



# KeyLock Intelligent Security System

## Hardware

### Main Controller

- Microprocessor @ 29.4MHz
- Onboard 32M SRAM (include Program, Runtime memory, Web Server)
- 16 digital inputs, 8 digital outputs
- Communication: 1x Ethernet(10Base-T), 2x RS232, 1x RS485
- Battery backup Real Time Clock (RTC)
- Watchdog Timer

### LCD Panel

- High resolution LCD
- ASCII font: 16 characters x 4 rows
- Chinese font: 8 characters x 4 rows
- Graphical icon & multi-language support (on market demand)
- User-friendly GUI: dynamic cursor position follow user input; highlight with inverse background and font color; multiple selections with up, down, left, right keys
- Classical white color backlight
- Flashing backlight to alert user if any alarm or notification
- On RS485 comm link

### Keypad

- High quality Silicone rubber keys
- 0~9 ten numeric keys
- \* & # keys represent backspace and enter
- 4 function keys placed below dynamic graphical icons to represent up, down, left, right, select and return
- Beeper integrated
- Each key pressed will beep once
- Beeper will alert user when wrong input detected
- On RS485 comm link

### Key Distribution Interface

- Address decoder, each interface has unique ID to main controller
- Key units commander and states collector
- Maximum carry 10(rows) x 8(columns) = 80 keys (4 Key Distribution Interfaces in a system = 320 keys)
- On RS485 comm link

### Key Unit

- High sensitive IR sensor to update key position
- High security camlock (Bilock or ABA) and guarded by stainless steel solenoid
- Temper proof keyring
- One LED states indicator – Red, Green, Orange



### Pictures Recorder

- High quality color CCD camera
- IR LED & Low Lum (0.01 Lux)
- Wide-angle Lens (2.5mm, 2.9mm, 3.5mm)
- 5000 Alarm/Active Recorders X 3 Picture per Record, Total 15,000 Picture (Expandable)
- Day/Night Working Mode with Schedule

### Power Supply & Battery Charger

- Power supply unit: 12Vdc +15%, Current/Power Consumption by Product Model
- Battery: 12V, Lead Acid Fiamm Battery, Capacity by Product Model
- Power Down Detector & Battery Auto Cut-in
- Battery Auto Checking & Battery Low Auto Cut-off
- System Battery Backup: Standby Mode more than 24Hrs; Active mode than 20 Times

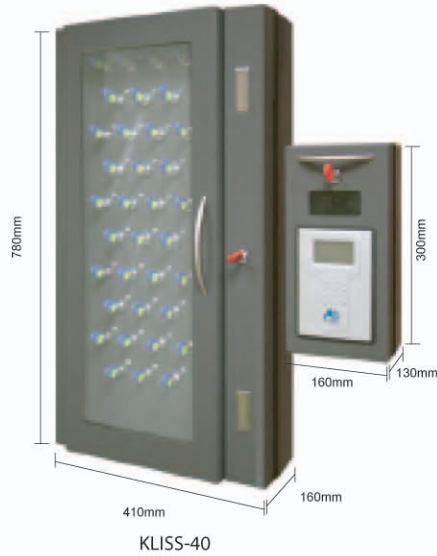
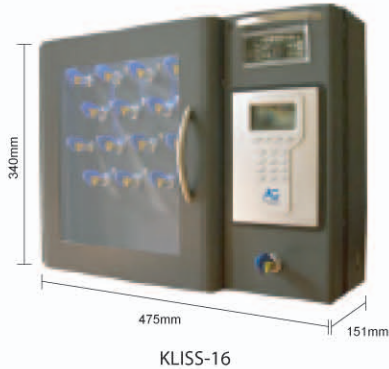
### Cabinet

- Body: 1.5 mm Steel Plate
- Front Door: Tamper Proof Glass Window
- Electric Strike (Power off to lock)
- Door Contact Sensor
- Back Door Tamper Switch
- Master Key for Emergency Release Keys
- Super Bright LED Night Lighting

### GSM Modem

- Dual band – GSM900 & GSM1800
- SMS notification to admin when alarm occurs
- Repeat SMS notification until admin reply confirmation
- SMS reminder to user when withdrawal key expired
- Temporary user setup by admin via SMS
- Able to send 5 SMS message upon activation for each alarm

## Cabinet Dimension



### Card Reader

- Proximity Card Reader
- Contactless Smart Card Reader
- Weign Format Reader
- PS21/EZlink Reader  
(Applicable in Singapore only)

### Fingerprint Reader (Optional)

- High resolution optical sensor
- The fingerprint ID stored in user database
- On RS485 comm link

### Option

- Alarm Siren/Light

## Software

### Embedded Application/Control Software

- Built Web Pages for System Setting, Configuration, Monitoring & Management

### Operation Feature

- Keypad – ‘admin’
  - Change system time
  - Change pin himself
  - Create new user
  - Edit existing user
    - Change user id
    - Change user pin

- Change key group
- Change schedule
- Change maximum key allowed
- Change maximum hold period
- Disable user
- Remove user
- Edit key group
  - Add / remove key from group
  - Remove all keys in group
- Edit schedule
  - Edit weekday and special day timing
  - Remove all timings
- Edit system
  - Edit number of cabinet and key
  - Edit TCP / IP
- Keypad – ‘user’
  - Change pin himself
- Web – ‘admin’
  - Check key status
  - Check records
  - Add / edit / remove / disable user
  - Add / edit / remove key info
  - Add / edit / remove key group
  - Add / edit / remove schedule
  - Edit system
- Web – ‘user’
  - Check key status
  - Check records himself