

# Fingerprint Authentication System for Access Control and T&A Management

VIRDI fingerprint access control devices are high performance devices featuring;  
fake finger detection, fast and accurate matching algorithm.



**IR52 Jang Young Shil Award**  
"Fingerprint system with fake finger detection"



**Winner of NPS award  
in Biometrics**



## VIRDI AC 2100/AC 3000/AC 4000

### Key features



#### Fake Fingerprint Detection (Patented)

- Proprietary optical sensor and algorithm detects fake fingers made of paper, plastic, rubber, silicon etc. (AC 4000 only)



#### Fast Authentication Speed

- 1:1 < 0.5sec, 1:N (1000) < 1sec



#### Various Authentication Methods

- Using combinations of fingerprint, password and RF/Smart Card



#### Communication Interface

- TCP/IP, RS-232, RS-485, Wiegand

### Main functions

- Access Control, Time & Attendance and Meal Control
- Real-time monitoring for Access Control
- Interphone integration for Visitor Control
- Access Control / Alarm Controller / DVR Integration via RS-485, Wiegand or RS-232
- Electric Lock Control (EM / Deadbolt / Strike / Motorized Lock)
- Warning signal for forced case opening
- Flexible fingerprint enrollment and authentication levels



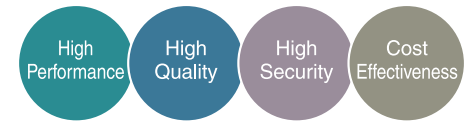
VIRDI AC 2100



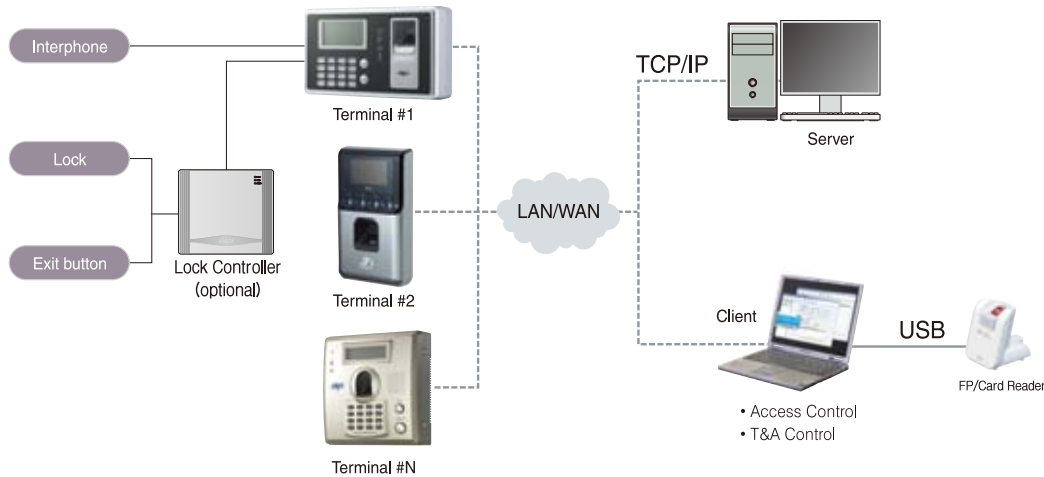
VIRDI AC 3000



VIRDI AC 4000



### System Configuration



### Specification

Item	VIRDI AC 2100	VIRDI AC 3000	VIRDI AC 4000
CPU	32 Bit RISC CPU	32 Bit RISC CPU	32 Bit RISC CPU
Template capacity	Default : 200	ACS : 7,000 / UNIS : 6,000	ACS : 60,000 / UNIS : 45,600
Event log data	5,000	ACS : 12,000 / UNIS : 6,100	ACS : 250,000 / UNIS : 55,800
Template size	400 Bytes per template	400 Bytes per template	400 Bytes per template
Cards supported	125 KHz EM card 13.56 MHz Mifare card	125 KHz EM card 13.56 MHz Mifare card	125 KHz EM card 13.56 MHz Mifare card
LCD display	128×64 Graphic Display LCD	122×32 Graphic Display LCD	128×64 Graphic Display LCD
Communications	TCP/IP, 1 RS-232C, 1 Wiegand, 1 RS-485	TCP/IP, 2 RS-232C, 2 Wiegand, 1 RS-485	TCP/IP, 2 RS-232C, 1 Wiegand, 1 RS-485
Door phone interface	No	Yes	Yes
Lock control	2port Control Motor Lock or 1port Control EM/Strike/Deadbolt Lock	2port Control Motor Lock or 1port Control EM/Strike/Deadbolt Lock	2port Control Motor Lock or 1port Control EM/Strike/Deadbolt Lock
Power consumption	Max DC 12~24V / 450mA	Max DC 12~24V / 450mA	Max DC 12~24V / 450mA
Operating environment	-20 ~ 50° / Lower than 90% RH (Non-condensing)	-20 ~ 50° / Lower than 90% RH (Non-condensing)	-20 ~ 50° / Lower than 90% RH (Non-condensing)
Sensor type	Optical	Optical	Optical
Sensing area	13×15 mm	13×15 mm	13×15 mm
Resolution	500 dpi	500 dpi	500 dpi
Verification (1:1) time	<0.5 sec	<0.5 sec	<0.5 sec
Identification (1:N) time	<1 sec	<1 sec	<1 sec
FRR / FAR	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%
Available S/W	Access control, Time & Attendance	Access control, Time & Attendance	Access control, Time & Attendance
Dimension	97(W)×170(H)×40(D) mm	137(W)×137(H)×48(D) mm	181(W)×109(H)×47(D) mm

