

Hardware

Controller

CPU

- ARM9 Series Micro-Processor
 - ARM® High-performance 64-bit Instruction Set
32-bit Instruction Set
 - Thumb® High Code Density 16-bit Instruction Set
 - 200 MIPS at 180 MHz, Memory Management Unit
 - 16-KByte Data Cache, 16-KByte Instruction Cache, Write Buffer
- Additional Embedded Memories
 - 16K Bytes of SRAM and 128K Bytes of ROM
- System Peripherals for Enhanced Performance
 - Enhanced Clock Generator and Power Management Controller
 - System Timer Including Periodic Interrupt, Watchdog and Second Counter
 - Real-time Clock with Alarm Interrupt
- Ethernet MAC 10/100 Base-T
- USB 2.0 Full Speed (12 Mbits per second) Device Port
- Four Universal Synchronous/Asynchronous Receiver/Transmitters (USART)

Memories

- NOR FLASH: 2MB on board
- NAND FLASH: 32MB on board
- SD Card: 128M ~ 1G portable card socket

Time Clock

- Battery backup Real Time Clock (RTC)
- Permanent Calendar (Second, Hour, Day, Month, Year)

Operation Panel

LCD Display

- High resolution LCD
- ASCII font: 16 characters x 4 rows; Chinese font: 8 characters x 4 rows
- Classical white color backlight
- User-friendly GUI: dynamic cursor position follow user input; highlight with inverse background and font color; multiple selections with up, down, left, right keys

Keypad

- High quality Silicone rubber keys
- 0~9 ten numeric keys; 【&】 and 【#】 keys represent backspace and enter
- 4 function keys placed below the LCD window to tally the dynamic graphical icons that are displayed on the LCD
- Beeper integrated



Card Reader

- Standard
 - Mifare Proximity Card
- Optional
 - HID Proximity Card
 - EM Proximity Card
 - EZ-Link Proximity Card
 - Fingerprint
 - Fingerprint + Mifare Proximity Card
 - Connect to any third party 32 bit Card ID reader with wiegand port

Integrated IP Camera

- Capture user photo image
- Wide-angle lens
- Infra-red redeeming light

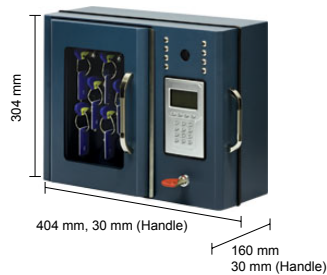
GSM Modem

- Dual band – GSM900/1800
- SMS notification to config user when alarm occurs or system failure
- SMS reminder to user when withdrawal key expired
- Able to send the SMS message up to 5 users upon activation for each alarm

Key Slots Cabinet

- Key-Slots Capability
 - 8 Key-slots
 - 16 Key-slots
 - 40 Key-slots
- Security Guarantee
 - Body: 1.5 mm Steel Plate
 - Key-Slots are made of high security camlock (Bilock)
 - Tamper proof key ring with laser engraved number
 - Key-Slots Door: Tamper Proof Glass Window; Electric Strike (Power off to lock), Door States Sensor
 - Maintenance Door: High security mechanical lock (international patented), Door States Sensor
 - Master Key for Emergency Release of all keys number
- Super Bright LED Night Lighting
- 3 Color LED indicate the Key-Slots states

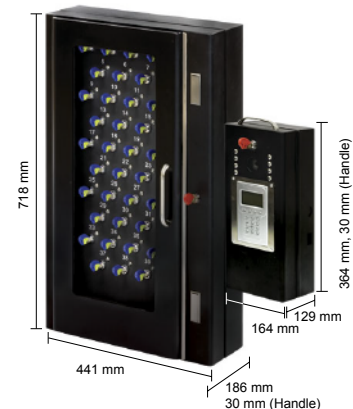
Cabinet Dimension



KLISS-8



KLISS-16



KLISS-40 & K-Master

System Capability

- 5,000 users
- Manage up to 6,400 keys
- 320 general key groups and 64 multi-user access groups
- 64 time schedules and 64 special days schedules
- 10,000 transactions
- 10,000 user photo images

Power Supply & Battery Charger

- Power supply unit: 12Vdc +15%
- Battery: 12V, Lead Acid Fiamm Battery
- Power Down Detector & Battery Auto Cut-in
- System Battery Backup: Standby Mode more than 6hrs; Active mode about an hour

Software

- Embedded Linux OS and application software and database
- Built web pages for system setting, configuration, monitoring & management

Operation Features

Keypad Access

Admin Log-In

- Authorize to change user personal pin
- Edit system
 - Edit TCP/IP address
- Withdraw & return any key
- Tracking any withdrawn key details
 - User name or ID
 - User contact number

User Log In

- Change personal pin
- System check
 - Check TCP / IP address
- Withdraw & return the authorization key
- Tracking withdrawn authorization key that is not available
 - User name or ID
 - User contact number

Web Access

Super Admin Log In

- Add/edit/remove admin
- Config/edit/system & box info
- Change super admin login password
- Initialize system
- Config system time, date, IP address, key withdraw/return mode etc

Admin Log In

- Check key status
- Check/print records
- Add/edit/remove user
- Edit key info
- Add/edit/remove general key groups and multi-user access groups
- Add/edit/remove general schedules and special days schedules
- Edit system
 - Upload & download database & record

User Log In

- Check key status
- Check/print personal records
- Change personal password
- Check the group & schedules personal setting