



INTRODUCTION

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

ELECON's growth has coincided with a tremendous increase in tourism not only in Thailand but throughout Asia as well as the Middle East. With new hotels opening frequently, owners and designers rely on superior amenities to distinguish 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 application. From its start, however, ELECON took 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 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: Park Hyatt Cambodia, The Okura Prestige Bangkok, The Sukhothai Bangkok, Four Seasons Hotel Bangkok, Banyan Tree Bangkok, Grand Hyatt Erawan Bangkok, Le Meridien Bangkok, JW Marriott Hotel Bangkok, Centara Grand at CentralWorld, Renaissance Phuket Resort & Spa and among other properties.

The continuing satisfaction of ELECON customers locally has led to an increased presence abroad. The company's reputation for customized solutions now extends to countries including Malaysia, Vietnam, Sri Lanka, Dubai and United Arab Emirates, to all of which ELECON exports products for clients demanding sophisticated designs produced to the highest international standards.

Combining technological expertise with a keen understanding of accommodation-related requirements, ELECON creates a distinctive, personal touch of luxury for hotel guests worldwide.

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TABLE OF CONTENTS

ROOM CONTROL UNIT (RCU)	4
NETWORK SYSTEM	8
BEDSIDE CONTROL PANEL	
TOUCH SCREEN	10
BEDSIDE CONTROL PANEL	12
DIGITAL THERMOSTAT	14
PIR MOTION SENSOR	16
MUSIC IN BATHROOM	18
PUBLIC AREA LIGHTING	20
CONTROLS SWITCH SERIES	22
SOFT TOUCH SWITCH	26
PUSH BUTTON SWITCH	28
GLASS SERIES	30
ROOM SIGNAGE	32
ROOM ENTERTAINMENT	
ACTIVE MEDIA HUB	34
CUSTOMIZED MEDIA HUB	36
IPTV	38
CLIENTS	42



THE OKURA PRESTIGE, BANGKOK



AUNGSANA LAGUNA, PUKET



PLAZA ATHENEE BANGKOK,
A ROYAL MERIDIEN HOTEL



LE M'ERIDIEN, BANGKOK



GENTARA GRAND MIRAGE, PATTAYA



ROOM CONTROL UNIT

(R C U)

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 to provide guests with maximum comfort. ELECON's Room Control Unit (RCU) products have been designed and manufactured to fully meet such needs.

ELECON likewise keeps in mind that every hotel is different, including those of branded properties, and so are careful to match units to individual requirements. Our design and manufacturing process furthermore allows us to customize systems for complicated room configurations, for instance suite rooms containing multiple areas to control via a variety of input devices.

ELECON RCUs are suitable for a wide range of accommodation types, from budget hotels, to boutique properties, to the most opulent five-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. RCUs similarly have been designed for compatibility with Elecon bedside control and touch screen panels as well as with commonly used gang switches.

Features

- Working with Keycard holder
- Housekeeping Service Panel (Do Not Disturb/Make Up Room)
- Lighting Control
- Dimmer Control
- Air-conditioning Control with our customizable Thermostat
- Fan Control
- Curtain Control
- Music in Bathroom/Bedroom
- Remote Control for TV
- Movement sensor
- Networking to Central Monitoring System

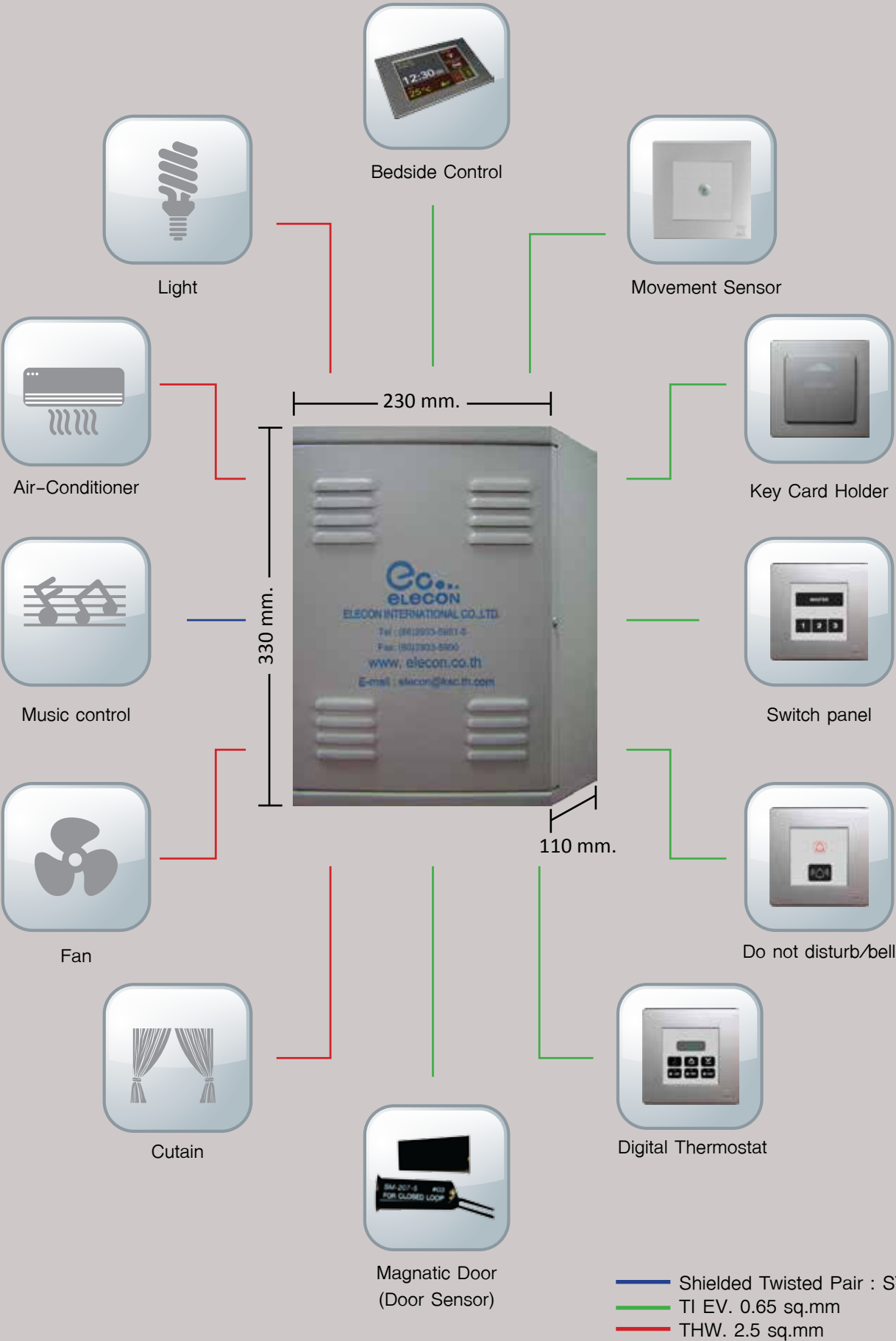
Energy Saving Features:

- Built-in temperature sensor for accurate temperature control
- Automatic room energy saving with user programmable setback control
- Multiple setback control points for maximum energy saving
- Optional for online monitoring and control for maximum room energy
- Cost saving with compromise to guest comfort
- Automatic sleep mode temperature control for optimum guest comfort and energy saving

ELECON RCU Specifications

RCU COMPONENT	SPECIFICATIONS
Case	Metal box with ventilation slots Able to connect to bar 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)
Relay Control Circuit Control Relay Air-con & Lighting General Plugs Brand	12 Relays (Additional 5 Relays) Air-con, Lighting and General Plugs 10 Ampere 30 Ampere HKE / OMRON
Switching Power Supply Primary Rate Voltage Secondary Rate Voltage Frequency	200 – 240 VAC 12 VDC 50/60 Hertz
Environmental Operation Temperature Relative Humidity	-10 to 50 0 – 90% (Non condensing)
Switch Control for Lighting & Do Not Disturb Low Voltage Switch	12 VDC Switch Options: Local Switch Glass Touch Switch Soft Touch Switch Bedside Control Panel Touch Screen Control Panel
Fuse Emergency Fuse Normal Fuse	3 Ampere 5 Ampere
Terminal Voltage Ampere	300 – 600 Volt 15 – 25 Ampere
Wiring	2 Cores cable (indicators and switches)
CPU Back Up PCB Networking Programming Controller	PIC 18Fxx2 DS1307 (Long Life – 10 Years) Two Hole (Protect Noises) Supported using RS485 C Language Options: Touch Screen Panel\Bedside control panel iPad Control Android Tablet Control

ROOM CONTROL UNIT DIAGRAM



NETWORK SYSTEM

INTERFACE AND INTEGRATION SOLUTIONS

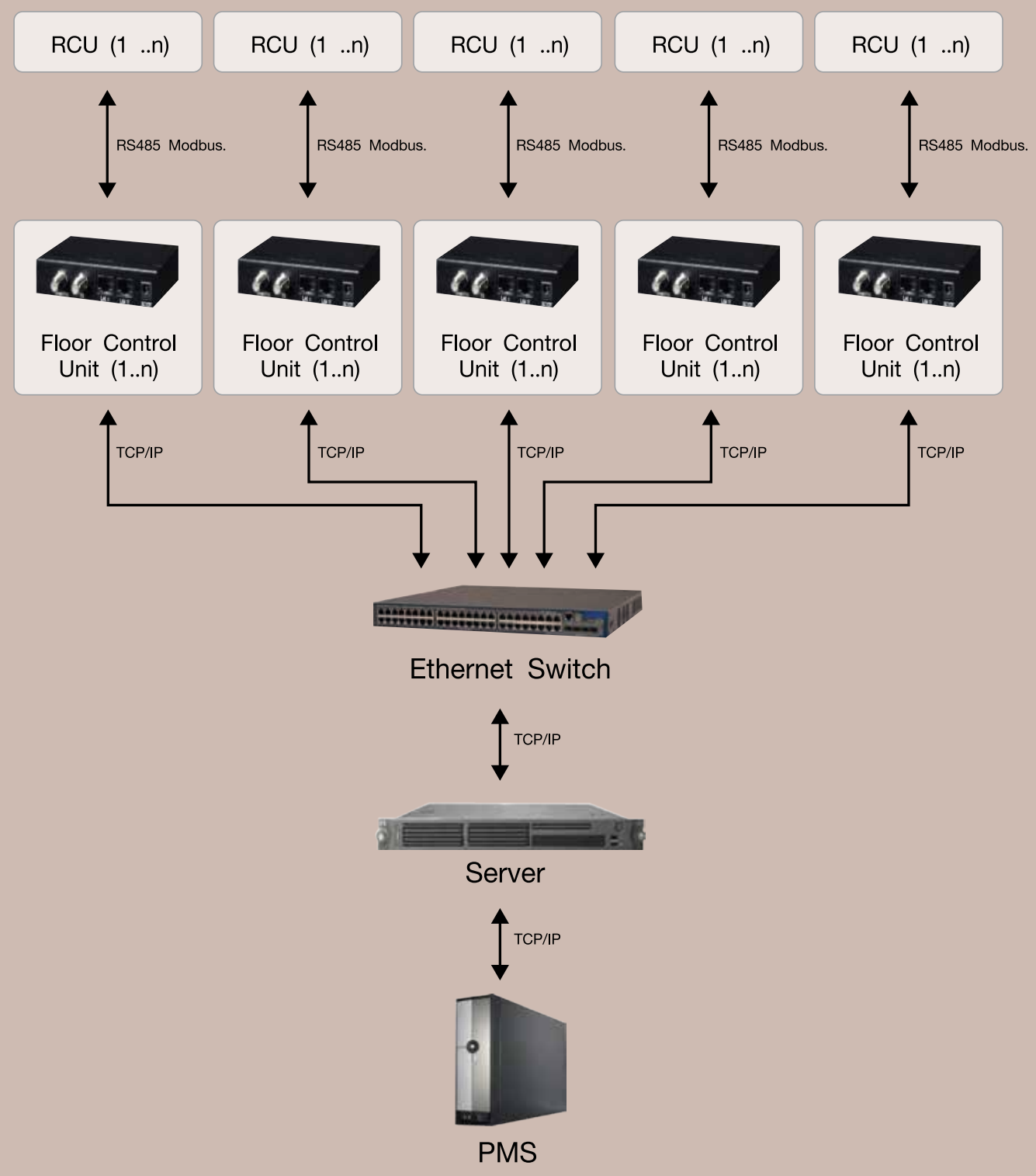
ELECON’s integrated Network System links each relay control unit (RCU) throughout a hotel with a central server. This creates a “hotel guest room control system” for interfacing with other systems, including the hotel’s:

- Property Management System
By interfacing with hotel PMS, ELECON’s Network System provides an interactive, online communication network linking electronic devices in each room with the front desk, housekeeping, concierge as well as other hotel areas. The system allows for advanced guest room management.

For example, once a guest checks out, room status can be instantly relayed and “Save Now” temperature settings remotely applied, allowing hotels to reduce energy use after a room is no longer occupied. When a guest checks in, the system’s “Ready Temp” mode quickly ensures comfortable conditions on room entry. ELECON’s Network System solution also continuously monitors the current temperature of every room, providing real-time information so that hotels can shut down chillers when not needed and achieve additional energy savings.
- Building Management System
Through ELECON’s Network System link, BMS monitoring and control of building’s mechanical/ electrical equipment can be extended to inside each guest room.



NETWORK SYSTEM DIAGRAM



BEDSIDE CONTROL PANEL TOUCH SCREEN

Application

ELECON Touch Screen Bedside Panel is installed next to the bedside with provides conveniences for the guests. The device will display all the control functions available on the thermostat. Touch Screen receive inputs from various devices and sends outputs to control these same devices, as well as other devices where no inputs are generated including Alarm clock/World time. A completely customizable device with multifunctional controller that provides the conveniences for the guest. Simple interface control with power saving for hotel users and can also be integrated with other devices. Within the standard design guidelines, the designer controls the look and feel of the guest interface. The hotel can also add a selection of music genres such as the guest can use as well.

Operation

Touch Screen Bedside Controller is the latest leading-edge technology designed for guest to appreciate the multifunction device and the satisfaction for the guest. Each of Touch Screen Panel switch function displayed will provide an instant response.

Features

- Light control
- Dimmer and scene setting.
- Air condition control, temperature set and display.
- Digital clock with alarm and world time function.
- Do not disturb/Make up room/ Privacy please function.
- Blinds, curtains control.
- Display can be dimmed
- Multiple languages applications.
- Customized as required.

Specifications

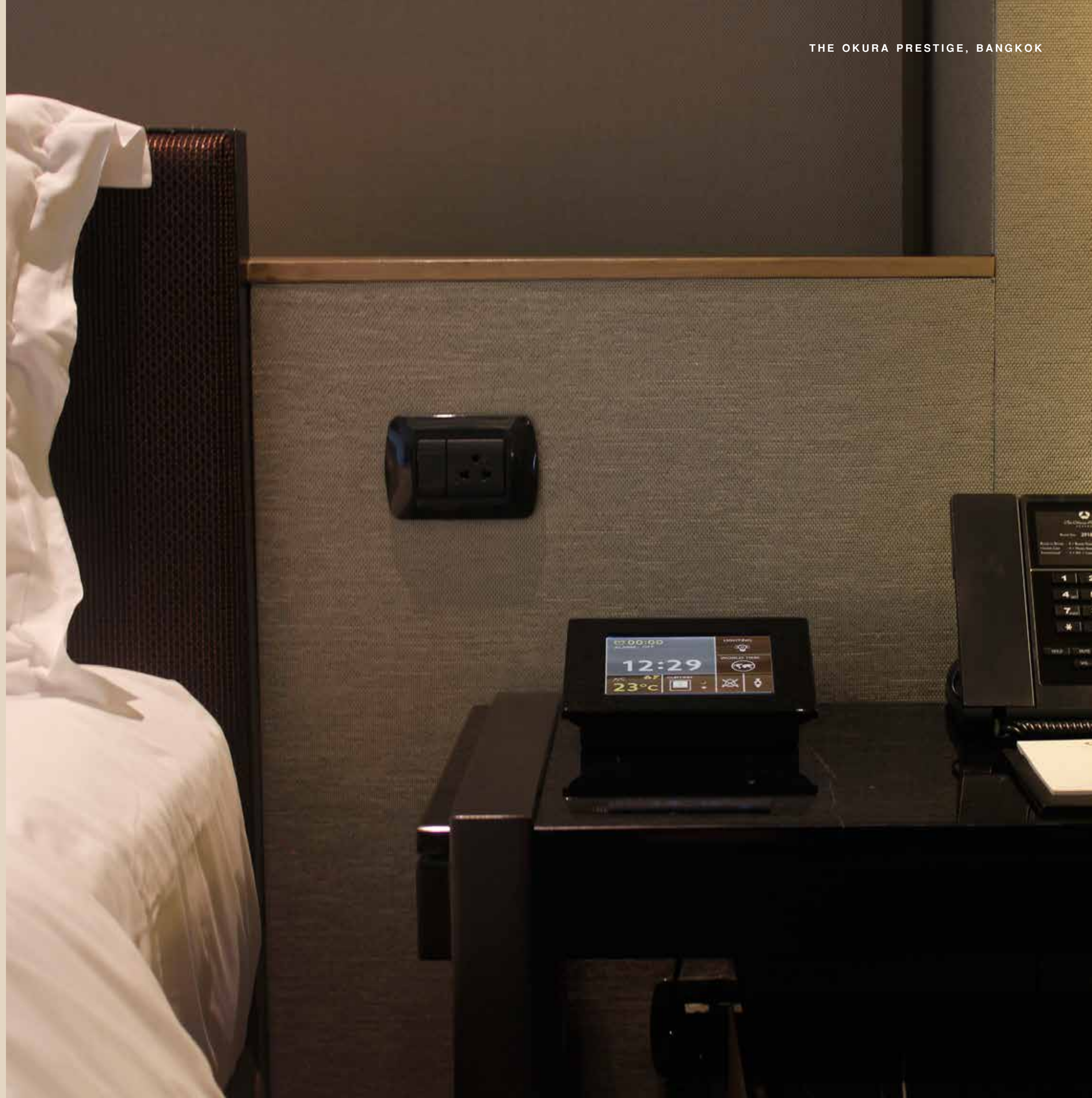
The screen is a color active matrix TFT-LCD that uses amorphous silicon TFT as a switching device. This model is composed of a 5.7/7 inches TFT-LCD panel, a driving circuit; touch panel and LED backlight system. This TFT-LCD has a high resolution and can display up to 262,144 colors

5.7 Inches Color VGA TFT Module

- Display resolution (dot): 640RGB (W) X 480 (H) dots.
- Display area: 116.16 (W) X 87.12 (H) mm.
- Pixel pitch: 0.18 (W) X 0.18 (H) mm.
- Color Configuration: RGB Vertical stripe
- Overall dimension: 127.0 (W) X 98.43 (H) X 9.1 (D) – (Typ) mm.

7 Inches Color VGA TFT Module

- Display resolution (dot): 800RGB(W) X 480(H) dots.
- 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) – (Typ) mm.





BEDSIDE CONTROL PANEL

Application

ELECON Bedside Panel is installed next to the bedside with provides conveniences for the guests. The panel is the Touch Button Type. It is cater the tailor-made style, which compliment with the requirement of our client. Touch Button Bedside Control Panel also have features similar to Touch Screen Bedside Control Panel such as World Clock and Make Up Room. A completely customizable device with multifunctional controller that provides the conveniences for the guest and simple interface control with power saving for hotel users and can also be integrated with other devices. Whatever the client wants, ELECON gives.

Features

- Light control with soft touch switch.
- Dimmer and scene setting.
- Air condition control, temperature set and display.
- Remote TV/Music, channel and volume control.
- Digital clock with alarm and world time function.
- Do not disturb/Make up room/ Privacy please function.
- Blinds, curtains control.
- Customized as required.



GRAND HYATT,
ERAWAN BANGKOK

DIGITAL THERMOSTAT

Elecon Digital Thermostat Provides temperature control, and motion detection for energy efficient management of the AC system. Equipped with ENERGY SAVING MODE to provide additional energy saving benefits. Elecon Digital Thermostat is customizable to match with the room décor.

Features

- Microprocessor – Based
- Programmable by Hotel
- Four digit display for precise digital control
- Low voltage
- Low installation costs, easy to install and operate
- Relay control unit is separated from room display panel
- Multi-way control
- Interface with PIR sensor
- Balcony Door monitoring
- Occupied/Unoccupied mode for conserving energy
- Auto restart after power failure
- Central control and monitoring
- Customize thermostat panel as required

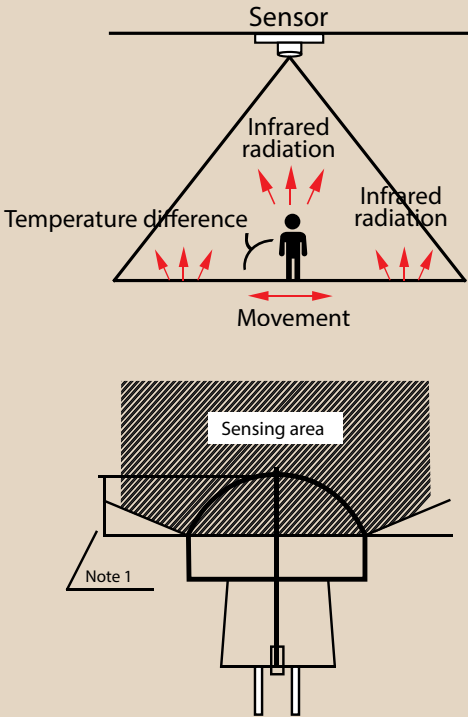




MOTION SENSOR

Energy Saving is one of our top priorities in 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 itself.

ELECON designed a Movement Sensor not to monitor the guest’s activities but to save the energy. Our sensor is purely connected to our system so much so that when the room is vacant, the air conditioning system will automatically increase temperature. When the room occupied and movement happens the movement sensor will detect and set the temperature back to the guest setting.



Technical Specifications

Specifications	Value
Detection distance	10 m (Max.)
4 C	Horizontal 110 degree Vertical 93 degree
Detection range	Detection 80 Zones
Detection object size	700 mm x 250 mm
Movement speed	0.8 to 1.2 m/s
Ambient temperature	0 to 40 C

Conditions

Detectable difference in temperature between the target and background for the spot type is more than

MUSIC IN BATHROOM

ELECON's customizable Music in Bathroom system lets guests enjoy audio entertainment while relaxing in the tub or any time when using bathroom facilities and amenities. Audio source can originate from pre-programmed music channels, local broadcast stations or via TV system, all managed through control unit in bathroom. Two-part system comprises amplifier and music/volume switch panel. Switch panel functions such as channel and volume control are fully customizable at design stage. An in-built safety feature ensures audio entertainment programming is automatically superseded during emergency announcements, for instance in the event of fire or any urgent situation requiring the immediate attention of all hotel guests.

ELECON MUSIC CONTROL PANEL

Panel functions are fully customizable at design stage. The system's in-built safety feature, moreover, ensures audio programming is automatically superseded during 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/ push button/ rotary
- 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

Chanel control

AV speaker override for fire/emergency alarm

Operation

Elecon Music in Bathroom system is connected to the bedroom systems (TV and radio) and interfaced with hotel emergency communications/ public address system. Guests can control the speaker volume using volume control units located in the bathroom and bedroom.

TECHNICAL SPECIFICATION

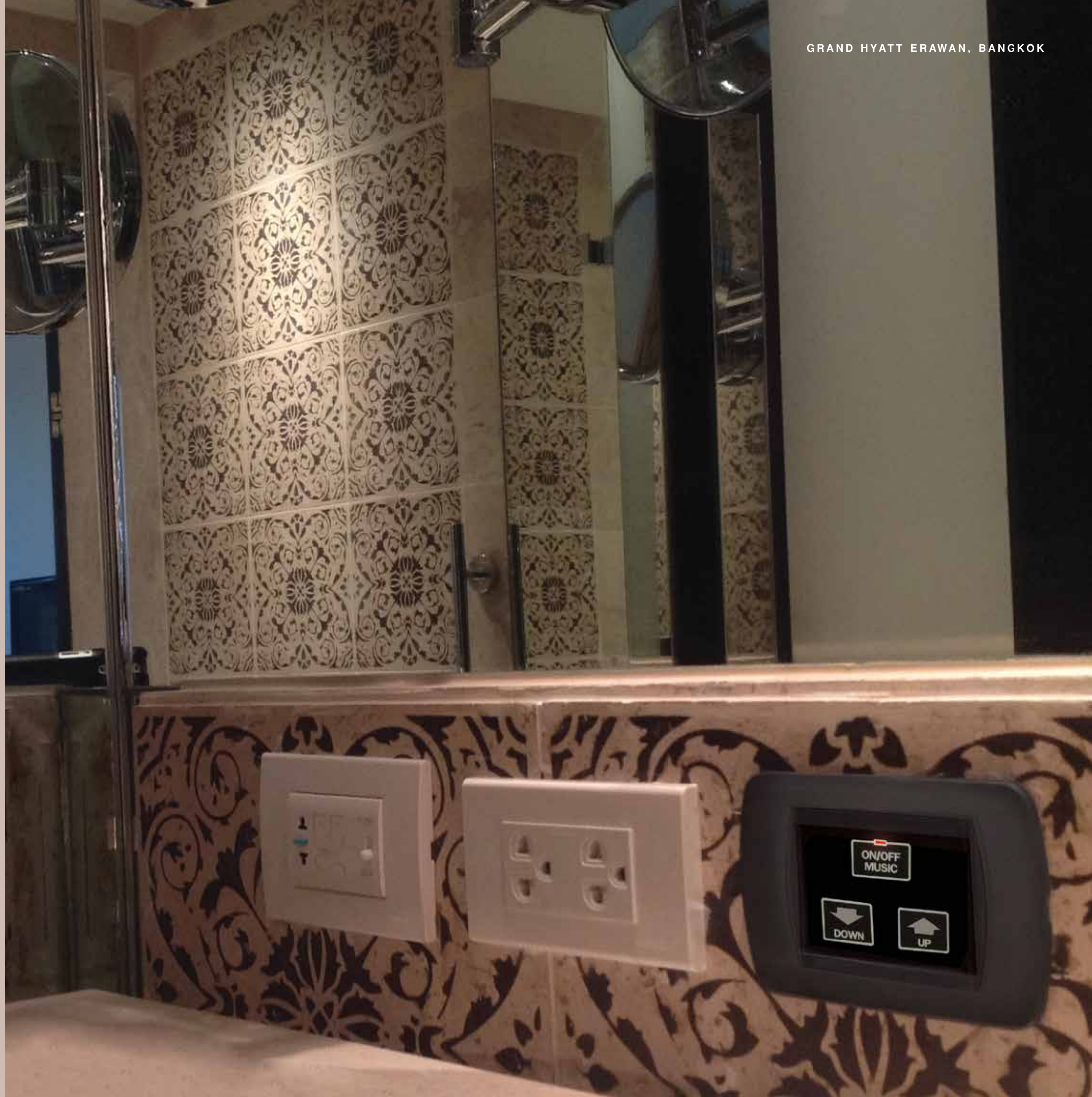
UK or US socket size

Cabling – TIEV 6 core

Power – 12 volt dc

Ambient temperature operation range – 0° to 40° C

Maximum 6 buttons per panel





PUBLIC AREA LIGHTING CONTROLS

Well-designed lighting effects define space and establish mood. They also save energy. ELECON controls enhance hotel and resort surroundings with elegant and efficient illumination.

Our customized solutions include preset scenes allowing for quick creation of a desired ambience; light levels likewise can be adjusted within presets for a fine-tuned atmosphere.

ELECON's public area systems fully customizable to specific requirements also ensure easy operation with no more than a touch of each control panel's vibrant symbols and graphics.



SWITCH SERIES

ELECON Switch Panels and Sub-panels are made of different sizes, colors, finish and brands depending on the client's requirement. We are always after the beauty and elegance of the hotel motif but without compromising the quality of our products. We always offer variety of switches that will satisfy hotel owners.



KEY CARD HOLDER

When the guest walks in to guestroom and inserts Key Card into Key Card Holder, it will let electricity supply to all lighting, air conditioning and power outlet. When taking out the Key Card, it will be set to delay for 30-45 seconds before automatically cut down the electricity in the room.



FAN CONTROL

One of the features from ELECON RCU is the Ceiling Fan Control. The panel controls this fan which can be tailor-made using available switch face plate brands for maintaining identity and consistency of guestroom design.



CURTAIN CONTROL

With our additional module on ELECON RCU, we offer the guest curtain control for the most comfort of every guest. Curtain control via switch panel that once again tailor made to every hotel which requires it.



LIGHTING CONTROL

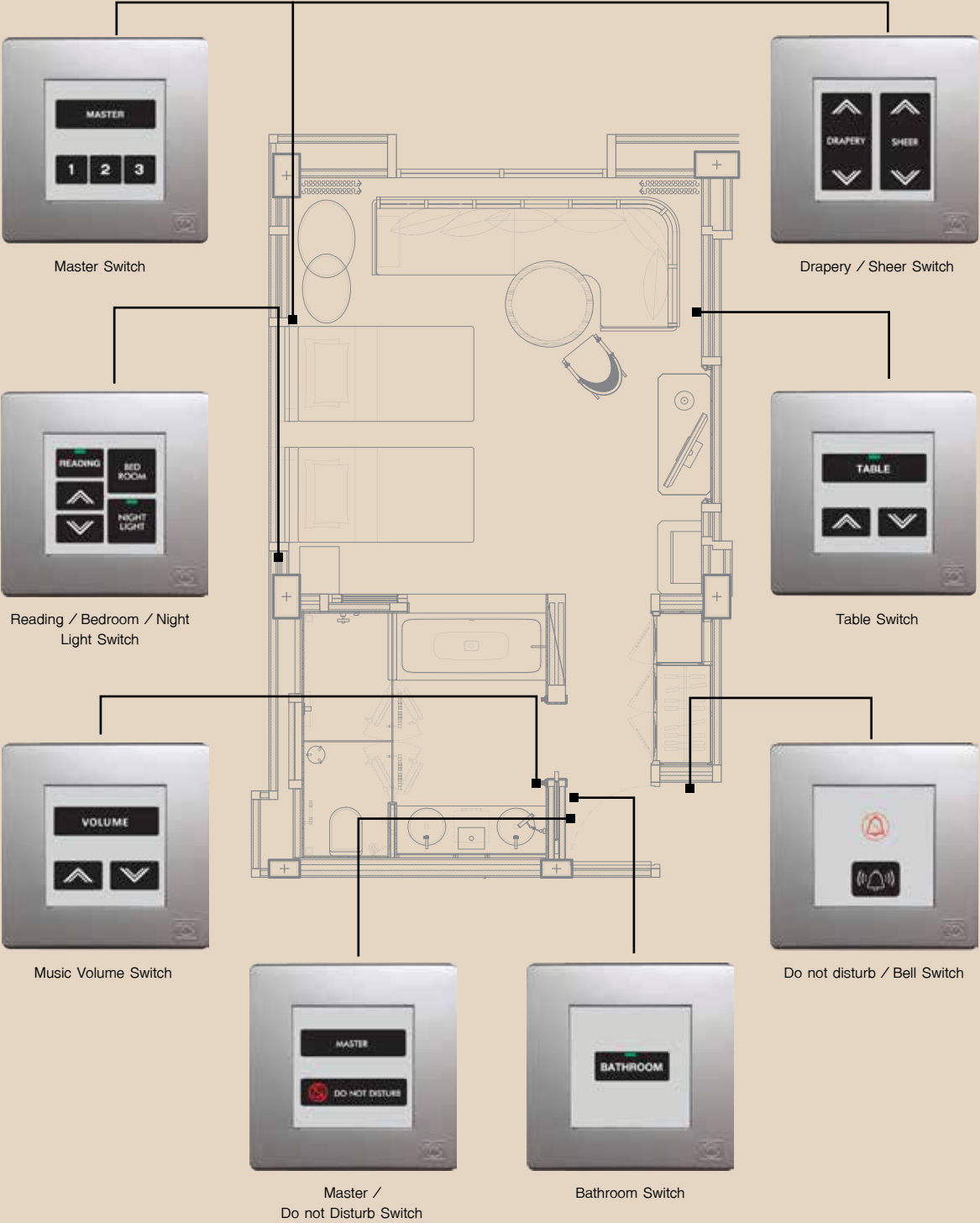
It is a common setup and program for the switch to turn on or turn off a particular light or group of the lights according to hotel requirement as this is normal operation for ELECON RCU. However with advance design and ELECON can produce more advance functions in accordance with hotel's requirements like setting up a dimming system and set scenes.



Our ELECON RCU comes with the modular designed that is expandable to many controllers. It is easy to have control over the lighting by adding Dimmer into RCU. Lighting designer can set the scene for default, and the guest can adjust to their favorite. With our tailor made switch offer the guest ease of control over the light that comfort with.



PROJECT : PARK HYATT SIEM REAP



SHERATON GRANDE SUKHUMVIT,
A LUXURY COLLECTION HOTEL



ROSEWOOD HOTEL &
RESORT, PHUKET



SOFT TOUCH SWITCH

Elecon's Soft Touch Switch technology has been designed and manufactured specifically for the hotel industry. All components are customizable to each property's requirements and feature wide-ranging functions that ensure the safety, security, comfort and convenience of guests. Face panel appearance, moreover, can be matched to that of major switch and socket brands such as Biticino, MK, Schneider, Panasonic and others to blend harmoniously with hotel décor.

Features

Low-voltage cabling and wiring for safe operation

Inexpensive installation

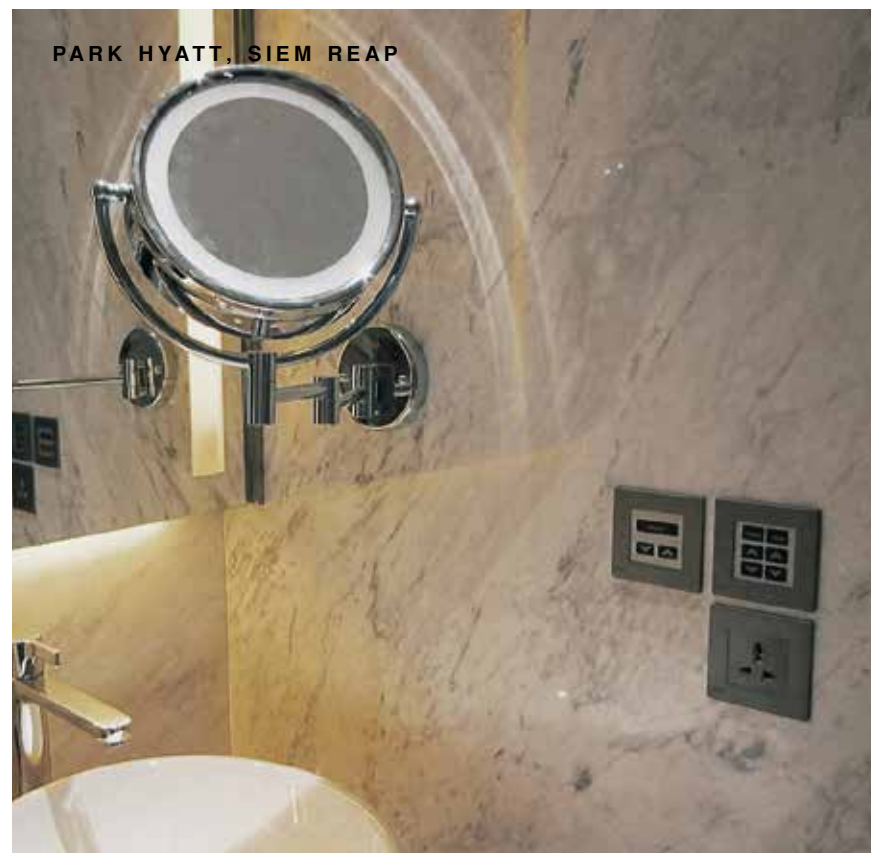
Multi-way switching for full function control anywhere in room

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

- Lighting control including mood effect, dimmer, night light, master on/off
- Room control including fan, curtain/blind, music
- Digital thermostat panel
- Do not disturb/make up room control or indication
- Doorbell activation



PUSH BUTTON SWITCH

The Push Button Switch series by Elecon comprises versatile, stylish and highly customizable components. Panels are available in a variety of colors and finishes to complement any interior style or motif. Features such as illuminated buttons and combined symbol/text indications make clear all functions and allow hotels to greatly enhance comfort and convenience.

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 device components as well as button and LED illumination
- Text language and symbol/icon type
- Finish (Metal/Matte/Glass/Sqtin)

Application

- Lighting control including mood effect, dimmer, night light, master on/off
- Room control including fan, curtain/blind, music
- Digital thermostat panel
- Do not disturb/make up room control or indication
- Doorbell activation



ROSEWOOD HOTEL & RESORT, PHUKET

GLASS SERIES

ELECON's Glass Series fuses advanced switch technology and striking panel design. Each switch's highly sensitive capacitive surface responds to the lightest pressure – and instantly the illuminated screen comes alive in bold colors, sharp images and easily legible text. Panel layouts are fully customizable according to symbol, text and color preference.

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 device components as well as button and LED illumination
- Text language and symbol/icon type

Application

- Lighting control including mood effect, dimmer, night light, master on/off
- Room control including fan, curtain/blind, music
- Digital thermostat panel
- Do not disturb/make up room control or indication
- Doorbell activation



LANCASTER, BANGKOK

GLASS SERIES : ROOM SIGNAGE

Glass Series exterior room signage features the same state-of-the-art technology combined with sleek styling as in-room panels.

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 device components as well as button and LED illumination
 - Text language and symbol/icon type
 - Service panel indicators

Application

Do not disturb/make up room indication
Doorbell activation

Technical Specifications

Button diameter – 1.7 cm
Maximum buttons per panel – 4
Cabling – TIEV 4 core
Power – 12 volt dc
Ambient temperature operation range – 0° to 40° C





ROOM ENTERTAINMENT

ELECON ACTIVE MULTIMEDIA HUB

ELECON AMH multi-source media hub offers the simplicity of requiring no more than a single HDMI cable from hub to TV. All source signals* including AV and VGA are converted to an HD signal and sent via HDMI. For guests, this means no need to access complicated menus via TV remote control in order to change source type – instead, any source switch can be made directly at the hub. Fixed size and function with customizable panel color. *Please note ELECON AMH provides USB device Play and Charge capability but a separate cable from hub to TV is required. Capability also requires compatible TV with CEC function. ELECON technicians will be glad to confirm compatibility with TV make and model.

Features

Stylish and Customizable Appearance

Hub components are customizable to each property's requirements for blending with hotel décor. Style features include new aluminum finish in range of colors. The hub's radiused panels likewise can be matched to that of major switch and socket brands for consistency.

Convenient Bluetooth Access

Advanced Bluetooth module provides quick connection for enjoying stereo music through TV sound system.

Multiple Audio/Video Interface

Hub provides VGA, AV, HDMI, USB and Bluetooth connectivity.

HD Conversion Via Single Cable

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 RJ-45 interface.

*Compatible TV with CEC function required.



OKURA PRESTIGE, BANGKOK



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. Hub panel capability can be tailored by adding or removing various connector types according to components present, while panel appearance is likewise fully customizable. Connection types include: universal power plug, HDMI, AV RCA, VGA, audio 3.5 mm, USB Play and Charge, telephone, and broadband internet. 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.



PLAZA ATHENEE BANGKOK,
A ROYAL MERIDIEN HOTEL



IPTV

IPTV is already very popular and widespread in Europe, the US and developed Asia Pacific countries. Many visitors to Thailand already have High Definition (HD) Digital TV in their home countries and they therefore feel disappointed by the poor analogue TV picture quality provided by most local Thai hotels.

Many international hotel management companies now insist on Digital TV services being made available to guests and also that all available local language TV channels must be supported. There are now 26 Thai Digital Channels (starting April, 2014, with more in the future) and it is the governments’ policy to promote a “digital future” for Thailand in all areas.

Advanced IPTV services developed exclusively for the hospitality industry.

Highlights:

- Digital IP streaming for all TV channels, High Definition* perfect picture quality
- More channel availability compared with old analogue TV systems
- Picture quality maintained across all rooms, no more amplifier or dB level adjustment problems
- Each MC5000 unit has a multi-port Ethernet Switch with Vlan Tag to support:
 - > Wired cable High Speed Internet Access
 - > Wireless High Speed Internet Access
 - > IP Phone (backbone)
 - > Smart TV Interface
- Mobile device APP (iOS and Android)
- Mobile Device Screen Mirroring Support (DLNA + Miracast)
- Control Lighting, Curtains and Air-Con from the TV and/or mobile device APP*
- Optional Z-Wave module to support wireless Z-Wave technology
- Simple integration with existing wall or desk mounted Media Hubs
- Optional Digital Video (Pay-Movie) On-Demand Server
- Interface with all major brands of TV (Hotel Mode TV’s recommended)
- Interface with all major brands of hotel Property Management System
- Simple installation and free hotel staff training

*SD content automatically upscaled
*For hotels using the Elecon RCU interface



Welcome Page



Main Menu



APP Download



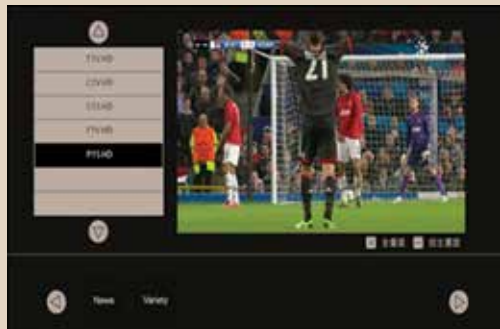
Screen Mirroring



Language Selection



Group Message



IPTV



Housekeeping Functions



Hotel Info



Daily Event



Room Service Ordering

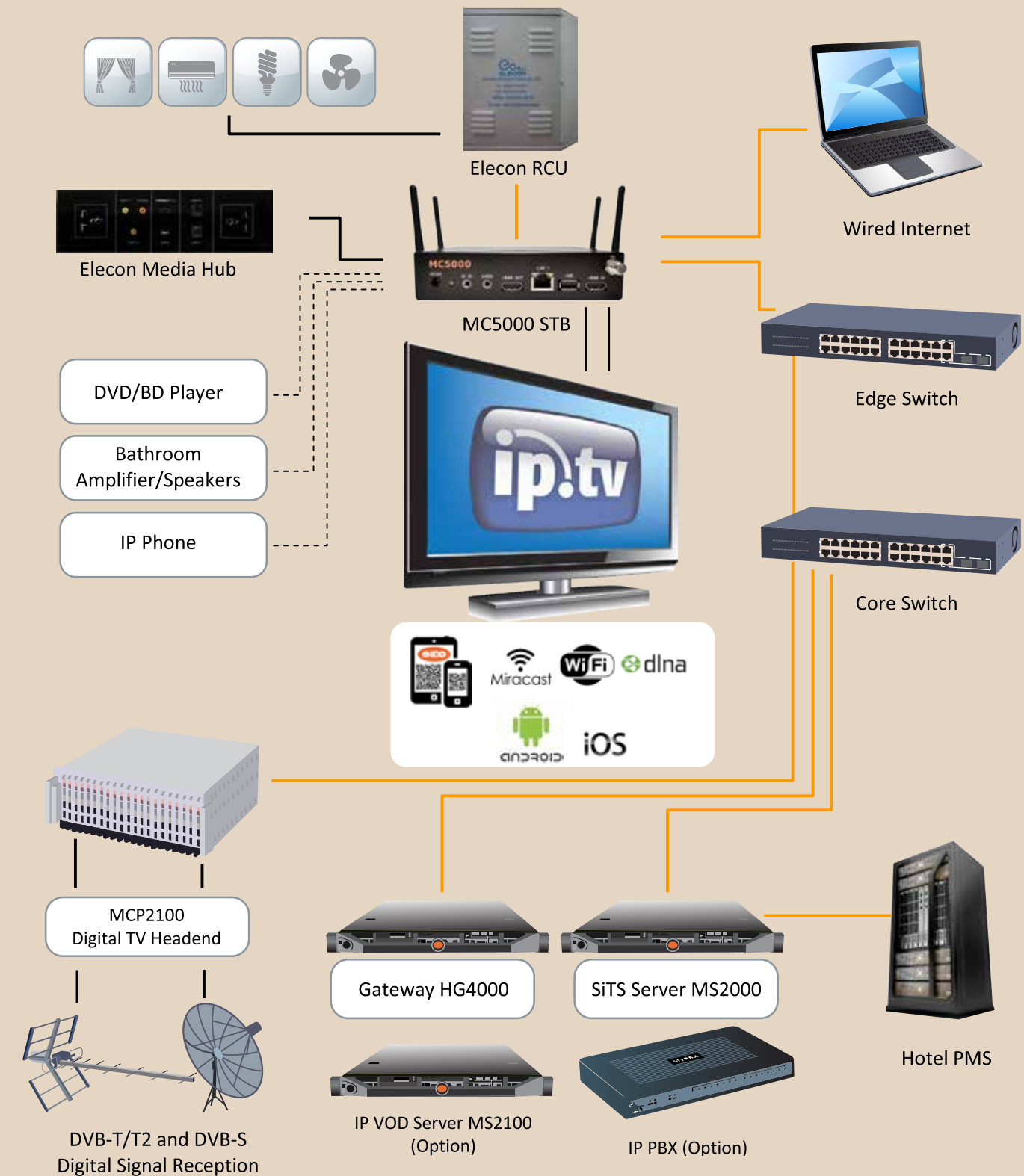


Shopping

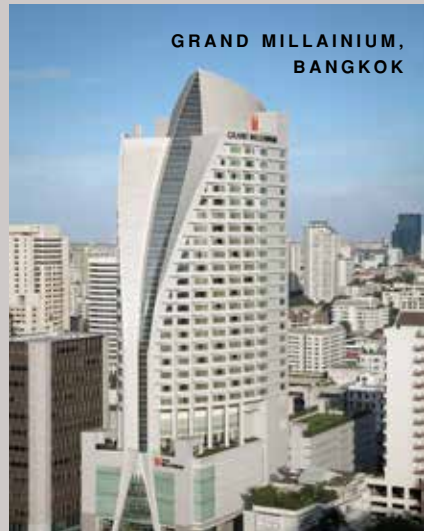
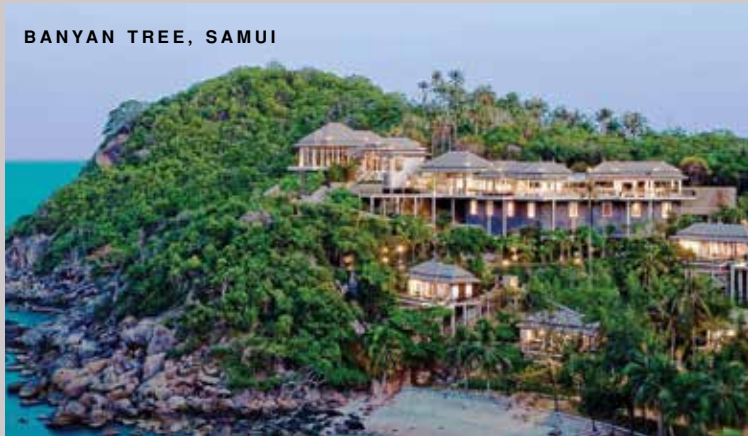
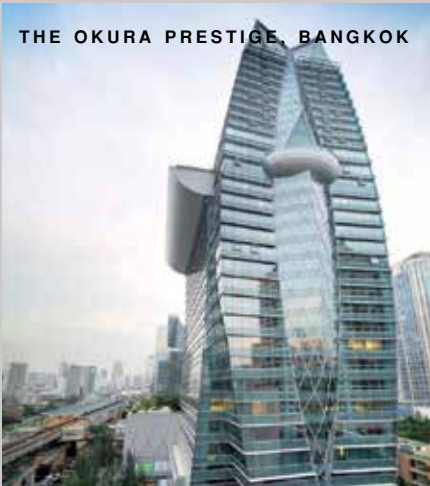


- On-Screen Direct Services:
 - > Hotel information, advertising and promotions
 - > Local Flight Information
 - > Global Headline News
 - > Global Weather
 - > Global Internet Radio and Music channels
- Hotel PMS Interface Services:
 - > Welcome Message (plus Welcome lighting scene from custom Elecon RCU interface)
 - > Messaging/Group Messaging
 - > Bill Review/Express Checkout
 - > Room Service/Shopping
 - > Guest Survey
 - > Language Selection
 - > Housekeeping Management Services (Room Status & Minibar)
- For new hotel builds there are many extra benefits and cost savings:
 - > No need to install a SMATV Coaxial network, Amplifiers, Splitters/Taps and cabling
 - > No need to install analogue RF modulators for each TV channel in the headend
 - > No need to install multiple UTP cables to every guestroom from the network switches
 - > No need to install multiple Ethernet switches for Internet, IPTV and guestroom WiFi

SiDC is a total solution (turnkey) supplier and developer of IP headend, STB hardware & software ensuring a more reliable installation and easier future support. SiDC has provided interactive TV solutions to the hospitality industry for 20+ years. Over 200,000 IPTV units are currently installed in the Asia Pacific region.



PROJECT REFERENCE



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