

keysystem.ai key management system **ELITE (G5)**

Electronic Key Management System (60 / 66 / 72 Slots)

About Keysystem.ai

Keysystem.ai represents an advanced solution for key management, integrating embedded management software technology to streamline control and monitoring of key movements within buildings and facilities, or over an IT network. Its primary aim is to fortify security measures without the need for constant manual oversight. Crafted from robust materials, Keysystem.ai is resilient against wear and tampering, ensuring



sustained performance. Keysystem.ai comprehensive monitoring guarantees heightened security protocols. iKLAS boasts a user-friendly interface, making it accessible and efficient across all industries. Its adaptability and reliability make it an indispensable asset in maintaining security and efficiency within diverse environments.

Key Benefits

- Enhance accountability & security
- Eliminate manual key movement recording/tracking
- Increase productivity
- Efficiently track keys
- Comply with physical access control standards
- Comply with IT cybersecurity standards

Key Features






- Facial recognition ready with 7" colour touchscreen interface
- User's photo image footage captured for security and verification upon access
- Built-in SMS/email alerts (optional)
- Built-in key tag (return) reader
- Choice of access card readers: Mifare, HID, Desfire EV1 & Desfire EV2. CEPAS & SSID for Singapore only.
- Choice of access: user ID + PIN, fingerprint, facial recognition with liveness detection.
- Choice of 10 colours for encrypted RFID key tags; provides for easy differentiation and increased visibility.
- Embedded key management software
- Real-time information on key status
- Manual bypass for emergency access
- Tamper-proof and serialised key rings & cable seals
- Supports up to 5,000 users, 320 key groups, 64 time schedules, 20,000 transactions & 100,000 user photo images



Controller

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|------------|--|
| CPU | <ul style="list-style-type: none"> Rockchip RV1109 processor and Dual Core Cortex-ARMv7 Ethernet MAC 10/100 Base-T Operating System: Linux |
| Memory | <ul style="list-style-type: none"> On Board <ul style="list-style-type: none"> FLASH: 8GB EMMC RAM: 1GB SD Card: 16G portable card socket |
| Time Clock | <ul style="list-style-type: none"> Battery Back-up Real Time Clock Hardware Clock System Clock is automatically synchronised upon resumption of power |

Operation Panel

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|---|---|
| TFT 7" Industrial Grade Touchscreen Interface | <ul style="list-style-type: none"> Size: 7 inch Resolution: 1280(RGB) x 800 Interface MIPI Display: 150 x 95 mm Back Light: White LED x 20 Touchscreen: Yes |
| Authentication Devices Options | <ul style="list-style-type: none"> Comply to 2FA (card + PIN), with option to include other biometric authentications Standard: Mifare with PIN access International : Mifare Classic, HID Proximity, HID iCLASS, DESFire EV1, DESFire EV2 Singapore : SSID & CEPAS Biometric : Onboard : Facial recognition with liveness detection (FR) (Activation license key/fees apply) Options : Fingerprint reader, touchless biometric device, auto iris recognition device 3rd party devices : Supports 32-bit devices with Wiegand port <div>      </div> <div> <div>DEFAULT</div> <div>LICENSE</div> <div>OPTIONS</div> <div>OPTIONAL</div> <div>OPTIONAL</div> </div> |
| Integrated Devices | <ul style="list-style-type: none"> Built-in color camera : Binocular 2-million-pixel camera with automatic exposure lighting, Dual Lens Capture user photo image footage Built-in key tag (return) reader |
| GSM Modem (optional) | <ul style="list-style-type: none"> Dual band - GSM900/1800 SMS notification for system alerts & alarms |

Cabinet Key Positions

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|-------------------|---|
| Cabinet | <ul style="list-style-type: none"> Key-slots capacities <ul style="list-style-type: none"> Available in 7 sizes: 24/ 48/ 66/ 96/ 132/ 192/ 252 slots Security Guarantee <ul style="list-style-type: none"> Body: 1.5 mm steel plate Fail-secure: In the event of power outage, keys will be locked in position to prevent unauthorised withdrawal. Key-cabinet door: tamper-proof window; electric solenoid (power off to lock); door sensor Master key for the emergency release of all keys 2-colour LED indicator per slot Epoxy Powder Coating |
| System Capacities | <ul style="list-style-type: none"> 5,000 users & manage up to 4,032 keys 320 general key groups and 64 multi-user access groups 64 time schedules; 20,000 transactions & 100,000 user photo images |
| Power Supply | <ul style="list-style-type: none"> Power supply unit: 12Vdc + 15%; Battery: 12V Lead Acid Battery Power-down detector & battery auto cut-in System battery backup: standby mode (up to 6hrs); operating mode (up to 120 transactions) |

- Embedded Linux-based key management software (KMS) with SQL database
- Platform for key system configuration, monitoring, & management
- It is highly secured, complies with IT password policies, up to 8 admins & 2 senior admins
- Real time key status update
- Remote configuration and monitoring of key system
- Audit trail & transaction records available for fraud management & report-generation
- Automatic or predefined upload and download of information through network
- OPTION: Central Control Management Software (CCMS-Hub) supports single sign-on (LDAP, AD, Windows local account)

Note: Integration with 3rd party system supported via RestAPI.

Built-in Colour Touchscreen Interface

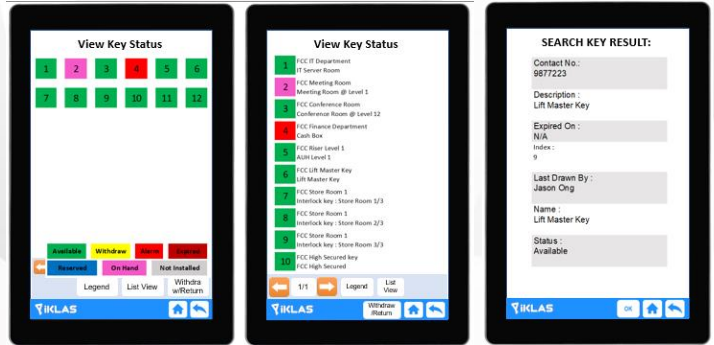
| | |
|-------|--|
| Admin | <ul style="list-style-type: none"> • User Management (add/edit/delete) • TCP/IP address Management • Withdraw & return any key • Track withdrawn key details • View & Export Key Movement Report via USB (in MS-Excel/ .pdf format) |
| User | <ul style="list-style-type: none"> • Change personal pin/ OTP/ key search/ multi access • Withdraw & return the assigned key(s) • View the list of keys authorised for withdrawal • View the status of authorised keys • Provides information on user if desired key has been withdrawn by another user |

Embedded Key Management Software Features

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|-------------|---|
| Super Admin | <ul style="list-style-type: none"> • User & Key Management (add/edit/delete) • Configure/edit system & box information • Change super admin login password • Configure system time, date, IP address, key withdraw/return mode etc |
| Admin | <ul style="list-style-type: none"> • Check key status; check/print records • Add/edit/remove users; edit key information • Add/edit/remove general key groups and multi-user access groups • Add/edit/remove general schedules • Edit system <ul style="list-style-type: none"> › Upload data via CSV + download transaction records in MS-Excel and .pdf format |
| User | <div>User</div> <ul style="list-style-type: none"> • Check/print personal information • Change personal password • Check grouping & scheduling settings |

Certificate

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|----------------------|--|
| CE Mark | Certification No. 2025181011 |
| Standards Compliance | EN 55022:2006+A1:2007 (CISPR 22:2005+A1:2006), EN 61000-3-2:2005+A1:2008 (IEC 61000-3-3:2008) EN 55024:1998 + A1:2001+A2:2003 (CISPR24:1997+A1:2001+A2:2002) IEC 61000-4-2:2008, IEC 61000-4-3:2010, IEC 61000-4-4:2004+A1:2010, IEC 61000-4-5:2005, IEC 61000-4-6:2008, IEC 61000-4-8:2009, IEC 61000-4-11:2004 |



| MODEL | iKAS-G5 60/66/72 |
|---------------------------|---|
| Input Voltage | 110/240VAC |
| Maximum Input Current | 3A/115Vac, 2A/230Vac |
| Frequency | 50/60Hz |
| Back-Up Battery | 12V/7Ah |
| Standby in battery mode | Up to 6hrs |
| Operating in battery mode | Up to 120 Transactions |
| Operating Temperature | 10°C to 40°C |
| Humidity | <95% |
| Size | (W) 630mm (H) 855mm (D) 220mm |
| Weight | 53KG |
| Max. Number of Key Slots | iKAS-G5 60/66 : 60 key slots per cabinet (10 rows of 6) iKAS-G5 66/66 : 66 key slots per cabinet (11 rows of 6) iKAS-G5 72/66 : 72 key slots per cabinet (12 rows of 6) |
| Operating System | Linux |
| Interface | TCP/IP |