

## Main functions of security racks

- Fingerprint/smart card (YNRF) or smart card (YNRC) authentication device is a standard feature on a 19-inch rack.
- Automatically saves up to 1 million records of operator and time of access and details (event) in authentication device (YNRF).
- Authentication conditions can be set for each rack and managed individually or in groups.
- Remote monitoring via network for up to 1,000 units on host PC.
- All functions including electric lock control relay and memory integrated in a compact body.
- Management software compatible with major Windows OS.
- Compatible with Mifare, Felica, NCF (contactless, proximity card).
- Internal lock handle locks and unlocks rear door and side plate together.



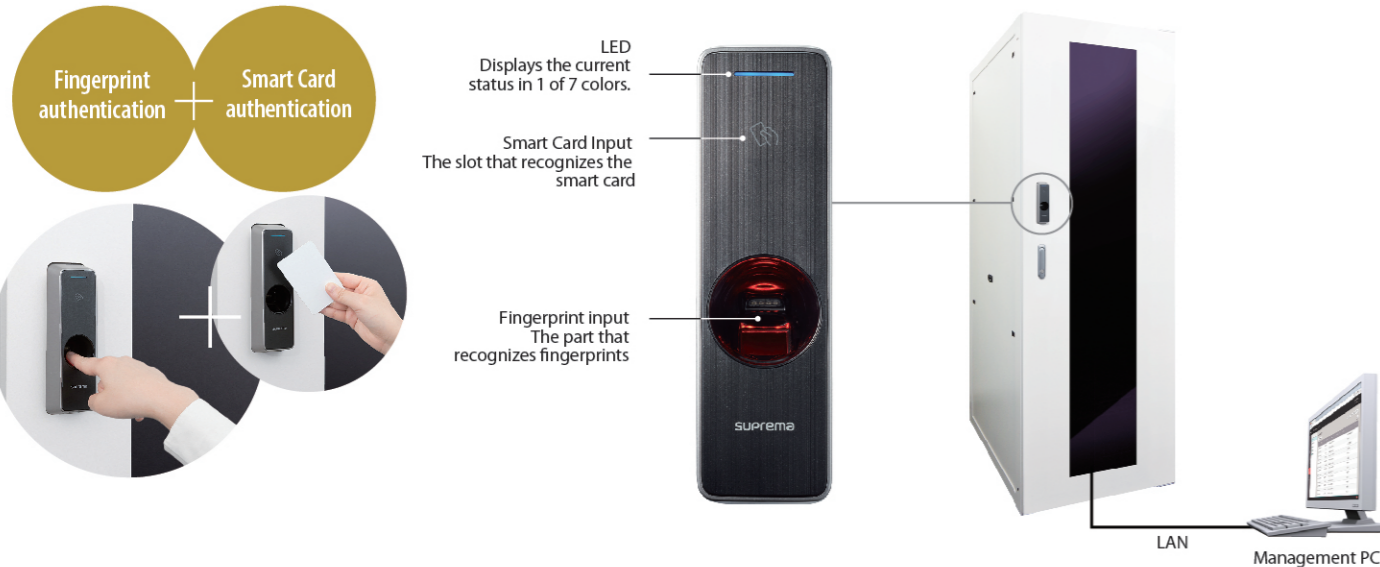
Internal lock handle mechanism

## YNRF

### Fingerprint Security Rack

#### Security solution with fingerprint authentication and smart card authentication

- Enrolls 500,000 user fingerprints and smart cards enabling various ways of implementation for administrators and users.
- Management software manages up to 1,000 units of racks.
- Improves security level by combining fingerprint and smart card as desired to set up double authentication function
- Authenticates in less than 1 second. Top level authentication speed in the world, even with 100,000 enrolled fingerprints.

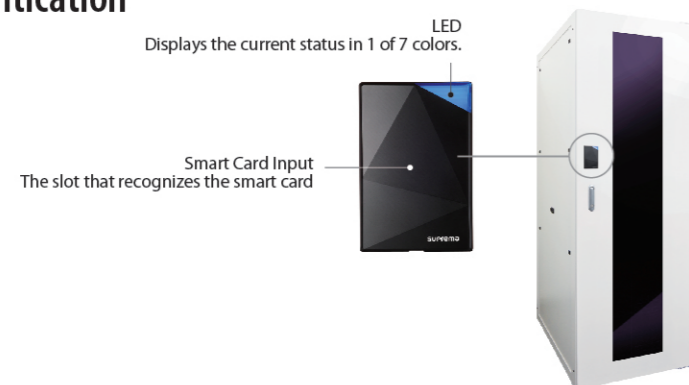


## YNRC

### Smart Card Security Rack

#### Security solution with smart card authentication

- Enrolls 50,000 smart cards.
- Various ways of implementation for administrators and users.
- Card reader links directly to a fingerprint authentication device.
- double authentication function using two smart cards.



Smart Card authentication

## SECURITY RACK YNRF/TNRC series

YNRF·YNRC

Width	Depth	Height	Valid units	Weight (kg)	Security Rack YNRF fingerprint authentication and smart card authentication	Security Rack YNRC smart card
600/700/800	800	1500	31	99	YNRF(6/7/8)-8015-(A/S/HP/G)	YNRC(6/7/8)-8015-(A/S/HP/G)
		1700	35	107	YNRF(6/7/8)-8017-(A/S/HP/G)	YNRC(6/7/8)-8017-(A/S/HP/G)
		2000	42	118	YNRF(6/7/8)-8020-(A/S/HP/G)	YNRC(6/7/8)-8020-(A/S/HP/G)
		2100	45	123	YNRF(6/7/8)-8021-(A/S/HP/G)	YNRC(6/7/8)-8021-(A/S/HP/G)
		2200	47	126	YNRF(6/7/8)-8022-(A/S/HP/G)	YNRC(6/7/8)-8022-(A/S/HP/G)
600/700/800	900	1500	31	103	YNRF(6/7/8)-9015-(A/S/HP/G)	YNRC(6/7/8)-9015-(A/S/HP/G)
		1700	35	112	YNRF(6/7/8)-9017-(A/S/HP/G)	YNRC(6/7/8)-9017-(A/S/HP/G)
		2000	42	123	YNRF(6/7/8)-9020-(A/S/HP/G)	YNRC(6/7/8)-9020-(A/S/HP/G)
		2100	45	128	YNRF(6/7/8)-9021-(A/S/HP/G)	YNRC(6/7/8)-9021-(A/S/HP/G)
		2200	47	132	YNRF(6/7/8)-9022-(A/S/HP/G)	YNRC(6/7/8)-9022-(A/S/HP/G)
600/700/800	1000	1500	31	110	YNRF(6/7/8)-1015-(A/S/HP/G)	YNRC(6/7/8)-1015-(A/S/HP/G)
		1700	35	118	YNRF(6/7/8)-1017-(A/S/HP/G)	YNRC(6/7/8)-1017-(A/S/HP/G)
		2000	42	131	YNRF(6/7/8)-1020-(A/S/HP/G)	YNRC(6/7/8)-1020-(A/S/HP/G)
		2100	45	135	YNRF(6/7/8)-1021-(A/S/HP/G)	YNRC(6/7/8)-1021-(A/S/HP/G)
		2200	47	139	YNRF(6/7/8)-1022-(A/S/HP/G)	YNRC(6/7/8)-1022-(A/S/HP/G)
600/700/800	1100	1500	31	115	YNRF(6/7/8)-1115-(A/S/HP/G)	YNRC(6/7/8)-1115-(A/S/HP/G)
		1700	35	124	YNRF(6/7/8)-1117-(A/S/HP/G)	YNRC(6/7/8)-1117-(A/S/HP/G)
		2000	42	135	YNRF(6/7/8)-1120-(A/S/HP/G)	YNRC(6/7/8)-1120-(A/S/HP/G)
		2100	45	141	YNRF(6/7/8)-1121-(A/S/HP/G)	YNRC(6/7/8)-1121-(A/S/HP/G)
		2200	47	144	YNRF(6/7/8)-1122-(A/S/HP/G)	YNRC(6/7/8)-1122-(A/S/HP/G)

Door type (A: Acrylic / S: Steel/ HP: Honuycompunching(Aperture76%) / G: Green original law selection acrylic. Standard color Ivory (6Y8.5/0.5) / White gray(N8.5) / black(N-1) \* ( ) Munsell, Leather satin



#### Authentication device specifications

	Security Rack YNRF (fingerprint authentication and smart card authentication)	Security Rack YNRC (smart card)
CPU	1.2GHzQuad core	533MHz 32bit
Memory	2GB Fash+256MB RAM	16MB Fash+16MB SDRAM
Fingerprint	500dpi Optical Sensor	-
Auchc Speed	Authenticate within is (100,000:1)	-
Max User registration	500,000	50,000
Max number of Logs Saved	1,000,000 events (built in memory)	100,000event (built in memory)
Automatic save of event log	Available	Available
AuthC Method		Card * 1
Double authC function		Card x 2
Network	TCP/IP, RS485	TCP/IP, RS485
Wiegand Connection	In or Out switchable	In or Out switchable
Departure relay	1ch	1ch
External sensor input port voltage	1	1
Voltage/Current	DC12V/600mA(max)	DC12V/250mA(max)
Power Supply	AC adapter	AC adapter, PoE
Size	W50xH172x43.5(mm)	W80xH120x11.4(mm)
Remote unlocking	Available by setting	Available by setting
Alarm for unauthorized unlocking/opening	Available by setting * 2	Available by setting * 2

\*1 Mifare,Felica,NFC \*2 Configure alarm sound on authentication device

'All of the system racks'

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# SECURITY RACKS

Fingerprint / Smart Card Authentication and IP Network Support  
Security System Racks that Protect and Manage Sensitive Information



Fingerprint authentication

Smart Card authentication

Small offices to large data centers

Remote monitoring of rack access  
at bases nationwide

YAMATO Tsushin Kogyo CO.,Ltd.



# SECURITY RACK Y NRF • Y NRC

Ensure a robust information security environment with fingerprint authentication and smart card authentication.

The advancement of information technology and network environment have made reliable information management a vital topic. The Y NRF series system racks are equipped with a highly reliable biometric authentication system using fingerprint to ensure a high degree of information security environment. Combine the smart card with fingerprint authentication as desired to manage opening/closing and access to the racks. Y NRC series also offers a lineup of products that are managed and operated by smart card authentication.

## ◆ Main merit Security Racks

- Security** Biometric authentication = Personal authentication makes "impersonation" impossible. Provides higher security than physical card keys.
- Safety** Event logs of opening/closing of doors and locked status monitored 24/7 from a host PC. (Use optional door sensor)
- Management** Capable of monitoring up to 1,000 units remotely from a host PC via IP network. management software sold separately
- Cost performance** Easily expandable from a single unit demonstrating excellent cost performance.
- Experience** Abundant operational expertise with data centers and reliable service cultivated over many years.

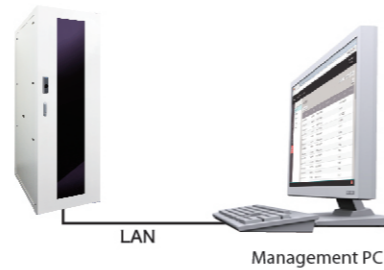


## Implementation of Security Racks

Build and operate a system from a single unit to a maximum of 1,000 units. IP network support enables centralized management of bases nationwide.

The authentication device is also equipped with a controller function, and can be easily expanded simply by connecting with a LAN cable. The system is configurable to meet the various operational needs in small offices to large data centers and branch offices in remote locations. Management software is also equipped with a full range of functions that offer robust management and monitoring measures.

**Step 1** ■ Implement from a single unit  
Easy to install - authentication device and electric lock are integrated with the rack. Keep initial cost down.



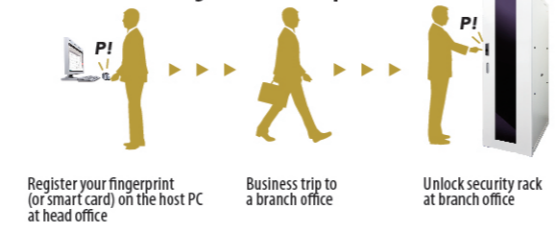
**Step 2** ■ Centralized management of multiple units  
Simply add units after initial installation. Up to 1,000 units can be collectively managed and operated based on the IP address by utilizing dedicated software and optional equipment.



**Step 3** ■ Centralized management of multiple remote locations  
Manage racks installed in multiple remote locations from a maximum of 100 locations by connecting authentication device to internal LAN or VPN. Reduce investment cost when expanding locations.



**case 1** Complete authentication registration on the host PC at head office and unlock security rack at branch office during a business trip.



**case 2** Manage opening/closing status of a security rack at a branch office from the host PC at head office.



## Management Software (Management software required separately during initial installation)

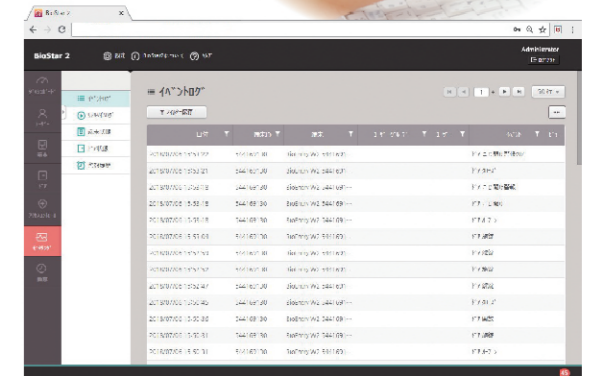
By installing the dedicated software, security management of multiple locations can be centralized on the host PC.

Automatic save	Remote location	Individual setting	File output	Alarm	Monitoring
Automatically save event logs such as time of access, opening/closing of door, and unlocking from authentication terminal to server database.	Remotely lock and unlock racks at remote locations.	Set access authority (valid, invalid) of enrolled fingerprint data individually by rack.	Output event log as CSV file.	Alarm activates when door is pried opened or unlocked unauthorized or when pre-configured time to leave door open has exceeded.	Monitor opening/closing of door

\*1 Setting required \*2 Alarm for unlock status can be set between 1 to 900 seconds

Standard software	supported OS : major Windows OS
Max. no. of terminals (authentication device)	10000
Max. no. of clients (host PC)	100
E-mail sending function	○
Server authentication	○
Real-time monitoring function	○
Transfer user data to device	○
View event logs and create reports	○
User authentication	Fingerprint, Smart Card or Fingerprint + Smart Card authentication (by the applicable device)

Fingerprints, smart card registration, and access data are stored in authentication device on rack door.



Management software Event log screen

## Optional equipment

Improve usability of registration, authentication, recording, and monitoring and expand the range of operation by adding optional equipment.



**YNR-BM**  
USB fingerprint registration device for host PC  
Register fingerprint where authentication device is not available. Register fingerprint on the host PC in Tokyo and authorize opening/closing of racks in Osaka and save time spent on registration onsite.



**YNR-DE-2**  
USB card reader-writer for host PC  
An external reader that enables card registration by connecting to the host PC when monitoring remotely at a remote location without an authentication device.



**YNR-L/5**  
Door open/close management sensor  
Mounted on the door on the rack body, monitors open/closed status collectively from a PC.



**YNR-M1K-2**  
Mifare card 1KB (plain white)  
**YNR-FEK**  
FelicaCard  
Used for registration, deletion, and authentication



**YNR-I/O-2**  
I/O expansion device  
Strengthen security in conjunction with surveillance cameras, etc.