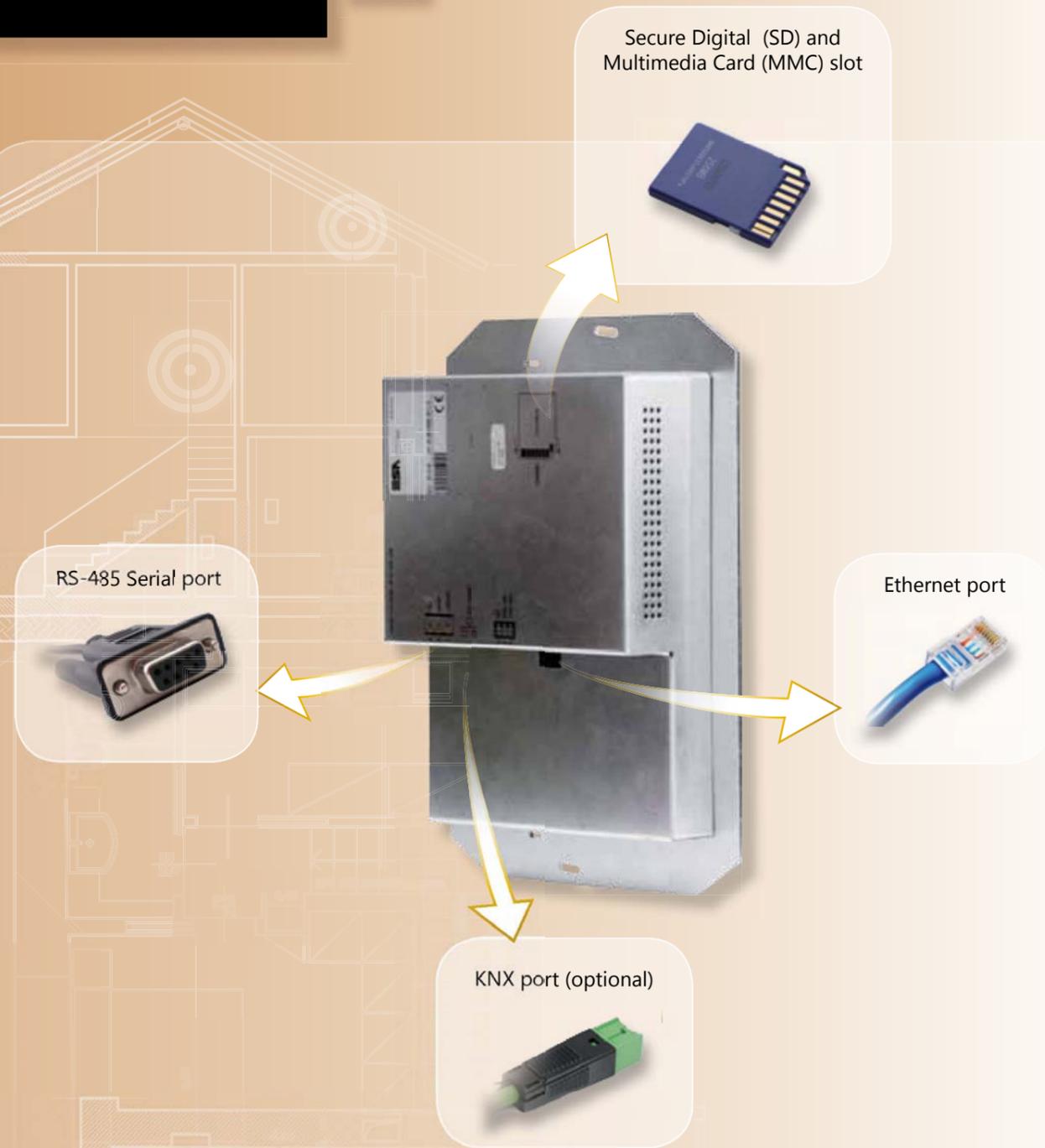


**Interchangeable plate frames**  
available in four different styles



- Send events and alarm notifications by Email and SMS**
- Easy to **manage users and groups**
- Integrated **alarm management**
- One-click scenario** execution
- Weekly and daily schedule** and advanced **holiday management**





**Reliability beyond compare**, user-friendliness and **extreme mechanical strength**.

Visualyser touch screen panels offer **high performances**, excellent graphical quality and **incomparable connectivity** in a totally-safe **Fanless and Diskless** environment.





	<b>YT4G</b>	<b>YT4T</b>	<b>YT5T</b>	<b>YT7T</b>	<b>YTAT</b>
<b>Display</b>					
Type	Graphic LCD TFT	Graphic LCD TFT	Graphic LCD TFT	Graphic LCD TFT	Graphic LCD TFT
Colors/levels	32 gray levels	65.536 colors	65.536 colors	65.536 colors	65.536 colors
Size	4,3" (widescreen)	4,3" (widescreen)	5,7"	7,5"	10,4"
Touch screen	Analog	Analog	Analog	Analog	Analog
Resolution (landscape)	480 x 272	480 x 272	320 x 240	640 x 480	640 x 480
Brightness	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	380 cd/m <sup>2</sup>
Backlight	White LED	White LED	White LED	CCFL	CCFL
<b>System</b>					
Runtime	Polymath EZbuilder / MyVision	Polymath EZbuilder / MyVision	Polymath EZbuilder / MyVision	Polymath EZbuilder / MyVision	Polymath EZbuilder / MyVision
RAM	64 MB	64 MB	64 MB	64 MB	64 MB
Flash memory	32 MB	32 MB	32 MB	32 MB	32 MB
CPU type	Intel PXA270	Intel PXA270	Intel PXA270	Intel PXA270	Intel PXA270
CPU clock	312MHz	312MHz	520MHz	520MHz	520MHz
<b>Interfaces</b>					
First integrated port	RS-485	RS-485	RS-485	RS-485	RS-485
Second integrated port	KNX (optional)	KNX (optional)	KNX (optional)	KNX (optional)	KNX (optional)
USB Host port	USB Host 1.1	USB Host 1.1	USB Host 1.1 (frontal)	USB Host 1.1 (frontal)	USB Host 1.1 (frontal)
USB Device port	-	-	USB Device 1.1 (frontal)	USB Device 1.1 (frontal)	USB Device 1.1 (frontal)
Slot CardBus	-	-	SD/MMC	SD/MMC	SD/MMC
Network	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit
<b>Dimensions</b>					
External (mm) (W x H x D)	180 x 140 x 35 (D=54 with KNX)	180 x 140 x 35 (D=54 with KNX)	222 x 163 x 60	290 x 196 x 65	314 x 294 x 64
<b>Technical data</b>					
Power supply	18...32 Vcc	18...32 Vcc	18...32 Vcc	18...32 Vcc	18...32 Vcc
Consumption (24 Vcc)	~ 7 W	~ 7 W	~ 7 W	~ 10 W	~ 13 W
Protection level (with cover)	IP 40 (frontal)	IP 40 (frontal)	IP 40 (frontal)	IP 40 (frontal)	IP 40 (frontal)
Operating temperature	0...+50 °C	0...+50 °C	0...+50 °C	0...+50 °C	0...+50 °C
Storage temperature	-20...+65°C	-20...+65°C	-20...+65°C	-20...+65°C	-20...+65°C
Humidity (non condensing)	85%	85%	85%	85%	85%
Certifications	CE, cULus	CE, cULus	CE, cULus	CE, cULus	CE, cULus
<b>Wall box</b>					
Dimensions (mm) (W x H x D)	160 x 130 x 70	160 x 130 x 70	216 x 168 x 73	267 x 205 x 72	318 x 288 x 73
<b>Product codes</b>					
VISUALYSER (standard configuration)	<b>YT4G1010</b>	<b>YT4T1010</b>	<b>YT5T1010</b>	<b>YT7T1010</b>	<b>YTAT1010</b>
VISUALYSER with Konnex port	<b>YT4G1210</b>	<b>YT4T1210</b>	<b>YT5T1210</b>	<b>YT7T1210</b>	<b>YTAT1210</b>
Wall box	YB400	YB400	YB500	YB700	YBA00

Secure Digital (SD) and  
Multimedia Card (MMC) slot



USB (Device) port



Windows CE 5.0 Professional  
with Internet Explorer

RS-485 Serial port



Ethernet port



Run **your embedded applications in a safe environment**, having all the power of Windows CE® 5.0 Professional. Visualyser Open touch screen panels **support web-based solutions** thanks to the Internet Explorer on-board, as well as **proprietary applications or dedicated systems for data acquisition.**

USB (Host) port

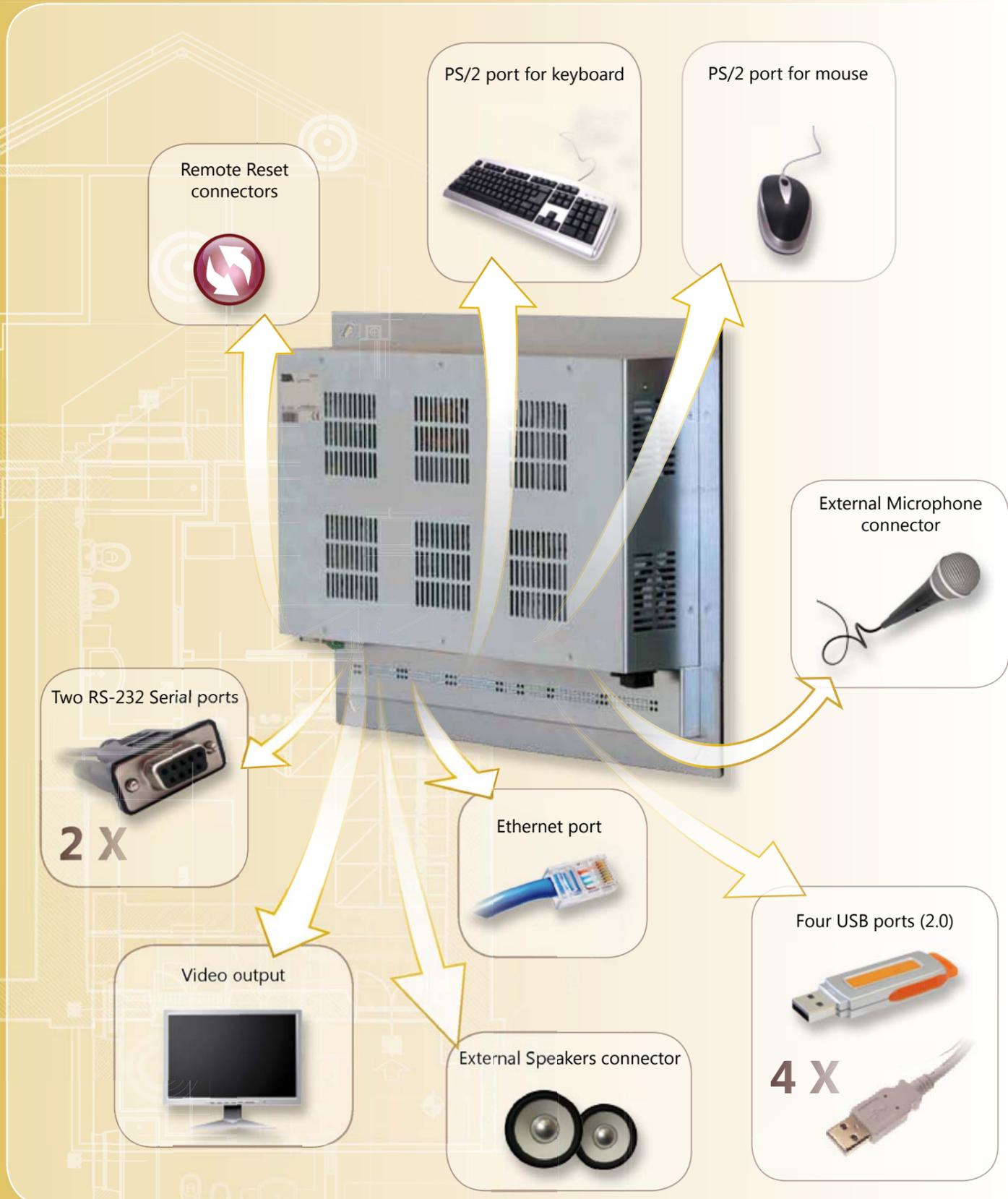


Reset button





	YP4T	YP5T	YP7T	YPAT
<b>Display</b>				
Type	Graphic LCD TFT	Graphic LCD TFT	Graphic LCD TFT	Graphic LCD TFT
Colors/levels	65.536 colors	65.536 colors	65.536 colors	65.536 colors
Size	4,3" (widescreen)	5,7"	7,5"	10,4"
Touch screen	Analog	Analog	Analog	Analog
Resolution (landscape)	480 x 272	320 x 240	640 x 480	640 x 480
Brightness	500 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	380 cd/m <sup>2</sup>
Backlight	White LED	White LED	CCFL	CCFL
<b>System</b>				
Operating System	Microsoft® Windows® CE 5.0 Professional			
RAM	64 MB	64 MB	64 MB	64 MB
Flash memory	32 MB	32 MB	32 MB	32 MB
CPU type	Intel PXA270	Intel PXA270	Intel PXA270	Intel PXA270
CPU clock	312MHz	520MHz	520MHz	520MHz
<b>Interfaces</b>				
Integrated port	RS-485	RS-485	RS-485	RS-485
USB Host port	USB Host 1.1	USB Host 1.1 (frontal)	USB Host 1.1 (frontal)	USB Host 1.1 (frontal)
USB Device port	-	USB Device 1.1 (frontal)	USB Device 1.1 (frontal)	USB Device 1.1 (frontal)
Slot CardBus	-	SD/MMC	SD/MMC	SD/MMC
Network	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit	Ethernet 10/100 Mbit
<b>Dimensions</b>				
External (mm) (W x H x D)	180 x 140 x 35	222 x 163 x 60	290 x 196 x 65	314 x 294 x 64
<b>Technical data</b>				
Power supply	18...32 Vcc	18...32 Vcc	18...32 Vcc	18...32 Vcc
Consumption (24 Vcc)	~ 7 W	~ 7 W	~ 10 W	~ 13 W
Protection level (with cover)	IP 40 (frontal)	IP 40 (frontal)	IP 40 (frontal)	IP 40 (frontal)
Operating temperature	0...+50 °C	0...+50 °C	0...+50 °C	0...+50 °C
Storage temperature	-20...+65°C	-20...+65°C	-20...+65°C	-20...+65°C
Humidity (non condensing)	85%	85%	85%	85%
Certifications	CE, cULus	CE, cULus	CE, cULus	CE, cULus
<b>Wall box</b>				
Dimensions (mm) (W x H x D)	160 x 130 x 70	216 x 168 x 73	267 x 205 x 72	318 x 288 x 73
<b>Product codes</b>				
VISUALYSER Open	<b>YP4T1010</b>	<b>YP5T1010</b>	<b>YP7T1010</b>	<b>YPAT1010</b>
Wall box	YB400	YB500	YB700	YBA00



Display	YXD
Dimension	15"
Technology	TFT
Colors	262.000
Touch screen	Analogic (5 wires)
Backlight	CCFL (2 lamps)
Lamp life (min hours at 25°C)	50.000
Resolution	1024 x 768
Brightness	350 cd/m <sup>2</sup>
Contrast	700:1
Vision angle	140 horizontal / 125 vertical
Processor	
CPU	Intel® Celeron M - 1GHz FANLESS
System memory	
RAM	512 MB - 1 GB
Flash array (Compact flash)	1 GB - 2 GB
Disk Drive	
Hard disk	160 GB Serial ATA
Solid State Disk (SSD)	8 GB Serial ATA
Interfaces	
Serial port	2 x RS232
USB port	5 x 2.0 (one frontal)
PS/2 keyboard port	1
PS/2 mouse port	1
VGA port for external monitor	1
Audio ports	Integrated Stereo Speakers and Microphone MIC-IN and LINE-OUT connectors
Networks	
Ethernet	Ethernet 10/100 Mbit
Dimensions	
External (mm) (W x H x D)	452 x 342 x 76
Clock	
Supercapacitor Hardware Clock	With battery
Technical specifications	
Power supply	18...30 Vcc
Consumption (24 Vcc)	max 70 W
Protection level (with cover)	IP 40 frontal
Operating temperature (°C)	0...+50
Storage/transport temperat. (°C)	-20...+65
Humidity (non condensing)	85%
Weight (kg)	~ 7
Certifications	CE, cULus (in progress)
Wall box	
Dimensions (mm) (W x H x D)	433 x 332 x 80
Wall box product code	YBD00



### Hardware configuration

Y X D T 0 1 - - 0 4 0

RAM
1: 512 MB DDR2 DIMM
2: 1 GB DDR2 DIMM

Storage drive
2: 1 GB Compact Flash
3: 2 GB Compact Flash
S: 8 GB Solid State Disk
H: 160 GB Hard Disk

### Operating system

XSSYSWINXPEN03	Windows XP Embedded EN (single partition)	Available for <b>Compact Flash</b> and <b>Solid State Disk</b> solutions
XSSYSWINXPEN04	Windows XP Embedded EN (double partition)	Available for <b>2 GB Compact Flash</b> and <b>Solid State Disk</b> solutions
XSSYSWINXPML00	Windows XP Prof. SP3 (Multilanguage)	Available for <b>Hard Disk</b> and <b>Solid State Disk</b> solutions

### Software

PCMACHINEBASE	PC MACHINE EDITION BASE is the runtime license ideal for those who need to exploit Visualyser potentials on XP based platforms.
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*Tailor made*



*Classic*



*Prime*



*Vogue*



*Bold*

Designed by ESA in Italy



**A quality you feel**, the new focus is home life.

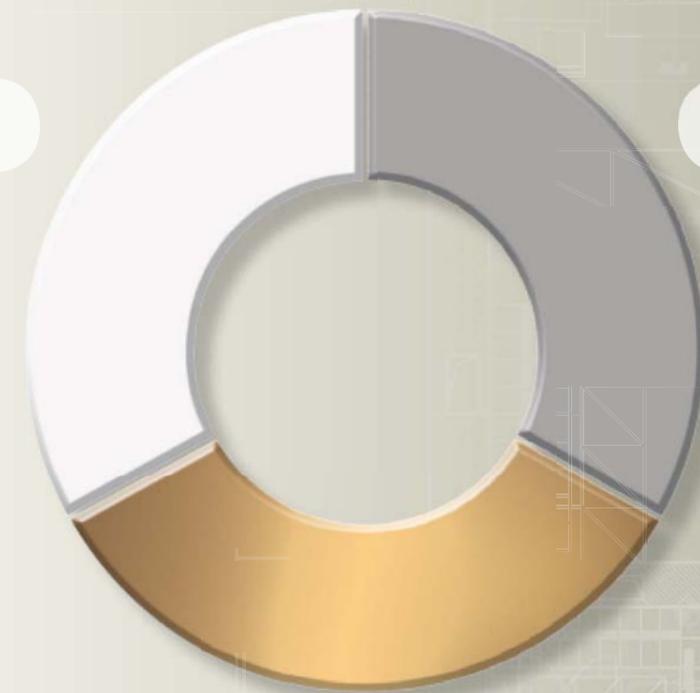
The Visualyser frame fits with the new aesthetic look we see in contemporary style home models. **Aesthetics meet necessity** merging into a form of technology that is soft and non-evasive.

It's for orientation, Visualyser gives a vertical active exchange with the display, a dialogue that doesn't expand but intensifies delving deeply into our daily lives, managing the world we live in.

4,3"	5,7"	15"
* = 4 ● = 0	* = 5 ● = 0	* = D ● = 4

**White**  
YC \* LFPW0XX0 ●

**Gray**  
YC \* LFPY0XX0 ●



**Gold**  
YC \* LFPD0XX0 ●



An emotionally sober basic frame that adds value and exalts the design of the object.  
Good also for landscape mode thanks to its **simplicity and universal character**.

**Grape Green**  
YC \* LSCG0XX00



**Glacier Ice**  
YC \* LSCW0XX00

**Pearl gray**  
YC \* LSCY0XX00

**Nocturne**  
YC \* LSCB0XX00



Corian®

**Wengé**  
YC \* LSWW0XX00



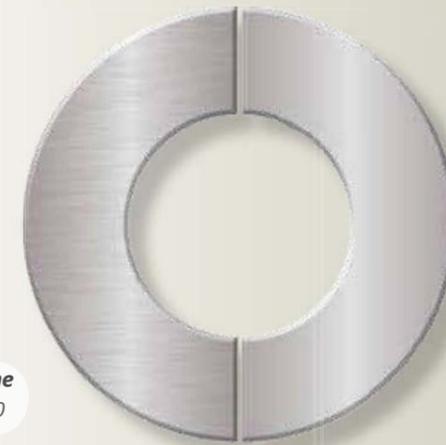
**Mahogany**  
YC \* LSWH0XX00

**Ash**  
YC \* LSWA0XX00



Wood

**Brushed Chrome**  
YC \* LSMN0XX00



**Chrome**  
YC \* LSMY0XX00



Chrome



\* = 5



\* = 7



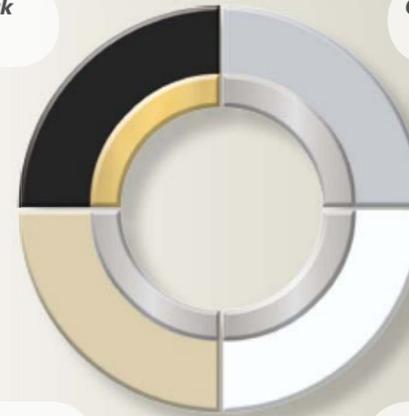
\* = A



A frame with an attractive design. A subtle representation of **elegance in basic version**.  
A one-piece frame with the finished element placed inside.

**Oro & Opal Black**  
YC \* TRPB0MD00

**Chrome & Opal Gray**  
YC \* TRPY0MC00



**Chrome & Opal Shell**  
YC \* TRPI0MC00

**Chrome & Opal White**  
YC \* TRPW0MC00



Chrome

**Glacier Ice & Opal Black**  
YC \* TRPB0CW00

**Glacier Ice & Metal Gray**  
YC \* TRPY0CW00

**Glacier Ice & Opal White**  
YC \* TRPW0CW00



**Glacier Ice & Ash**  
YC \* TRWA0CW00

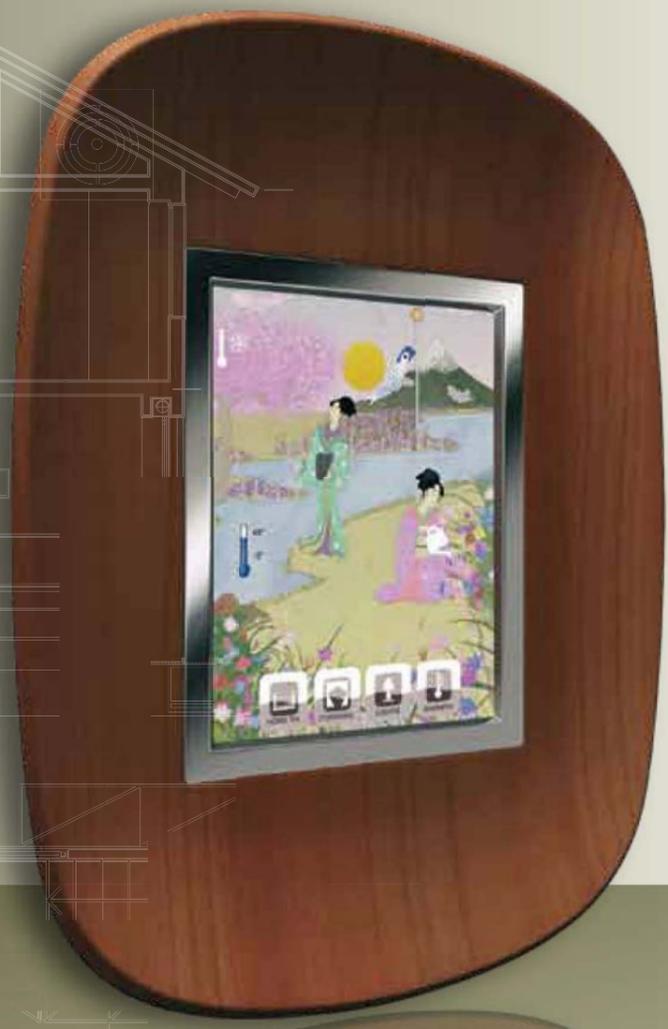
**Mandarin & Opal White**  
YC \* TRPW0CM00

**Nocturne & Opal Black**  
YC \* TRPB0CB00

**Nocturne & Opal White**  
YC \* TRPW0CB00



Corian®



The origin of the elliptical frame is an **oriental nature based aesthetic** and is the most innovative because its form doesn't integrate into the wall, just the opposite, it detaches.

**Wengé**  
YC \* MNWW0XX00

**Mahogany**  
YC \* MNWH0XX00



**Ash**  
YC \* MNWA0XX00

7,5"  
\* = 7

10,4"  
\* = A



***Simplicity that has never been seen before!***

**“Absolute control” inside MyVision means “Total simplicity”:** a powerful easy-to-use interface will guide you, configuring your project **with just the mouse by means of innumerable wizards and utilities.**

**Don't waste time: Home automation is now at your control** and can be realized in a few minutes without difficulty.



# MY VISION



**Do your whole project  
in a few minutes**

**Lights control** ON-OFF / dimmer lights

Number of ON-OFF lights:

Number of dimmer lights:

Advanced settings

**Ramp time to OFF**  
 Instantly  
 Specify time  Seconds

**Ramp time to ON**  
 Instantly  
 Specify time  Seconds

**Easy manage  
everything with  
just a mouse!!**



Easy import tags from external databases

**Associate the project tags  
with a simple drag & drop**

- Alarms
- Lights (ON/OFF and Dimmer)
- Air-conditioning and heating systems
- Irrigation
- Scenarios
- Curtain and rolling shutters
- Door and window automation
- Video surveillance
- Event and scenario scheduling
- Anti-theft and access control
- Hotel room control

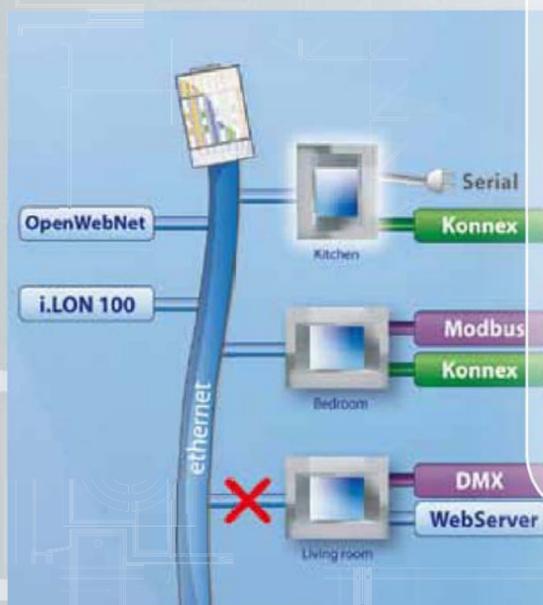
**CREATE POWERFUL SCENARIOS IN A FEW CLICKS**

Using an icons-based user interface you can immediately **manage the intensity of the lights, decide the temperature of many rooms, automate doors, windows and much more.**



**UNLIMITED CONTROL YOUR BUILDING**

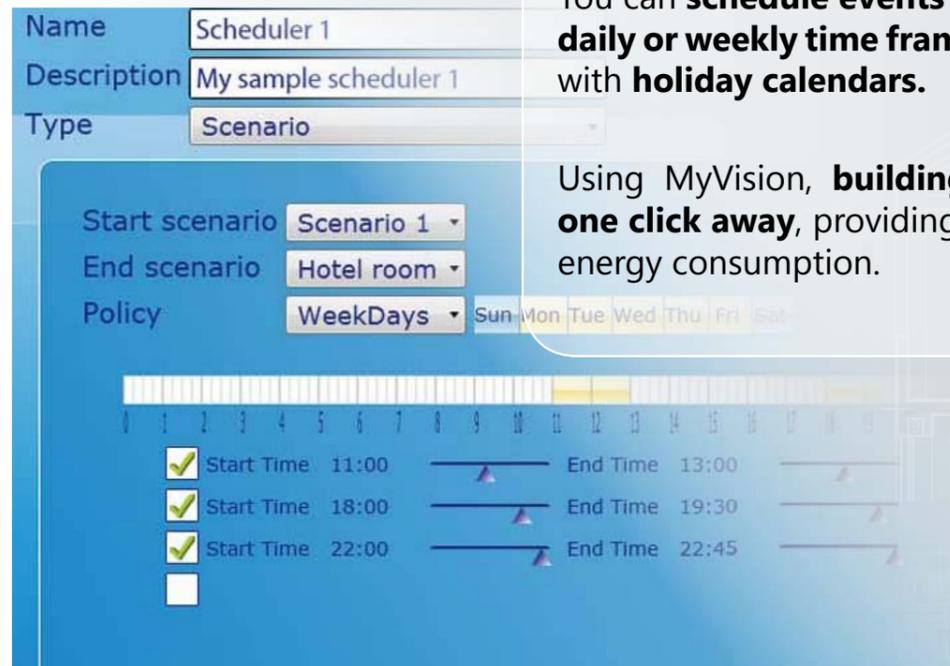
Just have to drag the devices you want in order to **create the perfect graphical representation of the building structure.**



Control a complex building or a small house by means of a **"Floors", "Zones" and "Rooms" organization**, allowing you to always have an accurate **winning overview of the edifice.**

**HOME AUTOMATION IN YOUR HAND**

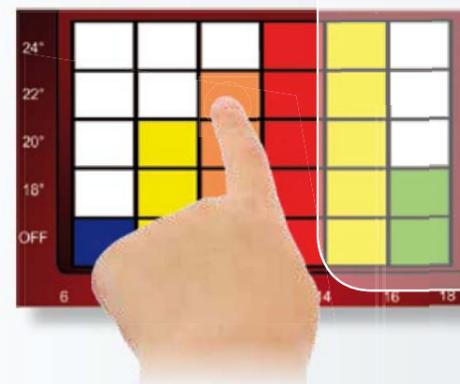
You can **schedule events and scenarios using a daily or weekly time frame**, even in combination with **holiday calendars.**



Using MyVision, **building automation is just one click away**, providing total comfort and low energy consumption.

**CHRONO-THERM AND THERMOREGULATION**

Whether you have to manage the temperature of a small apartment or regulate the climate of a whole building: you can always do it in the best way using **great looking and intuitive widgets or practical weekly chrono-therms.**





**SEE IT YOUR WAY**

All touch screen panels and cover plates can be **assembled either vertically or horizontally**



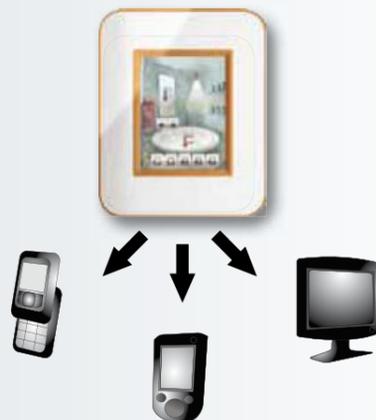
**REMOTE CONTROL YOUR HOUSE**

Every touch screen panel can be **remotely accessed** in order to have the **complete supervision and total control** of the monitored building



**EMAIL AND SMS UPDATES**

You can **be notified by Email or SMS** for alarms or processed events with the **option to restrict forwarding to specific users, hours and days of the week**



**MYVISION**

Powerful, easy-to-use software allowing you to create rich projects in a short time by means of an intuitive user interface and innumerable wizards

**POLYMATHKIT+  
POLYMATHEZBUILD**

Advanced programming Suite allowing you to manage complex Building and Home Automation applications, with the possibility to use sophisticated trends, manage multi-structured recipes, run Visual Basic scripts and much more

**PCREMOTEACCESS**

Supervise and control a remote touch screen panel from any Windows® based PC



**ESA web site: [www.esahmi.com](http://www.esahmi.com)**

- Direct contact with all ESA subsidiaries worldwide
- Fast interaction with the ESA world
- Simple and comprehensive products catalogue
- Guided search of the products
- News and downloads always up to date
- Quality Desk and reserved Area
- Online shop



**Customer Care**

- High level of expertise
- Many years of experience
- Rapid response to customer needs and questions
- Completely free service
- Test laboratory
- Software and hardware testing



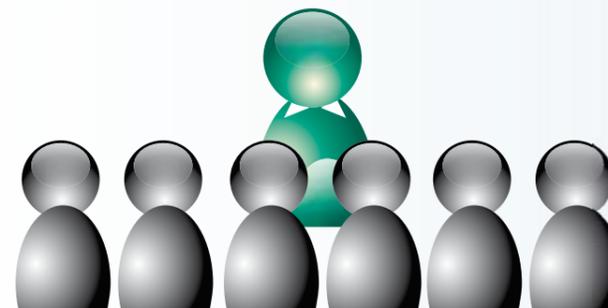
**Newsletter**

The use of new channels of communication, like Internet and the web-site, allow us to be in closer touch with customers, making it easier to offer them timely information and up-to-date news.



**Training courses**

- Highly qualified trainers
- Basic courses
- Advanced courses
- Practical tests on PCs and terminals



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