# ec... elecon

# DIGITAL DIMMER

# ELECON

Elecon international Co.,ltd.

Four seasons Hotel,Bangkok

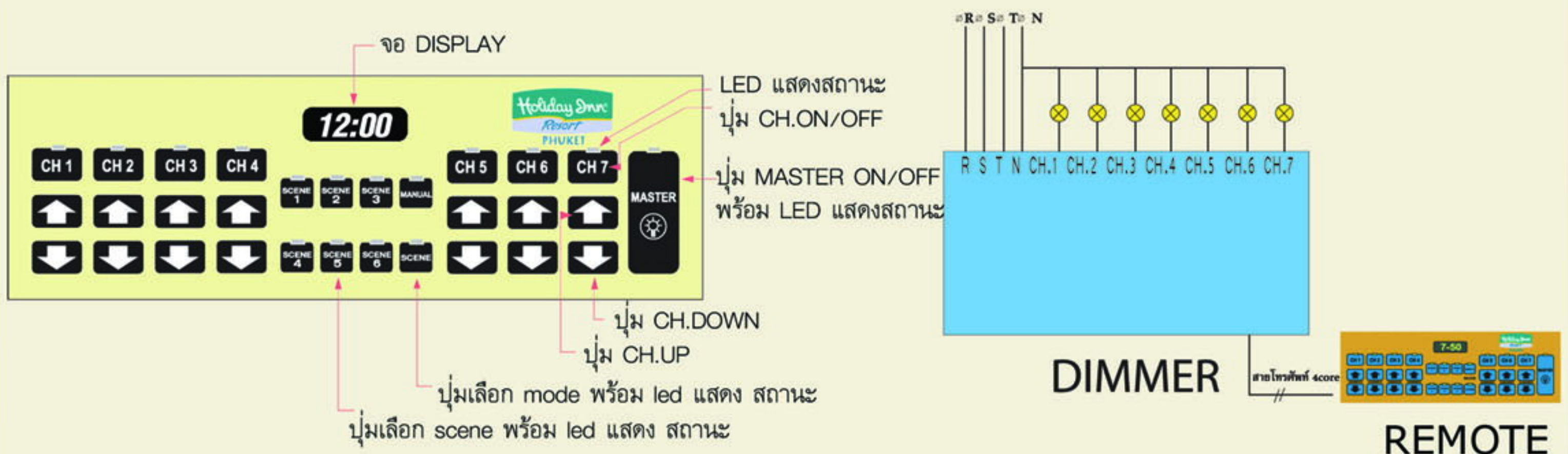# Lighting Control System

## Products can be made to order asper requirements.

➡️ **Spec Function**

1 เป็นระบบ **DIGITAL DIMMER** ควบคุมการทำงานด้วยไมโครโปรเซสเซอร์มีความละเอียดในการ dim 256 step จาก 0–100 %

2 มีระบบป้องกันการ short circuit และ over load ด้วย **MINIATURE CIRCUIT BREAKER**

3 มีระบบระบายความร้อนด้วย heat sink และพัดลมอากาศ

4 มีการแยกวงจร Control ออกจากภาค Power ด้วย Opto Isolator (Isolation Voltage>7,500)

5 สามารถควบคุม load ได้ถึง 12 channel x 5000 w

6 สามารถใช้กับหลอด (หลอดไส้) Incandescent, Halogen lowvoltage, Tungsten, Fluorscent

7 ใช้ได้กับไฟ 1 Phase 2 Wires 220 VAC . 50 Hz หรือ Phases 3 Wires 220/380 VAC . 50 Hz

8 สามารถเลือก dim up/down on/off แต่ละ channel ได้อิสระ

9 สามารถตั้งโปรแกรม Scene ได้สูงสุด 12 โปรแกรม

10 สามารถตั้งโปรแกรม Fadetime ได้ตั้งแต่ 0–90 วินาที อิสระแต่ละ Scene

11 สามารถขยาย Channel dimmer ได้ด้วยการต่อแบบ Master/Slave โดยขยายได้สูงสุด 20 rack (120 channel)

12 สามารถต่อ Remote ได้สูงสุด 4 จุด

13 สามารถเพิ่มหรือลดความสว่างแบบ Group

* สำหรับ Load Fluorescent เป็น option

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## FUNCTION DIAGRAM (7 CHANNEL)

จอ DISPLAY

12:00

Holiday Inn Resort PHUKET

CH 1 CH 2 CH 3 CH 4 CH 5 CH 6 CH 7

SCENE 1 SCENE 2 SCENE 3 MANUAL

SCENE 4 SCENE 5 SCENE 6 SCENE

MASTER

LED แสดงสถานะ
ปุ่ม CH.ON/OFF

ปุ่ม MASTER ON/OFF
พร้อม LED แสดงสถานะ

ปุ่ม CH.DOWN

ปุ่ม CH.UP

ปุ่มเลือก mode พร้อม led แสดง สถานะ

ปุ่มเลือก scene พร้อม led แสดง สถานะ

R S T N

R S T N CH.1 CH.2 CH.3 CH.4 CH.5 CH.6 CH.7

**DIMMER**

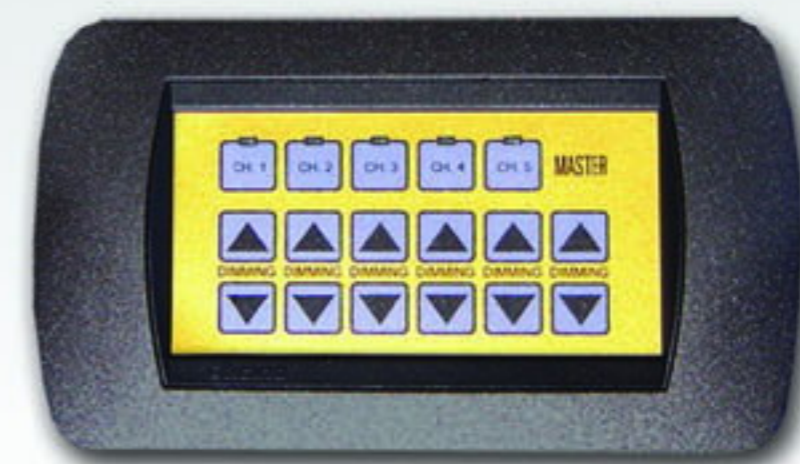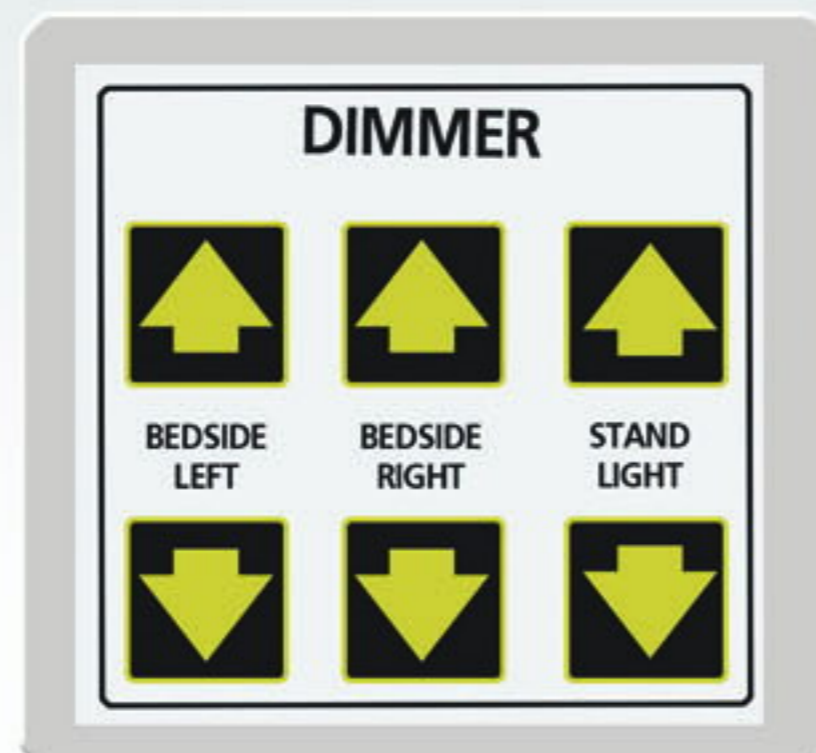สายโทรศัพท์ 4core

7-50

**REMOTE**

# FEATURES AND FUNCTION

Support a maximam of 10,000-watt dimmer capacity with 8 channel, each channel supplying a maximum of 3000 watt
Adjustable up to 256 steps from 0-90%
Adjustable up to 10 steps of fade time with 4 channels.

## DIMMER MODEL

DINING

DIMMER

CORRIDOR

Holiday Inn Hotel

DIMMER

DIMMER

BEDSIDE LEFT    BEDSIDE RIGHT    STAND LIGHT

CH. 1  CH. 2  CH. 3  CH. 4  CH. 5  MASTER

DIMMING DIMMING DIMMING DIMMING DIMMING

5 Channel X 2 KW and MASTER

## DIMMER PANEL

➡ Dimmimg lighting saves energy. Elecon digital dimmer creates an energy efficient environment, with up to 98 % of the corresponding unused lighting energy saved through dimming, and bulb life prolonged by 30 % or more because fading a lamp digitally is gentle on the filament than just switvhing it on or off.

## Software dimmer

➡ Programming / Operating Software Runs using an RS485 Interface. Any circuit can be set as any physical channel and programmed to be on any phase, in any zone or set as a switch or dimming channel. For each scene, the circuits can be programmed, temporarily re-adjusted, modified, set for on/off switching

# SOFTWARE
# SAVING

Hall,The Sukhothai Hotel

*Soft-touch button for comfort*

# ELECON

## Elecon Digital Dimmer Features

Digital Dimming Controlled by Updeated Microprocessor

3 phase or single Phase dimming or Switching

Independent Dim or Non–Dim Function

Variable Fade Rates from 0.5 Seconds (to gradually turn lights on/off)

3 Data Buses Including • RS 485 • RS 232 • Remote Control

Internal Programming by LED Control Panel

24–Hr 7–Day Built–in Event timer (Battery backed)

Main voltage compensation and voltage stabilization

Filament Preheat can be selected on a per channel basis

Operation setting from internal or Frontal control panel

Compatible with incandescent, Halogen, High pressure sodium, Mercury and Fluorescent

LED indicator display of load system on a per channel

Solid state thyristor phase power control system (SCR back to back)

Programming and operation from :
- LED control panel
- Remote control

Automatic switch to set master for manage system control

LED indicator display of load system on a per channel

Voltage isolation between the control system and power system is ensured safety by the opto–isolator

RFI suppression noise protection system employing thr toroid choke and R–C network

System is protecte from excess power  or short circuiting by maniature circuit breaker
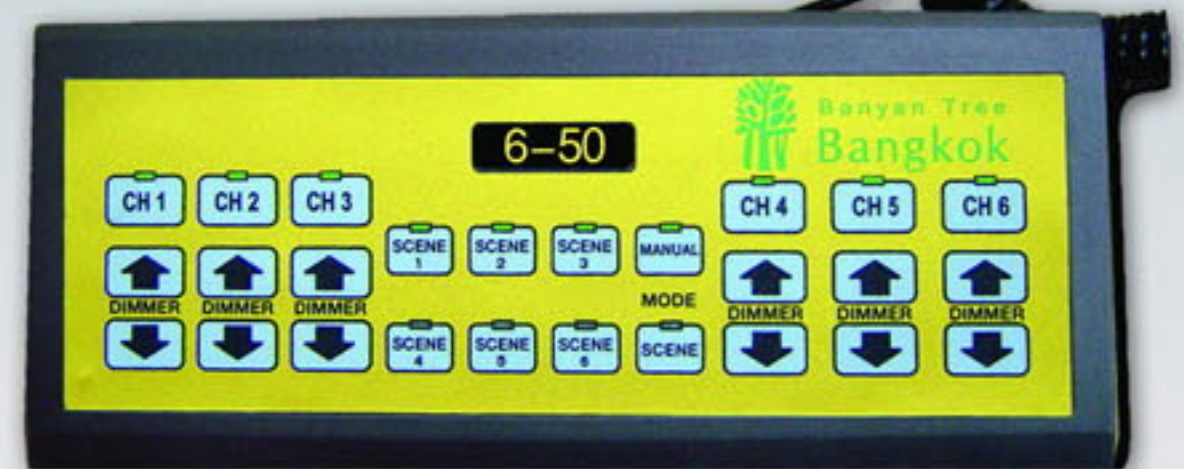
45'c maximum ambient temperature for 100% duty cycle

## TYPE : DIMMER



### WALL MOUTHED

Holoday Inn Resort, Phoket



### PROTABLE

BANYAN TREE, Bangkok

LIGHT


BRIGTH


SMOOTH


ATMOSPHERE
COMFORTABLE

# Light & Smooth

# ELECON



Scene Panel

## Digital Dimmer is designed to control dimmer for :

- Hotel & Commercials
- Spa
- Convention Center
- Cinemas
- Broadcast studios

- Residentials
- Restaurants
- Conferences
- Entertainments
- Cruise ships

# Technical Specification

| | |
|---|---|
| Type of dimmer | Electronic phase Control Dimmer |
| Channel | 2 / 4 / 6 / 8 Channel |
| Power Input | 1 Phase 2 Wires 220 VAC.50 Hz<br>3 Phase 4 Wires 220/380 VAC.50/60 Hz |
| Load Output | 1 KW    2 KW    5 KW    10 kw |
| Input Control | Digital  :  RS-485 or dmx-512<br>Analog :  0-10 VDC.<br>Scene  :  Program by microprocessor scene panel |
| Display | Led 7 - Seqment, 4 Digit |
| Over heat protection | Step 1 : Fan on<br>Step 2 : Dim down automatic<br>Step 3 : All dimmer off |
| Short circuit protection | By Mcb |
| Surge protection | |
| Ambient Temperature | 45'c maximum, generously rated heatsinks limit internal temperature |

Electronic Ballast

Low voltage halogen lamp

Incandescent

Fluorescent

Four seasons Hotel,Bangkok

22°c

# ELECON

convention CENTER

Soft-touch control

# Digital Dimmer

address : http//:www.elecon.co.th    ▾ ▶ GO ⌃
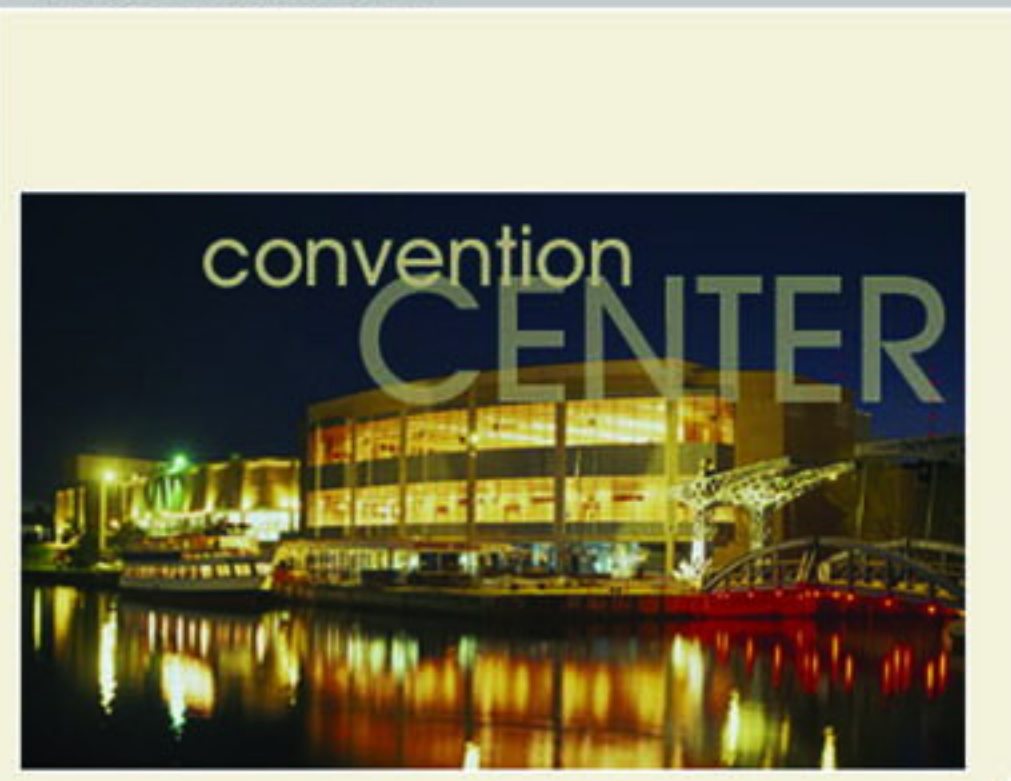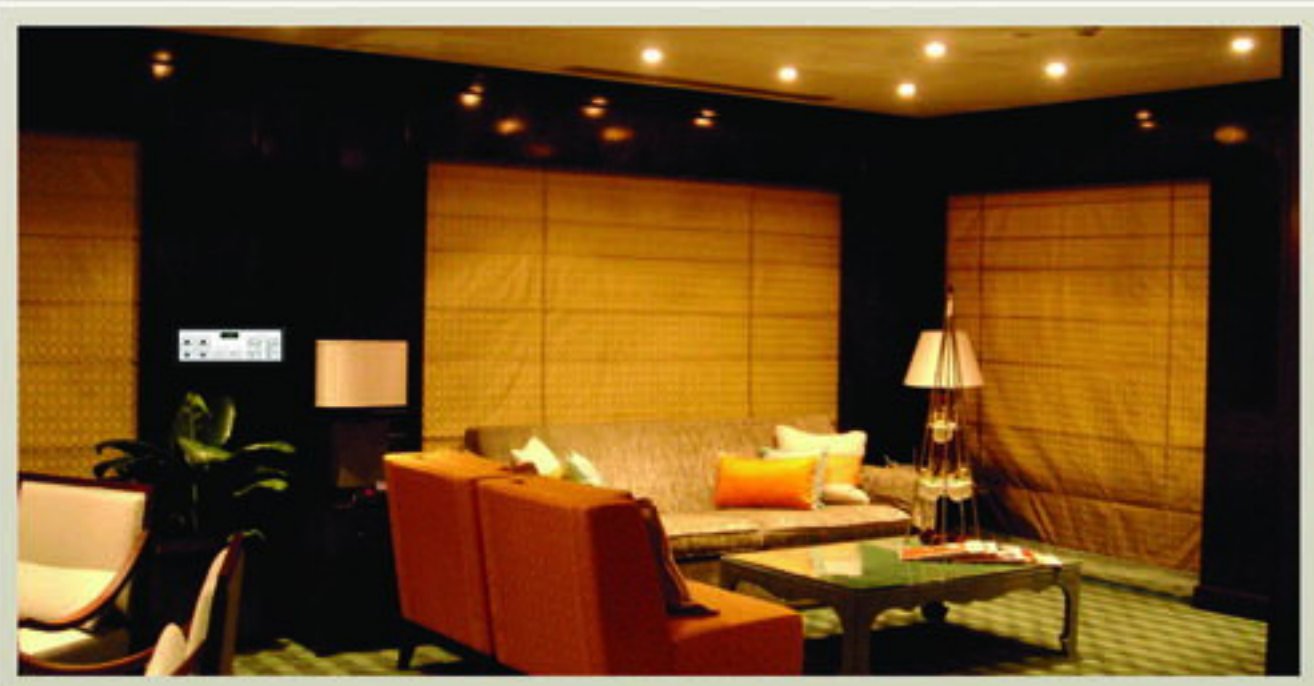
**D**igital and micro-controller-based , ELECON
Digital Dimmer promises to bring forth comfort,
ease and style to your guests by just
on click of a button.

**+** From the latest of technologies
comes the state-of-the-art

Best for hotel, resorts, restaurants and
even right in the heart of your own homes.

**+** Soft-touch button for comfort, Ease and Style

The LANDMARK , Bangkok

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