Intelligent Visualization Software
for Highest Requirements as to Functionality and Design

For Your Multimedia EIB/KNX House
IQHOME.NET is a highlight for your intelligent house. Thanks to its outstanding function and design it does not only represent a visualization but a comprehensive tool to control all important building functions. The integrated program modules of IQHOME.NET make it easy for beginners to make simple adjustments to put the facility into operation. Advanced users, however, can make fundamental and comprehensive changes and adjustments.

Other important aspects are the possible savings permitted by IQHOME.NET since many expensive EIB components such as burglar alarm system, clocks, presence simulation modules, scene control modules, blind control modules, alarm and information message console with SMS controller or control modules for complex control tasks etc. are already included in IQHOME.NET! With these integrated components your expenditure is reduced by several thousand Euros.

Furthermore, a future flexibility in case of changing uses and independence from alternative hardware solutions is guaranteed. In >Home Automation<, the intelligent house, there are unforeseeable and unimagined possibilities and extensions for EIB/KNX which can be realized by means of ELVIS. IQHOME.NET is based on the Profi-Software ELVIS (IT GmbH).

IQHOME.NET is a visualization tool that can be extended almost without any limits due to its open visualization platform. IQHOME.NET has already been configured ready for operation for the following important EIB/KNX applications and can be extended as desired:

- Lighting system
- Audio system
- Heating system
- History administration
- 4-side blind automatics
- Outside lighting control (Matrix)
- Alarm and information message system with SMS message function
- Alarm system as burglar alarm system (EMA)
- Central functions
- Weather data & sensor system tool bar
- Scenario manager
- Time switches
- Presence simulation
- Network integration
- Reminder function
- and many other tools…!
All menus can be called by means of self-explicatory and high-quality graphic navigation elements with appropriate symbols. All subjects can be labelled individually. There is an optimum configuration of all designs for standard and touch screen monitors starting from 15”.

**IQHOME.NET** is not only an intelligent highlight in function and design but can be extended to a complex management and multimedia console. As optimum accessories many other EIBMARKT GmbH project modules are available.

**IQHOME.NET** is ready for use without any delay as described and, if required, can be extended by experienced users themselves or the EIBMARKT GmbH team using the project software.

**IQHOME.NET** provides you with a variety of programmed solutions, tricks & knacks that can be adapted or extended individually using the project software. Thus, there is a quick way in to prepare your own visual management solution for your intelligent house. Due to the applications already integrated you get an excellent insight into all important program modules from navigation to complex control.

**IQHOME.NET** is available as Basic or Professional version, incl. runtime software & runtime licence for one control terminal (Process server & control terminal) as well as a project planning software (for one project). The control terminal does not have to be installed on the PC where the process server runs (PC with EiB interface RS232/USB) but can be installed on any computer within the network. During the standard licence period only one control terminal can access the process server at the same time. **IQHOME.NET** always comes with the project software Basic.

Project planning possibilities vary depending on the version (**IQHOME.NET** Professional or Basic) you purchase. The Professional version does not have any restrictions. The project software of the **IQHOME.NET** Basic version cannot access the visualization interfaces (control terminal) but only the database (group addresses, bus connections etc.). An upgrade of the project planning software from Basic to Professional is always possible.
Using the project software *Professional* the database (group addresses, bus connections, scripts, calculations etc.) and the control terminal (images, elements, navigation, etc.) can be edited completely and extended individually.

**IQHOME.NET** can be installed on any PC with 32-Bit-Windows-operating system (XP, 2000, NT). There is a wide range of further applications for central visualization and control. E.g. a parallel touch screen monitor as control panel (from 15") connected to the standard PC with the control terminal (visualization **IQHOME.NET**) that is concealed (up to 100 m away from the PC) and has an elegant and timeless stainless steel design. Or the integration on a combined concealed PC-Touch panel with screen types of 15”–17”. An elegant Hush Design PC (fanless) for the living room is another interesting possibility to use **IQHOME.NET** in a multimedia way.

The special feature of **IQHOME.NET** is its future flexibility and independence available at an excellent price performance ratio. Function modifications and new integrations as well as adaptations of design or networking level can always be carried out using the project planning software.
Thanks to the import of the data point lists (e.g. from the ETS) and the import of graphics as well as the model preparation for pages and control elements, project planning work can be reduced considerably. Application of the project planning macros, that can be modified if required, contributes to a very efficient project work. If you make full use of all these possibilities, even large facilities can be visualized by a project planner within a very short time.

To prepare visualization pages, vector graphics (DXF, WMF, EMF) can be imported and processed. Graphics data (BMP, JPG, GIF, etc.) can be embedded in the pages. Thus, you are able to integrate even accurate background graphics of the building layout (floor/areas). To display and modify the facility data, check elements (ActiveX) are placed in the visualization pages. Check elements of other SW manufacturers can also be used. There are no restrictions as to the number of pages, number of check elements or jump elements per page.

The project planner has a modular structure. That is why individual components in networks can be distributed to different PCs. The control modules (control terminal) can be connected with the central module (process server) by means of a network (TCP/IP). Web-Browsers can be used as control terminals (Web-Terminals). The process server works together with the Internet Information Service (IIS). The necessary pages can be prepared in an elegant way in the project planning work (ASPX).

*Fully developed basis thanks to ELVIS software modules (IT Gesellschaft für Informationstechnik mbH, www.it-gmbh.de)
Today software systems can only survive if the standards of the current operating systems are kept and the development of future operating systems is considered. At longer terms, this can only be achieved by using the latest software development tools and components. The high integration capacity of the IT- GmbH is permitted by preparing and applying the vital standard interfaces. Thus, a connection with other software systems such as Office products, interface elements (ActiveX) or OPC-Servers is made possible.

The project is programmed in an object-oriented way. Thus, a project planner can work more or less freely. There are no restrictions as to the number of data points (except those given by licence restrictions), the number of pages or the number of elements per page. Any number of time programs, recordings or calculations can be executed. The long-standing fault-free application in facilities of any size authorizes us to call this product a reliable system.

In the project planning, access authority and its administration represent a central mechanism that protects the object model and the process image from unauthorized access. Using the protection mechanisms of the operating systems (e.g. Windows 2000 or XP) a complete system can be created that offers a high security potential against attacks from outside and permits authorized people to work comfortably.

*Fully developed basis thanks to ELVIS software modules (IT Gesellschaft für Informationstechnik mbH, www.it-gmbh.de)
The operating terminal permits operation, display and control of max. 80 switchable (1Bit) and 6 dimmable (1 Byte value) appliances (lights, sockets etc.) directly by key, time switch or presence simulation program. Centrally and clearly arranged, a maximum of 40 switching groups can be operated per page. A navigation arrow permits to jump to the next page to operate another 40 switching groups.

In a high-quality one-family house, equipped with EIB/KNX, an average of approx. 300-500 data points (group addresses) is used in the visualization depending on the size of the house (100m² to 300m²) with about 40-80 group addresses required for local switching operations (lighting, sockets etc.).

The operating terminal with presence simulation can be applied to execute selective switching operations, to display the current situation or to integrate automatic functions. The presence simulation simulates customary activities in the house while you are away to protect your property from potential burglars.

**MANIFOLD POSSIBILITIES**

- Operation and status display for 80 switchable outputs (lights/sockets etc.)
- Operation and status display for 6 dimmable outputs
- All dimmable and 8 defined switchable groups are integrated in the scenario manager with 8 scenes
- A clock channel is assigned to each switching channel that can be activated in the special program >presence simulation<
- The clock channels of the dimmable outputs are also dimmable
- User-defined labelling of the switching outputs

**OPERATING CONSOLE**

- Operation and status display for 80 switchable outputs (lights/sockets etc.)
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**Central Command Terminal**

The central terminal serves to execute 16 freely definable central building functions of type 1Bit (On/Off) with individual labelling of the central commands. The central terminal manages up to 10 central commands for E/O-functions such as lighting and up to 6 central commands Up/Down for blind, roof light and/or garage door controls.

- Free definition of 10 On/Off central functions and 6 Up/Down central functions for motor-controlled applications
- Direct activation of the actuator single addresses, thus, no other central address at actuator required
- Thus, difference between the switching mode of the actuators and e.g. the LED- display at the key sensor is prevented
- User-defined labelling of the central commands

**Definition of Central Commands**

Always 3 out of a total of 10 different central commands can be assigned to up to 80 switching and 6 dimming channels of the operating console with presence simulation. The central command assignment for blind applications is executed directly at the actuators by means of ETS.

- Free assignment of max. 3 central commands to each of the 80 individual switching groups of the operating console
- Simple Drop Down menus to select one central command out of max. 10 definable commands
- Definition of the switch-on brightness (0-100%) with central “On” functions for 6 dimmable lighting groups
- Comprehensive combinations in hierarchies possible due to free assignments
SCENARIO MANAGER

- 8 scenes 6 dimming groups (Byte) and 8 switching groups (1Bit)
- Function selection switching groups: Off/No/On
- Function selection dimming groups: rotary-type regulator 0-100%
- Special function „No“ also ideal for blind preset functions, thus no change in case of scene modification
- 8-fold status-sensitive scene memory with security request
- 8-fold scene activation internal and external by means of push button or motion detector (send value) possible
- Automatic adoption of the scene names on the buttons „scene memory“ and „scene activation“
- Display of the currently selected scenario
- All functions in IQHOME.NET are persistent (adjustments are kept even when the server is shut down)
**Audio Console**

- Activation of EIB audio systems (e.g. WHD, see www.eibmarkt.com)
- Operating console for one Multi Room Stereo acoustic irradiation (audio actuator)
- 2 separate stereo channels (4 outputs) for any room assignment
- Both boosters can be activated separately and each is equipped with a separate clock program
- 4-fold source selection (e.g. TV, TU, CD, PC) each controlled separately and equipped with clock program
- Volume regulator 0-100% for each booster with separate clock program
- Clock programs permit automatic wake-up functions (cyclical volume increase) and atmosphere
- Highness, lowness, balance, area call, mute functions etc. can be parameterized for each stereo output
- Output of any *.wav files with the most different activities (wake-up, fire alarm, burglar alarm, presence simulation)
- Audio signal output from PC to any audio system possible (e.g. WHD), sound board required
- In the „Tel“ version even computer animated audio output (sound board - source PC) in case of data point modification possible
- Individual labelling of the room names
CLIMATE CONSOLE

- Status display (operating mode, desired and current temperature and control signal) of up to 12 room temperature regulators
- Operating mode switch-over manual
- Operating mode switch-over by means of individual time switch channels
- Status display (operating mode, malfunction, desired and current temperature, heating curve, operating hours) of the heat generator (VIESSMAN interface, Buderus on demand)
- Status display (switching conditions, malfunction, desired and current temperature) of the water supply system
- Recording/history of operating mode, desired and current temperature of the room temperature regulators
- Recording/history of desired and current temperature of heat generator and water supply system
- Histories with different representation filters, variable time segments and print function
- Set point adjustment at heat generator for holidays, level, curve behaviour (heating curve) and desired temperature of the water supply system
- User-defined labelling of the room temperature regulators
4-SIDE BLIND AUTOMATICS

- 4-side blind automatics for brightness-controlled shading
- Each side can be parameterized separately
- Each side disposes of a separate operating mode selection
- Time switch control release for each side (direction)
- Sensor selection out of 6 available sensor inputs (brightness)
- Display of the brightness value by the selected sensor
- Switching point of the brightness value
- Variable switch-on and off delay in limit value situation
- Remaining time display of the delays
- Adjustable blind position (segment height, segment angle)
- Status display of the control outputs (segment height, segment angle)
- User-defined labelling of the sides
OUTSIDE LIGHTING MATRIX

- 10 channel outside lighting matrix with 9 control channels each (4 automatic programs & 5 motion detector programs). Thus, complex, individual scenes are possible.
- Total scene memory as back up memory (Load from or to Standard)
- Each of the 10 outside lighting channels can be assigned to a selection of control channels, these always represent an „OR“-link
- Each of the 10 outside lighting channels has an operating mode switch with the operating modes „Automatic“, „Manual operation ON“, „Manual operation OFF“ and „No function“ as well as a clock program for automatic switch-over of the operating modes.
- Status display of the basic situation and direct switching possibility
- 4 separate control channels „Time switch/Twilight“ with the functions „ON“, „OFF“, „Twilight only“, „Clock only“ as well as „Clock + Twilight“
- 5 separate control channels Motion/Twilight with the function „Motion“, „Motion + External twilight sensor“, „Motion + Twilight sensor of the motion detector“ and „OFF“
- User-defined labelling of the outside lighting channels
**Alarm and Info-Message System**

- Integrated message system for 13 alarm messages, incl. alarm manager with history administration (alarm list) and a pre-alarm as well as collective alarm output (master alarm) with variable delay (retriggerable)
- All 13 alarm messages are administered separately in the alarm list
- Acknowledgement function for single alarms and collective alarms
- Automatic alarm list pop-up in case of alarm can be parameterized
- Alarm status and number of incoming alarms are also displayed by the front start page of IQHOME.NET
- 14 SMS alarm messages can be activated individually (13 single and one collective alarm)
- Individual parameterizing of phone numbers by means of Admin Console possible during runtime
- Status display for 22 info-messages, e.g. windows and doors
- User-defined labelling of alarms and messages
- Scalable measured value processing for one brightness sensor in general
- Scalable measured value processing for one twilight sensor
- Scalable measured value processing for one wind sensor in m/s, km/h and wind speed in standard steps and text
- Status display of a rain sensor
ALARM SYSTEM AS BURGLAR ALARM SYSTEM (EMA)

- Burglar alarm system with three activation areas (EMA)
- Each area with additional monitoring while present (night) and separate activation option
- 37 message inputs (lines) 22 of which are message inputs for window and door contacts as well as 15 motion detector inputs
- General alarm outputs (siren, flashlight, sound etc.)
- Area-related alarm outputs (alarm, SMS etc.)
- Matrix for free message input assignment for areas 1-3, EMA (E) / night (N)
- Cycle monitoring of the message inputs (can be switched on individually) with freely definable time intervals and status information
- 6 separate activation inputs to activate the areas 1-3 EMA (E) / night (N)
- Countdown function for activation delay of the areas 1-3 EMA (E) / night (N)
- Operating mode switch-over for motion detector (lighting-,message mode)
- Status display for activation stand-by, LED activation/deactivation message and operating mode
• Matrix for alarm output assignment for the areas 1-3 EMA (E) / night (N)
• Matrix for system functions of the areas 1-3 (panic, alarm output delays, SMS etc.)
• Extended panic function with logics for outside lighting matrix and optional twilight switch-off function
• Released detector display / contacts after alarm and registration in alarm list with time and date stamp
• Quit function for released detectors and reset of the alarm outputs
• Safety thanks to logic scripts in server, operating terminal does not have to be activated
• Remote access administrative or data point related
• Message function by means of SMS can be configured freely (3 SMS alarm outputs area 1-3)
• User-defined access rights
• User-defined labelling of the alarm outputs, message inputs and modules
WEATHER DATA & SENSOR SYSTEM TOOLBAR

- Scalable measured value processing for 4 brightness sensors assigned to the building sides,
- Weather data recording, Display in tables or charts with different representation filters, variable time periods, print function
- Definable sensor monitoring (cyclical time monitoring)
- Connectable frame indicator
- Display of all sensor system measured values
- User-defined labelling of the sensors

TIME SWITCHES

- 22 time switch channels for free application (in addition to the clock channels already used for blind and outside lighting control)
- Day, week and year program
- Manual operation possible with status display for each channel
- Special days and individual programs
- Display and output of current time/date as EIB-frame (cyclically adjustable) on the bus in EIB format, if a PC-DCF clock is used even prepared to receive date/time by radio signal.
- User-defined labelling of the time switch channels
REMINDER FUNCTION

- 10 channel reminder editor
- A free reminder text is assigned to each reminder
- A year time switch is assigned to each reminder to permit date definition
- In the editor, a test button for manual date release is assigned to each reminder
- Automatically generated message window (New Window) when reminder date(s) is/are reached
- Active reminders are shown in the reminder window with time and date stamp
- Using the <OK> button you can browse through several active reminders
- Automatic linking to the previous active visualization page after acknowledgement of the last active reminder

Message Window with Reminder and Date Stamp

Reminder Editor
**PRESENCE SIMULATION**

- Each of the 80 switching and 6 dimming groups disposes of its own time switch program
- Here, different operating modes can be activated, e.g. the presence simulation with freely editable switching dates and activities.
- Once parameterized, the presence simulation program can be started automatically when you are away (holidays etc.) and acts according to your instructions only. It is also possible to provide other specific programs according to your wishes and requirements.

**OPERATING HOUR COUNTER**

Operating hour counter (Bit) with runtime display and reset function for any runtime counting process of a switchable (Bit) appliance, e.g. of a pump, light bulb etc. In case of active counting the display is updated every 10 sec. (Refresh)
FOR FURTHER INFORMATION PLEASE REFER TO THE TECHNICAL MANUAL*

NOTES

TRADEMARKS

EIB

is a trademark of the EIBA s.c., Brussels (Konnex).

markt.de

is a brand name/symbol of EIBMARKT GmbH/Konnex Association

Windows®

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*You find the technical manual on the Internet under www.eibmarkt.de (Downloadcenter)