HOTEL AUTOMATION
WE AUTOMATE YOUR VISION
INTRODUCTION

Thailand based ELECON INTERNATIONAL CO., LTD. was founded in 1995 with the aim of becoming an industry leading provider of electronic devices and components. In the following years the company has grown dramatically and applied considerable expertise towards the design and production of advanced, custom-made electronic solutions, aimed particularly for clients in the hospitality sector. Hotels and resorts wanting to ensure their guests enjoy the utmost comfort and convenience look to ELECON for very innovative, intuitive and stylish technologies.

ELECON’s growth has coincided with a tremendous increase in tourism not only to Thailand but throughout Asia and the Middle East. With new hotels opening frequently, owners and designers rely on superior and reliable amenities to distinguish their properties within a highly competitive environment. In the case of switches, control panels and other components used in guest room technologies some manufacturers rely on standardized products in order to maximize market penetration. ELECON however has taken a different approach. By focusing on the unique needs of hotels, the company has established itself as one of the world’s pre-eminent providers of hi-tech customized guest room amenities.

Today, ELECON partners with and provides solutions for a great number of international hotel chains and groups. Indeed in Thailand alone, the company’s state-of-the-art products are preferred by some of the highest profile clients including; The EDITION MahaNakhon, Waldorf Astoria Bangkok, The Okura Prestige, The Sukhothai Bangkok, Rosewood Hotel & Resorts, Grand Hyatt Erawan Bangkok, LaLiT Bangkok, Banjan Tree, The Athenee Hotel, Marriott Hotel, Centara Grand at Central World, Renaissance Phuket Resort & Spa and many others.

The continuing satisfaction of ELECON customers locally has led to an increased presence abroad. The company’s reputation for customized solutions now extends to many countries including Myanmar (The Heritage Hotel Kempinski, Yangon), Cambodia (Park Hyatt Siem Reap), Singapore (One 15 Marina), Malaysia, Vietnam, Sri Lanka, Dubai and United Arab Emirates.

Combining technological expertise with a keen understanding of accommodation related requirements, ELECON creates a distinctive, personal touch of luxury for hotel guests worldwide. For more details please contact us directly to discuss your individual requirements.

TABLE OF CONTENTS

ROOM CONTROL UNIT (RCU)  4
ELECON ROOM AUTOMATION SYSTEM (ERAS)  8
BEDSIDE CONTROL PANELS
  LCD TOUCH SCREEN TYPE  12
  GLASS TOUCH SCREEN TYPE  14
  SOFT TOUCH TYPE  15
DIGITAL THERMOSTAT  16
PIR MOTION SENSOR  18
DIMMER  20
MUSIC IN BATHROOM  24
FOUNDER SAVER  26
SWITCH CONTROL PANELS
  INSPIRE SERIES  32
  MODERNRO SERIES  34
  IMPRESSION SERIES  36
  SERENE SERIES  38
  ROOM SIGNAGE  40
MEDIA HUB
  ACTIVE MEDIA HUB  42
  CUSTOMIZED MEDIA HUB  44
CLIENT REFERENCES  46

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Our considerable experience in the hospitality industry gives us direct insight into the needs of owners, designers and operators. Two key concerns among hotels are the need to maximize energy efficiency while at the same time providing guests with maximum comfort. ELECON's Room Control Unit (RCU) products have been designed and manufactured to fully meet such needs.

ELECON also keeps in mind that every hotel is different and international branded properties can have special requirements and needs. Our design and manufacturing process allows us to customize systems for complicated room configurations including suite rooms containing multiple areas to control via a variety of input devices.

ELECON RCU's are suitable for a wide range of accommodation types, from budget hotels and boutique properties to the most opulent six-star resorts. Common to all designs, however is the presence of important safety features in every unit, for example low-voltage input as part of wall switch and bedside control devices. ELECON can also provide a modern glass touch screen bedside device with customized graphics and look and feel. In addition ELECON's RCU is compatible with all industry standard low voltage gang switches.

ELECON's products have also been officially CE safety certified.

Features:
- Housekeeping Service Panel (Do Not Disturb / Make Up Room / Laundry).
- Lighting Control
- Dimmer Control
- Air-conditioning (Elecon custom designed Thermostats)
- Fan Speed Control
- Curtains/Blinds Control
- Music controls in Bathroom/Bedroom
- Motion and Heat sensors
- Centralized control monitoring system (E.R.A.S)
- Key-card holder (Micro switch or RFID type)
- Temperature Sensor at return air vent for accurate temperature control
- Automatic room energy saving with user programmable setback control
- Multiple setback control points for maximum energy saving.
- Option for online monitoring and control for maximum room energy management (network cabling required).
- Cost savings without compromising the guests comfort.
- Automatic sleep mode temperature control for optimum guest comfort and energy saving.
- Option to use motion sensors instead of key-card holder
- Option to use motion sensors for automatic light control
- Energy saving profiles for different room status; checked-in, occupied, occupied-vacant and checked-out.

Energy Saving Features:
- Key-card holder (Micro switch or RFID type)
- Temperature Sensor at return air vent for accurate temperature control
- Automatic room energy saving with user programmable setback control
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**RCU COMPONENT** | **SPECIFICATIONS**
--- | ---
**Case** | Metal box with ventilation slots plus connection to far ground (protection against electrical shock).
**Case Dimensions** | W 230 (mm) x L 330 (mm) x D 110 (mm)
W 300 (mm) x L 400 (mm) x D 120 (mm)
**Form Factor** | DIN rail modular design
**Relays** | 8 circuit (indispensable)
Air-con, Lighting and General Power Sockets 10amp
10amp
**Switching Power Supply** | Primary Rated Voltage: 110 - 240 VAC
Secondary Rated Voltage: 12 VDC
Frequency: 50/60Hz
Surge protected: IEC 61000-4-5
- Level 3 Criteria A
- Common mode : 4V
- Differential mode : 4V
**Environmental** | Operational Temperature: 10 to +60 °C
Relative Humidity: 0 to 90% (non-condensing)
**Switch Panel Controls** | Lighting & Service Panels 12 VDC
- 12V (output for LED Button Back Light)
- Panel option: Local Brand
- Glass Touch Switch
- Soft Touch Switch/Panel
- Bedside LED Control Panel
- Custom made panels
**RCU COMPONENT** | **SPECIFICATIONS**
--- | ---
**Safety Fuse** | Emergency Fuse: 3 Ampere
Normal Fuse: 5 Ampere
**Terminal Voltage** | Voltage: 300 – 600 Volts
Ampere: 15 – 25 Ampere
**Network Wiring (RCU Loop)** | Screened Twisted Pair with ground
**Microprocessor** | CPU model: PIC 18Fxx2
Battery Backup: DS1307 (10 year)
**Expansion modules** | - I/O module (16 channel)
- Relay module (8 relay)
- Dimmer Module (4 channel)
- DALI module
- Microcontroller Interface module
- VRM interface module
- Bridge
- Thermostat (0-10V)
- NO/NC relay
**Interface** | OPERA
Hot SOS
ELECON ROOM AUTOMATION SYSTEM (E.R.A.S)

Elecon can provide an advanced Room Automation System. By linking the RCU’s on each floor to the hotel’s existing network infrastructure every room can be monitored by a central server. Providing real-time monitoring of the RCU device status and service signals for the hotel housekeeping and engineering staff.

INTEGRATION OPTIONS & THIRD PARTY INTERFACES

• Property Management System

By interfacing with the hotel PMS (Opera) Elecon’s Room Automation System will receive real-time check-in and check-out signals to provide for welcome scene and fast cooling on arrival plus energy profiles when the guest leaves the room temporarily and energy saving plans when the room is vacant/checked-out.

For example, after a guest checks out, the room status can be instantly relayed to the RCU and the lighting switched off, power sockets disabled, the curtains closed and the thermostat adjusted, providing important energy saving to the property. When a guest checks in, the RCU will receive a signal to prepare the room for the guest entrance, setting of lighting scene by time of day, opening curtains and setting the thermostat for fast cooling.

• HotSOS (by Amadeus)

If the hotel has already implemented the HotSOS messaging system then Elecon can provide a custom interface with the E.R.A.S server so when the guest presses the Make-Up-Room, Laundry Pickup or other service call buttons inside the room these messages are instantly relayed to the HotSOS server and the staff mobile messaging devices.

E.R.A.S™ Elecon Room Automation System

Guest Room Management Software

Providing unique centralized monitoring and control of Elecon’s room control units and guest room management software is a one-stop solution that benefits the hotel engineering, housekeeping and management staff.

INTEGRATION OPTIONS & THIRD PARTY INTERFACES

HOME Summary

A quick snapshot of the room control unit’s service status by floor or by group of rooms, showing if any rooms are off, the number of rooms currently in non-service status, occupancy status and the status of any service requests.

Room Plans

Room plans for every room type showing the AC zone controlled by each thermostat and the location of motion and door sensors.

AC Status & Performance Charts

These charts show the AC status and AC status of each FCU or AC zone including the fan speed, temperature set point, the ambient room temperature and temperature differential analysis.

RCU Status

The network status and health of each room control unit with indicators for any components that might require attention.

RCU Setup

Centralized control to modify the operational logic or setting parameters for individual room control units.
Hardware & software options:
- Elecon provides the software application only
- Both iOS or Android platforms are supported
- The tablet device, stand and charger is supplied by the owner/operator

Software features:
- Elecon room controls integration:
  - Lighting controls
  - Air conditioning controls
  - Service request buttons
  - Hotel information
  - F&B promotions and advertising
  - City guide information
- Server located inside the hotel for security, speed and reliability
- Information pages can be updated by the hotel staff
The ELECON LCD Touch Screen Panels are installed on the bedside table to provide convenience for the guest. The panel provides a clock with alarm function and all of the room control functions are available including the thermostat, lighting controls and scene settings, curtains and guest service controls.

The button layout and graphic icons can be customized to match the room functionality and fit the design theme and décor of the room.

Features:
• Light controls
• Dimmer and scene settings
• Air conditioning temperature controls and fan speed
• Digital clock with Alarm/Snooze function and optional world time function.
• Do not disturb/Make up room/Laundry/Butler
• Curtains and Blinds control
• Support for multiple languages
• Customizable layout and graphics
• Proximity sensor for automatic panel backlight
• Automatic backlight brightness adjustment
• Multiple language support
• Customizable frame colour to match room decor
• Automatic centralized clock adjustment (network connection required).

Specifications:
The screen is a color active matrix TFT-LCD that uses amorphous silicon TFT as a switching device. This model measures 7 inches diagonally with an LED backlight and a edge-to-edge front glass panel.

7 inches Color VGA TFT Module
• Display resolution (pixel): 800(W) x 480(H)
• Color resolution: 262,144 colors (256K 18bit)
• Display area: 152.4 (W) x 91.44 (H) mm.
• Pixel pitch: 0.1905 (W) x 0.1905 (H) mm.
• Color Configuration: RGB Vertical stripe
• Overall dimension: 178.5 (W) x 110.0 (H) x 19.8 (D) – (approx.)mm.
GLASS BEDSIDE TOUCH PANEL

The Elecon glass touch bedside panel shown here provides a robust, reliable and cost effective user interface for the room lighting and air conditioning settings and service controls. Designed, engineered and manufactured by Elecon it features a custom designed front surface with backlighting to highlight each touch point.

Using capacitance switch technology each button zone is highly sensitive and responds instantly to the slightest touch. The illuminated screen comes alive in bold colors, sharp images and easily legible text. Button layouts, color, text and icon symbols are fully customizable according to the hotel's preference.

Features:
- Light controls
- Light scene settings
- Air conditioning temperature and fan speed
- Digital clock with Alarm/Snooze function
- Service controls; Do Not Disturb, Make Up Room
- Curtains and Blinds control
- Customizable layout and graphics
- Customizable frame colour to match room decor
- Low-voltage wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere in the room.

Specifications:
- 7 Inches diagonal glass screen
- Dimensions including base: 178.5 (W) x 110.0 (H) x 19.8 (D) - (approx.) mm.

SOFT TOUCH BEDSIDE PANEL

Application:
The ELECON Soft Touch Bedside Panel is installed next to the bedside and provides convenience for the guest to control all of the room settings from one handy panel. The panel is a Soft Touch (Membrane) Button Type.

Features:
- Light control with soft touch switches
- Dimmer and scene settings
- Air conditioning temperature controls and fan speed
- Remote TV/Music, channel and volume control
- Digital clock with alarm and world time function
- Do not disturb/Make up room
- Curtains and Blinds control
- Button functions, design, layout and colors are customizable
Elecon’s Digital Thermostats provide easy to use controls for temperature and fan speed control.

Our thermostats can be built into existing standard brand frames to match with existing switch panels and room décor. In addition Elecon can provide customized thermostat panels in glass or metal with different finishes and colours.

Features:
- Microprocessor controlled
- Programmable settings mode
- Four digit display for precise digital control
- Low voltage (12VDC)
- Low installation costs, easy to install and operate
- The relay control unit is separate from room display panel
- Multi-way control
- Interface with PIR sensor (via RCU) for energy management
- Occupied/Unoccupied mode for energy saving
- Auto restart after power failure
- Central control and monitoring (option)
- Customizable thermostat panel as required
- Engineer mode to access special test functions
- Celsius/Fahrenheit switch and Auto fan mode (option)
- Separate temperature sensor installed in return air duct
Energy saving for our customers is one of our top priorities when designing our products. We always consider the hotel owner’s expenses in maintaining the hotel without compromising the beauty, elegance and services of the hotel.

ELECON’s motion and heat sensors are used for both motion and presence detection to save energy when the room is unoccupied. With the combination of unique technology and ELECON’s superior logic intelligence and fail-safe modes we can reliably check when a guest is present in the room or sleeping. This ensures that the energy use of the room can be optimized without any inconvenience to the guest.

In addition to using ELECON’s motion sensors for energy saving they can also be applied to switching on night lights or bathroom lights automatically or to detect intruders who have entered the room without a key card.

What is passive infrared type?
This sensor detects changes in infrared radiation which occur when there is movement by a person (or object) which is different in temperature from the surroundings.

1. As this sensor detects temperature differences, it is well suited to detecting the motion of people by their body temperature.
2. Wide sensing area.
Dimming Guide

Lighting is a major use of energy in all hotels. When dimming is used in combination with Elecon’s other energy saving technologies, owners and operators can benefit from major cost savings.

Light dimming is also an essential part of modern lighting control to set the scene and mood of a room and to provide an outstanding guest experience.

There are various types of dimming control devices available, but the most popular are ‘phase control’ (or phase-cut) dimmers, these can be of the “Leading Edge” or “Trailing Edge” phase control type as described here. Dimming is done by controlling 220VAC loads or 12-24VDC loads for LED’s.

After extensive research and development, Elecon has developed special dimming modules to cater for both mains 220VAC and low voltage LED lighting loads.

Trailing Edge Dimmers

Trailing edge dimmers are more sophisticated than leading edge dimmers, and usually have a ‘MOSFET’ or ‘IGBT’ switch rather than a ‘TRIAC’ and coil and are sometimes called ‘electronic’ dimmers. This benefits the user with smoother, silent dimming control and no “buzzing” noise.

A trailing edge dimmer also has a lower minimum load (often 10W) compared with leading edge dimmers, making it a better choice for dimming low-powered LED lighting circuits.

Trailing edge dimmers can also benefit older incandescent and halogen bulbs with the ‘soft start’ (low in-rush current) feature built into the dimmer control circuit which prevents ‘Filament’ bulbs from dying or exploding of thermal shock when first switched on.
PWM Dimming

PWM dimming can be categorised as a type of Digital dimming. Instead of adjusting the DC current, PWM dimming achieves the same effect by varying the duty cycle of the constant current. It switches the input current of the LED lamp at a high frequency between 0A and the rated current, and this modification of on-off rate of the LED will result in the change of light output level (percentage).

This is suitable for LED’s that need to maintain colour consistency when dimmed down to lower than 40%, and lighting applications with mixed colour control. The power supply should be of high quality and be able to run the LED at a high enough frequency.

0(1)-10V Analogue Control for Dimming

This module and method often works very well for dimming dedicated LED fittings when coupled to a 0(1)-10V dimmable driver unit. Dimming is often smoother and lower than mains dimming options. This method requires separate ‘control’ cables between the dimmer module and the light fitting driver.

Compatibility Issues

Older incandescent “filament” bulbs are all dimmable by default, however LED retrofit bulbs have a built-in driver in their base. The driver converts AC power to DC power and maintains a constant current to the LED. This is at odds with a phase control dimming system, since the driver attempts to compensate for the sliced out portions of input voltage.

LED fixtures such as down lights usually include an external driver, either of a ‘constant current’ or ‘constant voltage’ type, depending on the LED array design. In either case, the same issue arises: the LED driver or power supply will try to patch up the missing parts of input voltage.

Because of this widespread LED compatibility problems exist, these problems show up in a number of ways, including flickering, flashing, dead travel, ghosting, dropout, pop-on, and pop-corning. So all LED lamps should be fully tested with the dimmer module and driver units to ensure matching and a smooth reliable installation.
MUSIC IN BATHROOM

ELECON’s customizable Music in Bathroom system lets guests enjoy audio entertainment while relaxing in the tub or at any other time when using the bathroom facilities and amenities. The audio source can originate from preprogrammed music channels, local broadcast radio stations or from the TV system, all managed through a control unit in the bathroom. The two-part system comprises an amplifier and a music/volume switch panel. The switch panel is fully customizable in terms of color, finish and frame. In addition an in-built safety feature also ensures that the audio entertainment can be suspended during any hotel emergency announcements.

Features:
- Low-voltage cabling and wiring for safe operation
- Inexpensive installation

Customizable elements:
- Size and shape
- Switch button type:
  - Soft touch button / Push button / Rotary switch
- Colors of device component as well as button and LED illumination
- Text language and symbol/icon type
- Branding on face panel
- Material and finish: Aluminum/Glass

Application:
- Volume control
- Channel control
- AV speaker override for emergency announcements

ELECON MUSIC CONTROL PANEL

Features:
- Low-voltage cabling and wiring for safe operation
- Inexpensive installation

Customizable elements:
- Size and shape
- Switch button type:
  - Soft touch button / Push button / Rotary switch
- Colors of device component as well as button and LED illumination
- Text language and symbol/icon type
- Branding on face panel
- Material and finish: Aluminum/Glass

Application:
- Volume control
- Channel control
- AV speaker override for emergency announcements

Operation:
The ELECON Music in Bathroom system can be connected to the bedroom TV or centralized Radio/Music system and interfaced with the hotel emergency communications/public address system. Guests can control the speaker volume using volume control units located in the bathroom and bedroom.

TECHNICAL SPECIFICATIONS
- UK or US socket size
- Cabling – TIEV 6 core
- Power – 12 VDC
- Ambient temperature operation range – 0° to 40° C
- Maximum 6 buttons per panel

Novotel Bangkok on Siam Square
Introduction:
The Elecon Power Saver unit was invented to help hotel owners and managers efficiently control the guest room energy consumption.

Two main models:
1. Magnetic Relay Model (3 circuits - 24vdc 30amp) Heavy duty version for controlling Split-Type Air Conditioning units
2. Relay Model (optional 3 or 6 circuits - 12vdc 30amp) For controlling central Air Conditioning systems with Water Valve activation

The Power Saver can be supplied with a Key Card Holder/Key Tag Holder using either a microswitch contact or RFID sensor. The keycard or keytag can be branded with hotel logo.

Operation:
When the guest first walks into the guest room and inserts the keycard into the Keycard holder the Power Saver will supply electricity to all lighting circuits, air conditioning and power outlets.

When the guest leaves the room and removes the keycard the Power Saver will remove the power from the room and switch off the A/C after a preset delay of 30-45 seconds (programmable). Essential power for the minibar or charging sockets are not affected.

Optional equipment:
A thermostat and service panels for Do-Not-Disturb, Make-Up-Room, Bell can also be supplied.

Specifications:
Made from the plastic ABS V-0 Flame Retardant
Anti-fire
Anti-rust
Air ventilation is provided by vents on the left and right sides

Dimensions:
H105mm x L245mm x W120mm
ELECON Custom Switch Panels and Sub-panels can be made in different sizes, colors, finish and styles depending on the client’s requirements. We always strive to offer well designed switch panels to match the beauty and elegance of the hotel design without compromising quality. We offer a variety of different switches that will satisfy the needs of all hotel owners.
This function requires motion sensors to be installed inside the guestroom.

**KH (Key card holder):**
Inserting a compatible key card into the key card holder will activate the welcome scene power settings inside the guestroom. When the guest leaves the room and removes the key card, the power supply to the room is removed after a short delay and the air-conditioning set back.

**CR (Corridor panel):**
A typical guestroom corridor panel will include PRIVACY (Do-Not-Disturb) and SERVICE (Make-Up-Room) indicators and a BELL button. This panel can also include a hidden function for hotel staff to check for the presence of guests inside the room.

**LS (Light switch):**
A local switch for turning on/off the toilet light.

**CP1 (Bathroom control panel):**
The bathroom panel includes individual lighting controls for the bathroom area and mirror with dimming controls to adjust the overall lighting level. This panel also includes blind control buttons.

**MS-1 (Master & service):**
This panel, located just inside the room entrance, includes a MASTER light switch and a SERVICE button to call for service or room cleaning (Make-Up-Room), and a PRIVACY button (Do-Not-Disturb). The PRIVACY button will also disable the room bell from ringing.

**CP-8 (Lighting scene controls):**
This panel allows the guest to override the automatically set lighting scenes with manual control buttons for DAY, EVENING, and NIGHT scenes. The overall lighting level for each scene can be further adjusted up or down.

**CP-3, CP-4 (Bedside control panels):**
The bedside panel includes a MASTER button to switch off all the lighting inside the guestroom except for night lights, bathroom lights, reading lights etc. (programmable). The PRIVACY button (Do-Not-Disturb) mirrors the entrance panel function and will stop the room bell from ringing. The NIGHT LIGHT button controls the night light under the bedside table and bathroom counter.

The air conditioning controls have on/off, temperature and fan speed adjustments.

Blinds and drapes control buttons are also included together with dual USB charging sockets and international power sockets.

**CP-8 (Lighting scene controls):**
This panel allows the guest to override the automatically set lighting scene with manual control buttons for DAY, EVENING, and NIGHT scenes. The overall lighting level for each scene can be further adjusted up or down.

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The ultimate in minimalist design whilst maximising functionality. Each standard size single switch panel can support from 1 to 6 individual buttons. The material surround can be supplied in brushed aluminium or stainless steel with anodised or PVD colouring.

Features:
- Low-voltage wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere inside the room.

Customizable elements:
- Color of device components as well as button and LED illumination.
- Text language and symbol/icon type.
- Metal finish: antique brass, stainless steel & aluminium.
MODERNO SERIES

Created with a flare of modernity and ease of use in mind.

Each standard size single switch panel can support from 1 to 3 individual buttons with up to a total of 4 individual functions per single panel. The material surround can be supplied in metal, glass or ABS.

Features:
- Low-voltage wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere inside the room.

Customizable elements:
- Color of device components as well as button and LED illumination.
- Text language and symbol/icon type
- Finish: Glass, ABS, stainless steel or aluminium

Application:
- Individual lighting controls, dimming controls, scene setting, night-light, master on/off.
- Other room controls including fan, curtains/blinds, music/audio controls.
- Digital thermostat panel
- Service controls and indicator panes for Do Not Disturb, Make Up Room, Laundry, Butler etc.
- Doorbell activation
Naturally inspired, the clean lines and touch simplicity make these switches stand out and will leave a positive long lasting impression.

Each standard size single switch panel can support from 1 to 6 individual buttons. The glass backing colour, text and iconography can all be customised.

**Features:**
- Low-voltage wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere in room

**Customizable elements:**
- Size and shape
- Color of glass panel and color of button background LED illumination
- Text language and symbol/icon type

**Application:**
- Individual lighting controls, dimming controls, scene setting, night light, master on/off
- Other room controls including fan, curtains/blinds, music/audio controls
- Digital thermostat panel
- Service controls and indicator panes for Do Not Disturb, Make Up Room, Laundry, Butler etc.
- Doorbell activation
SERENE SERIES

Long lasting and cost effective, soft touch membrane switches convey quality whilst offering simple maintenance and flexible customisation.

Each standard size single switch panel can support from 1 to 6 individual buttons. The face panels can be matched to that of major switch and socket brands to blend harmoniously with guestroom décor.

Features:
- Low-voltage cabling and wiring for safe operation
- Inexpensive installation
- Multi-way switching for full function control anywhere inside the room

Customizable elements:
- Size and shape
- Color of device components as well as button and LED illumination:
- Text language and symbol/icon type
- Branding of face panel.

Application:
- Individual lighting controls, dimming controls, scene setting, night light, master on/off
- Other room controls including fan, curtains/blinds, music/audio controls
- Digital thermostat panel
- Service controls and indicator panels for Do Not Disturb, Make Up Room, Laundry, Butler etc.
- Doorbell activation
**ROOM SIGNAGE**

The ELECON exterior room signage features the same state-of-the-art technology sleek styling of the glass series in-room switch panels.

**Features:**
- Low-voltage wiring for safe operation
- Inexpensive installation

**Customizable elements:**
- Color of glass panel and color of button background LED illumination
- Text language and symbol/icon type for indicators
- Material: glass, aluminum, antique brass

**Applications:**
- Do Not Disturb/Make Up Room indicators
- Doorbell activation

**Technical Specifications:**
- Button diameter – 1.7 cm
- Maximum buttons per panel – 4
- Dimensions of panel W10cm x H28cm
- Cabling – TIEV 4 core
- Power – 12 VDC
- Ambient temperature operation range – 0° to 40° C
MULTIMEDIA HUB & USB CHARGING

ACTIVE MULTIMEDIA HUB

ELECON's Active multi-source media hub (AMH) offers the simplicity of requiring no more than a single HDMI cable from the hub to TV. All source signals including AV and VGA are converted to an HD signal and sent via HDMI. For the guest this means no need to access complicated menus via the TV remote control in order to change the input source type, instead any input source will be converted automatically at the hub.

The AMH panel can also provide USB plug and play functionality via a compatible TV. For this function an extra USB will be required between the hub and a USB supported TV port.

To automatically change the TV to the hubs HDMI output the TV must support the HDMI CEC function. Elecon's engineers will be glad to confirm compatibility with your TV make and model.

Features:

Stylish and Customizable appearance
The hub components are customizable to each property's requirements for blending with the hotel decor. Style features include a new aluminum finish in range of colors.

Convenient Bluetooth access
An advanced Bluetooth module provides quick connection for enjoying stereo music through the TV from mobile devices or computers that support Bluetooth.

Multiple audio/video interfaces
The hub provides VGA, AV, HDMI, USB and Bluetooth connectivity.

HD Conversion via Single Cable
A simpler, neater design allows for easy installation and eliminates cord clutter.

Plug and Play
Auto-detect function makes device connection quick and convenient.

1080P HD video transmission
Dual-channel technology ensures full HD video transmission up to 1080p.

Play and Charge through USB
USB media playback including video and device charging capability.

Integrated internet access
Convenient wired internet access through standard RJ45 interface.

Feature:

1Compatible TV with CEC signal support required.
ELECON CUSTOMIZED MULTIMEDIA HUB

ELECON’s Customized Multimedia Hub (CMH) provides a low-cost solution for hotels requiring specific exterior configurations to match the room interior design. The hub panel capability can be tailored by adding or removing various connector types and sockets. The panel appearance is also fully customizable. Connection types include: Universal power socket, HDMI, AV (RCA), VGA, Audio 3.5mm, USB Play and Charge, telephone and broadband internet sockets.

The panel material choices include aluminum, acrylic, glass and Rowmark. ELECON CMH capability is especially useful near desks and workspaces where cord reach and cord clutter are concerns.

MULTIMEDIA HUB & USB CHARGING

ELECON's Customized Multimedia Hub (CMH) provides a low-cost solution for hotels requiring specific exterior configurations to match the room interior design. The hub panel capability can be tailored by adding or removing various connector types and sockets. The panel appearance is also fully customizable. Connection types include: Universal power socket, HDMI, AV (RCA), VGA, Audio 3.5mm, USB Play and Charge, telephone and broadband internet sockets.

The panel material choices include aluminum, acrylic, glass and Rowmark. ELECON CMH capability is especially useful near desks and workspaces where cord reach and cord clutter are concerns.
CLIENT REFERENCES

Aloft (Bangkok)
Al Raha Beach Resort (Dubai)
Anantara Samui Bangkok Hotel
Anjuna Beach
Anjuna Laguna Phuket
Banjan Tree Bangkok
Banjan Tree Britan Villa Resort
Banjan Tree Phuket
Banjan Tree Samui (Gurat, Thailand)
Centara Grand at Central Plaza (Laudphrao, Bangkok)
Centara Grand at Central World (Bangkok)
Centara Grand Beach Hua Hin
Centara Grand Beach Resort Phuket
Centara Grand Mirage Beach Hotel (Pataya)
Centara Grand West Sands Resort (Phuket)
Cinnamon Lakeside (Colombo)
Crowne Plaza Bangkok
Crowne Plaza Phra, Tiant (Vietnam)
Dusit D2 Chiang Mai
Dusit Thani Hua Hin
Dusit Thani Laguna (Phuket)
Dusit Thani Phuket
Dusit Thani Samui (Surat Thani)
Dusit Thani Pattaya
The Bangkok EDITION by Ritz Carlton
Four Points by Sheraton (Bangkok)
Grand Hyatt Erawan (Bangkok)
Pullman Bangkok Grande Sukhumvit
Hansar Samui Resort and Spa (Gurat, Thailand)
Hilton Phuket Arcadia Resort & Spa
Hua Chang Heritage Hotel (Bangkok)
Huai Hin Marriott Resort & Spa (Hua Hin)
InterContinental Bangkok
InterContinental Pataya Resort
Le Meridien Bangkok
Le Meridien Chiang Rai Resort
Le Meridien Khao Lak Beach & Spa Resort

The Sukhothai Hotel, Bangkok
Park Hyatt, Siem Reap
The Athenee, Bangkok
The Heritage Hotel Kempinski (Yangon)

Marriott Merlin (Phuket)
Marriott Resort & Spa, Nai Yang Beach (Phuket)
Marriott Resort & Spa Pattaya
Marriott Resort & Spa Rayong
Marriott Bangkok The Sukhothai
Novotel Bangkok Sukhumvit 20
Novotel Bangkok on Siam Square
Novotel Phuket (Phuket)
One75 Marina Club (Singapore)
Park Hyatt Siem Reap (Cambodia)
Pullman King Power Bangkok
Pullman Pattaya (Chonburi)
Radisson Blu Plaza (Bangkok)
Renaissance Pattaya Resort and Spa
Waldorf Astoria Phuket by Rosewood Hotels & Resorts
Sunway Pyramid Hotel (Malaysia)

Angsana Laguna, Phuket
The Sukhothai Hotel
The Heritage Resort & Spa (Bangkok)

Rosewood Phuket by Rosewood Hotels & Resorts
Sunway Pyramid Hotel (Malaysia)
The Athenee, Bangkok
The Heritage Hotel Kempinski (Yangon)

The Sukhothai Hotel
The Heritage Resort & Spa
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