

VISIONA-64TM SERIES

HARDWARE MANUAL

VISIONA-64TM Series Models

- VISIONA-64 (70050)
 Catalogue number: V64-B-1K
 No integrated card reader
- VISIONA-64 SMC (700555)
 Catalogue number: V64-B-SMC-1K
 Integrated DESFire/MiFare reader
- VISIONA-64 EXTENDED
 Catalogue number: V64-OD-NR-1K
 IP65 with extended temperature range
- VISIONA-64 SMC (700556)
 Catalogue number: V64-OD-NR-1L
 Integrated IClass/SEOS reader

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1. INTRODUCTION

VisionA-64™ - Face recognition based physical access control terminal

The VisionA-64™ and the accommodating VA64WS™ software solutions offers a complete identity management solution.

1.1. Overview

VisionA-64™ incorporates precision face-recognition technology into an ergonomic computer peripheral, which delivers unparalleled performance, reliability and convenience. The VisionA-64™ can be modular, and it utilises the most accurate biometric technology available.

The VisionA-64™ operates as a standalone PAC, or as part of a networked access control solution, allowing for complete modularity and interoperability between all MAD EYE and third party software/hardware using our proprietary VA64WS integration SOAP API (web-service).

1.2. General features

- Full stand-alone capabilities
- Internal SQLite database
- · Easy installation kit
- Easy integration into third party hardware and software.
- Integrated, contactless card reader supporting: DESfire, MiFare(or IClass/SEOS) or Proximity cards
- Encryption: SHA 256 bit SSL
- Anti-vandal casing (available IP65 enclosure on the EXTENDED version)
- Communication: TCP/IP, WiFi, BLE, OSDP
- Inputs:
 - Exit push button/door status
- Power sources
 - No power supply provided
- USB host
- RS-485
- On-board relay unit
- Real-time clock
- Tamper protection
- Wiegand
 - IN (Up to 90 bit customized)
 - OUT (Up to 90 bit customized)
- Operating temperature: -10 Celsius to +70 Celsius
- Indoor / Outdoor use

1.3. Operational modes

- Identification(1:N) standalone DB, up to 2000 templates (extendible upon request)
- Verification (1:1) standalone DB, up to 100,000 templates
- Template on Card template is stored on Desfire/MiFare (IClass/SEOS) card
- Template on Mobile user data stored on a mobile app
- Template on Secure Device user DB on onespecific device

1.4. Access modes

- Face only
- Smart card only
- Face or smart card
- Face and smart card

1.5. Door states & statuses

• Strike Time - the time duration that the strike relay will be enabled when successful access has been granted.

Please note:

All communication channels are rated UL294 Level 4, except for external relay signals, which are Level 2.

2. INSTALLATION PREPARATION

2.1. What's in the box?

Open the box, and make sure that the contents match the order form and the packing slip.

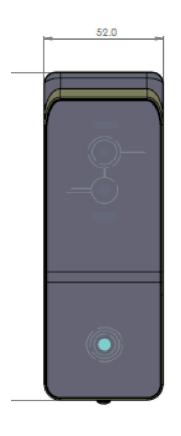
While unpacking, please check for any visible damage to the terminal or the accessories. The protective materials used for the packaging should be able to protect the unit from most forms of damage during transportation.

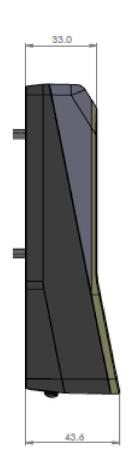


Contents:

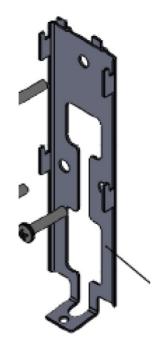
- Biometric terminal
- Wall mounting bracket
- Cables
 - Power Cable
 - Ethernet Cable
 - Interface Connectors

BIOMETRIC TERMINAL



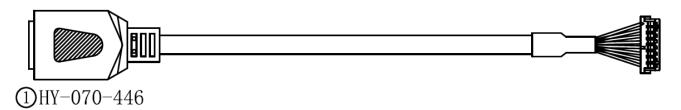


WALL MOUNTING BRACKET

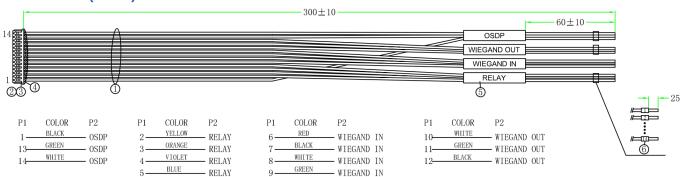


CABLES

Ethernet (P45)



Interface (P42)



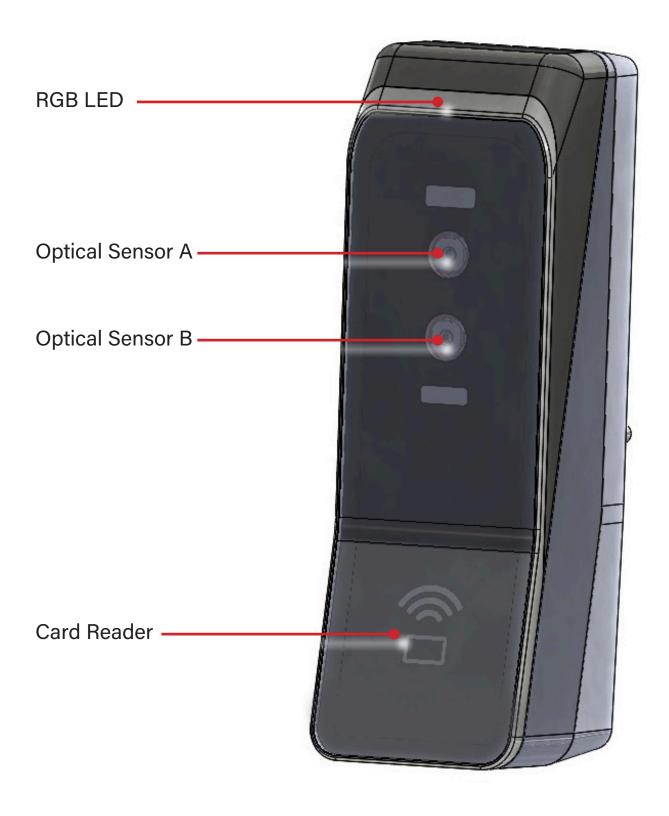
12 V DC 1AMP Power Cable (P1)



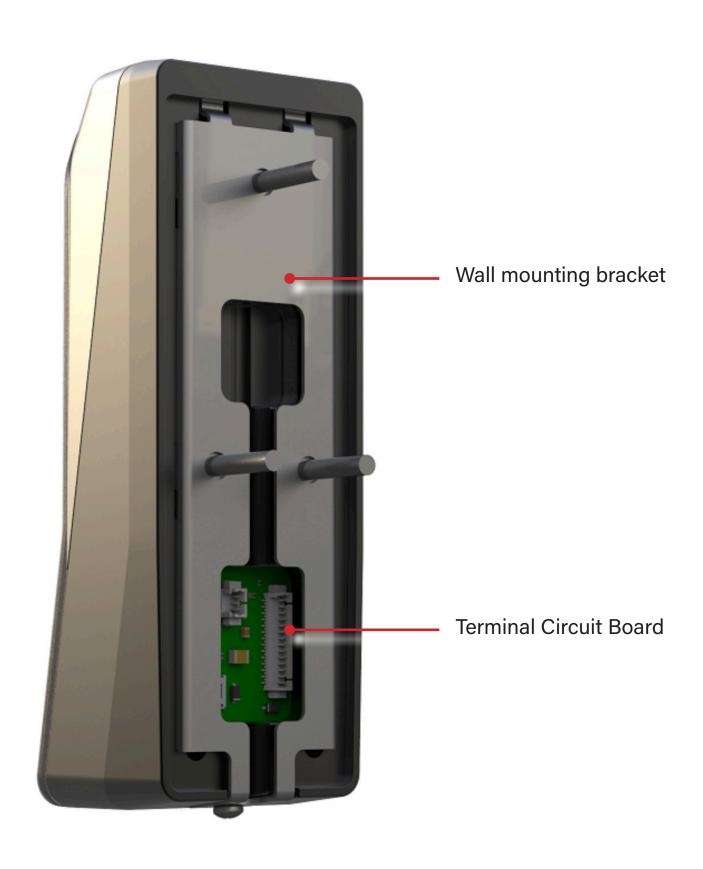
3HY-070-506

3. HARDWARE LAYOUT

3.1 Terminal front view



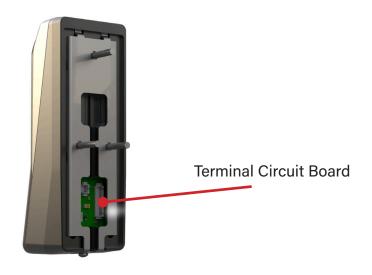
3.2 Terminal rear view

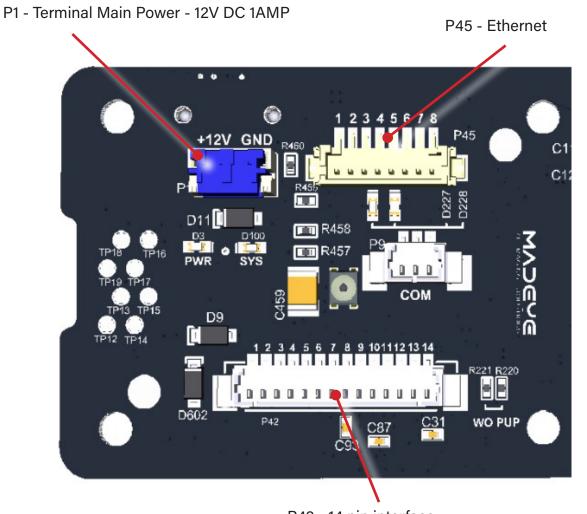


3.3 Terminal dimensions

Size in millimetres (mm)

3.4 Terminal circuit board I/O connections





3.5 Terminal circuit board connection definitions

	Function	Label	Туре	Pin Position	
P1	POWER INPUT	12V	VDC (Reader power)	1	
		GD	GROUND (Reader power)	2	
P45	ETHERNET				
	14 PIN INTERFACE		GND	1	
			EXIT PUSH BUTTON	2	
			N/C	3	
			COMMON	4	
			N/O	5	
			5V DC OUT	6	
D40			GND	7	
P42			WIEGAND IN DATA 1	8	
			WIEGAND IN DATA 0	9	
			WIEGAND OUT DATA 1	10	
			WIEGAND OUT DATA 2	11	
			GND	12	
			RS485B	13	
			RS485A	14	

4. TYPICAL INSTALLATIONS

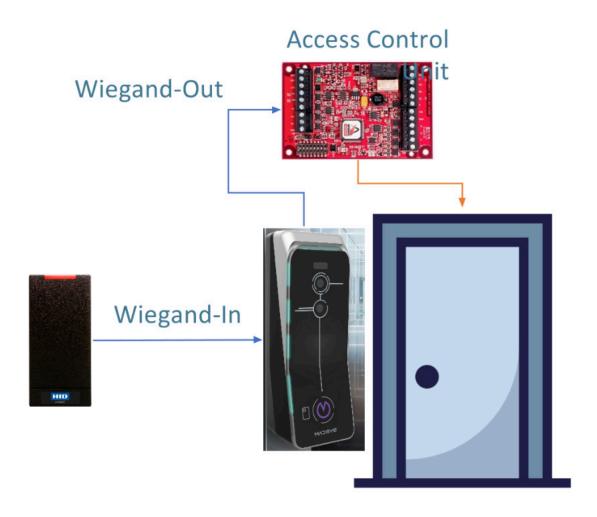
The terminal installation should comply with your local safety rules. The installation has to be done by certified installers only. Recommended locations and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70.

The following tools/materials are required:

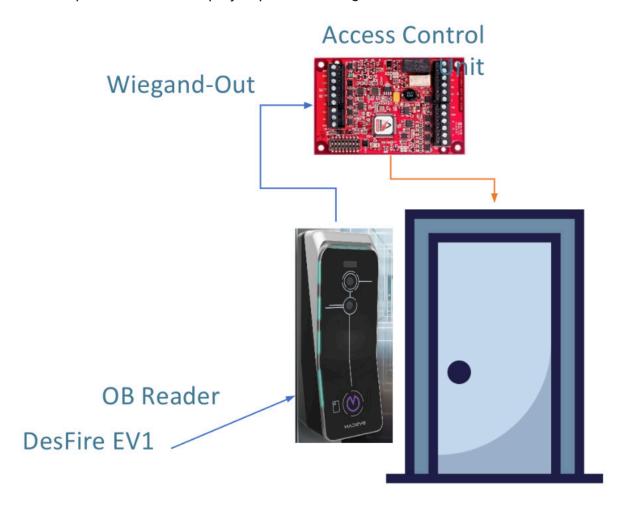
- · Hammer drill & drill bits
- Screwdrivers
- Wire cutters
- CAT 5 cable / Network cable

4.1 Integrate with access control system operation modes

- 1:1 identification External reader
- · Template on main server Suricata Server



- 1:1 identification OB Reader
- Template stored on employee personal badge

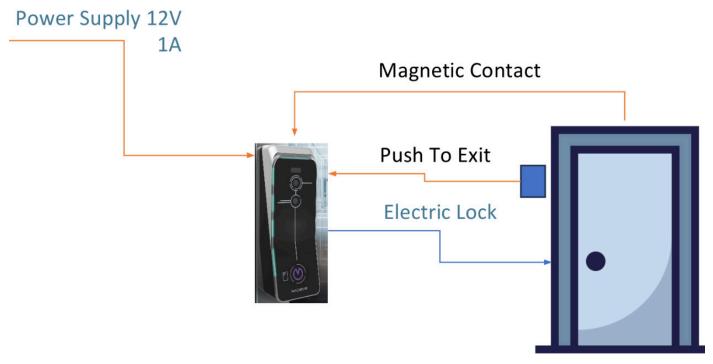


- 1:N Verification Face only Template stored in Edge device

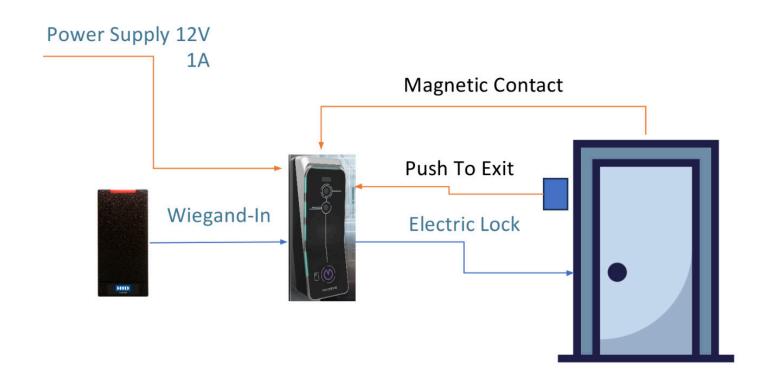


4.2 Stand alone installation operations mode

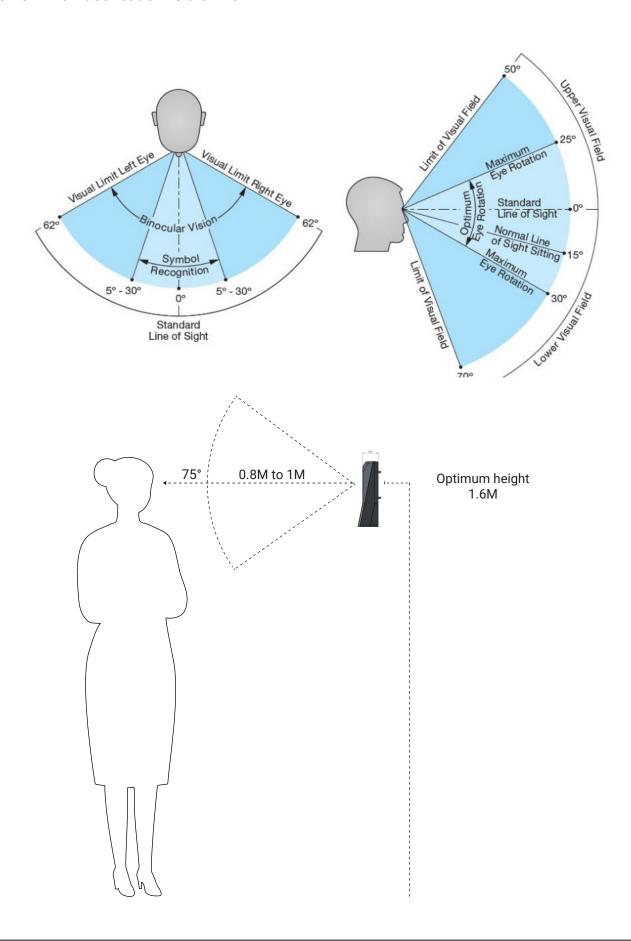
- 1:N Verification Face only
- Template stored on edge device



- 1:1 identification External reader
- Template on main server Suricata Server



4.3 Terminal face reader field of view



5. TERMINAL IP CONFIGURATION

All of the VISIONA-64™ terminals are shipped with DHCP IP settings. If there is no DHCP server accessible, the terminal will use the following default settings:

5.1 Default IP configuration

IP address: 192.168.1.111
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.1.1

5.2 Reset default IP configuration

To reset terminal to default IP settings, short pins 7, 8, 9 on P42 (MOLEX 14 pin connector), power the terminal, and after you hear the beeps, the terminal is back to default IP configuration.