

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

Electronic Key Management System (120/ 132/ 144 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

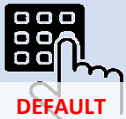
- Facial recognition ready with 7" colour touchscreen interface
- User's photo image footage captured for security and verification upon access
- Built-in SMS/email alerts (optional)
- Built-in key tag (return) reader
- Choice of access card readers: Mifare, HID, Desfire EV1 & Desfire EV2. CEPAS & SSID 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

CPU	- Rockchip RV1109 processor and Dual Core Cortex-ARMv7 - Ethernet MAC 10/100 Base-T - Operating System: Linux
Memory	- On Board - FLASH: 8GB EMMC - RAM: 1GB - SD Card: 16G portable card socket
Time Clock	- Battery Back-up Real Time Clock - Hardware Clock - System Clock is automatically synchronised upon resumption of power

Operation Panel

TFT 7" Industrial Grade Touchscreen Interface	- 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	- 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      DEFAULT LICENSE OPTIONS OPTIONAL OPTIONAL
Integrated Devices	- 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)	- Dual band - GSM900/1800 - SMS notification for system alerts & alarms

Cabinet Key Positions

Cabinet	- Key-slots capacities - Available in 7 sizes: 24/ 48/ 66/ 96/ 132/ 192/ 252 slots - Security Guarantee - 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	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	- 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

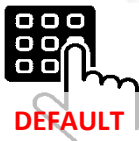
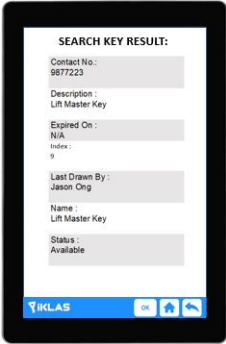
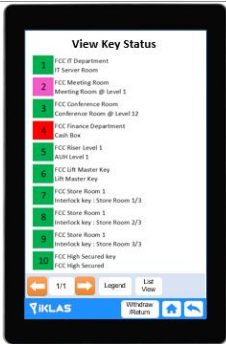
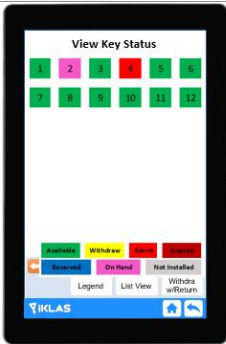
Admin	• User Management (add/edit/delete) • TCP/IP address Management • Withdraw & return any key • Track withdrawn key details • View & Export Key Movement Report via USB (in MS-Excel/ .pdf format)
User	• Change personal pin/ OTP/ key search/ multi access • Withdraw & return the assigned key(s) • View 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

Super Admin	• 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	• 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 › Upload data via CSV + download transaction records in MS-Excel and .pdf format
User	User • Check/print personal information • Change personal password • Check grouping & scheduling settings

Certificate

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



DEFAULT



OPTIONS



LICENSE



OPTIONAL



OPTIONAL

MODEL	iKLAS-G5 120/132/144
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) 899mm (H) 855mm (D) 220mm
Weight	65KG
Max. Number of Key Slots	iKAS-G5 120/132 : 120 key slots per cabinet (10 rows of 12) iKAS-G5 132/132 : 132 key slots per cabinet (11 rows of 12) iKAS-G5 144/132 : 144 key slots per cabinet (12 rows of 12)
Operating System	Linux
Interface	TCP/IP