Italian Luxury – Award Winning Residential Installation

The complex integration was very intricate with a large technological impact. The project was awarded the KNX award for Best House Project. The solutions adopted range from energy management to security automation. Audio distribution with 16 audio zones and video distribution were also included to create the perfect home management system with mobile devices (iPad, iPhone, etc.) inside and outside the house.

The customer desired a comprehensive automation solution that is easy to use and reliable. The Leviton OmniPro II provides the brain for management and control over lighting, window coverings, engines, electric locks, HVAC, photovoltaic, videophones, irrigation, IP cameras, and security automation. Further, the integrated multi-zone system provides Full HD 1080p standard 3D 4K technology.

Working logic.

The system integrator applied the logic of plant centralization setting together a switchboard and a special rack in a single room.

In the switchboard are the load switches: attractors BUS / ABB and KNX (modules lights, relay, curtains, dimmers, engines, power supplies, serial ports and IP modules). In the rack: Patch panel , Switch HP, Modem-Router, Firewall Wachguard, NAS QNap, Player, Decoder Sky, NVR Geovision per TVCC Megapixel, HDMI PoH 4 K HDanywhere.

The integrator created a graphical map of the home installed on a third-party touchscreen to control the entire property.

About the BUS

There are 90 micromodules distributed in 504 boxes. All the buttons are connected to these for lights, curtains and engines control.

List Main Components

The realization of this project represents a perfect integration of innovative technologies. Everything has been studied with a lot of attention and the technologies for home automation have been selected with the greatest care and adapted to the request of implementation.

The result is a modern and ideal automation integration that has changed the customer's life.

In every controlled room there is one thermostat for temperature and humidity (19 temperature zones). The management system cold/hot is really complex and structured with

a VMC system. The integration into Leviton Automation is possible by the KNX protocol. This management is very important for the customer also for the presence of photovoltaic panels and the energy production. The homeowner is also the owner of the company VP Solar, one of the most important societies for the photovoltaic panels production.

In every single room there are a couple of Laboratorio audio speakers and a Leviton Hi-Fi 2 Volume Source Control for managing the ON/OFF functions. Other independent audio sources were distributed everywhere in the main rooms. In every room the installer distributed the signal video matrix through two CAT6 cables for transporting HDMI Full HD 1080p 3D 4K signal. Every television has a CAT5E wiring for LAN connection.

Leviton Solutions:	
20A00-21	OmniPro II Control System
33A00-3	Leviton International Console with Built-in Speaker Microphone
75A00-1	Leviton Access Control card reader
17A00-8	Leviton Expansion enclosure
75A00-2	Leviton Access Control Card Reader
78A00-2	Leviton Access Control Keytag
95A00-1	Leviton Hi-Fi 2 Distributed Audio System
96A00-3	Leviton iPod Dock – Wireless EU
95A03-1	Leviton Hi-Fi 2 Volume Source Control (VSC)
95A04-1	Leviton Hi-Fi 2 Remote Input Module
10A11-1	Leviton Two-Way Voice Module
54A00-1	Access Control Keypad
1120	Snap-Link USB Software
ISC-BDL2-WP12G	Volumetric indoor sensors
ISC-PDL1-WA18G	Volumetric indoor sensors
ISC-DS9370	TriTech detector with artificial intelligence
Octopus EP	360° incell PIR Pironix sensors
Faro ip	Curtain effect sensor
OP-BX80N	Optec IR detector with two curtain - outdoor

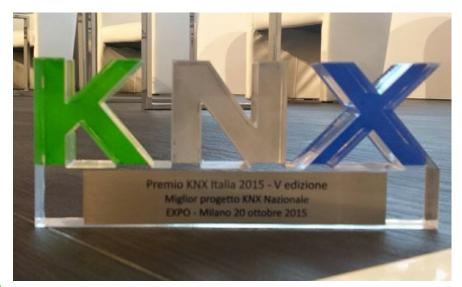| Integrated Solutions:	
HVAC	Zender
Touchscreen	GP Techno Crystal Series
Lights and Curtains	ABB KNX
Audio Speakers	Laboratorio Audio
Indoor and Outdoor Cameras	GeoVision
Intercom and Videophones	2N Helios
Video Distribution	HDanywhere
Touchscreen	GP Tecno Touchscreen

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