

DuoPASS

TERMIANL USER MANUAL V1.0



LAMPUS tech

 **Lampus**_{TECH}

FCC ID: VEVLFRDP-5100

Note: This device complies with Part 15 of the FCC Rules.

Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the use's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 for the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequencies energy and, if not installation and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

1. DuoPASS Briefs

DuoPASS, newly launched Price Competitive Fingerprint Identification device of Lampustech Co., Ltd., is the very fingerprint identification device (or RF card reader device) with wide applicable scope which needs the user identification, like Access Control, Time & Attendance, Dining Count, Membership Management and Student Management and so on.

DuoPASS, with diverse I/O, provides optimal solutions in various purposes needed. Armed with LCD sized 16 x 2, 12 basic keys and 4 additional function Keys, 3 color LED, this device would provide convenient and user friendly environment for the users.

And it could be applied for diverse division with its embedded communication ports like 1 RS232, 1 RS485, 1 Wiegand, 1 optional TCP/IP and 1 Relay for lock control and 1 external Sensor input for Exit Button.

2. Specific Features

2.1 Specific Features

Exit Door Control, Time & Attendance, Overtime Labor Management

Four function keys available for the Time & Attendance could be used flexibly in programming the customized Software. One Terminal could be applicable for many kinds of functions.

Available for both STAND ALONE and Network with ACU and PC

It is possible to use DuoPASS as a STAND ALONE or network with ACU, and when using the ACU network system the PROTOCOLs like Wiegand/RS232/RS485 available. Moreover the bundle Software could make it possible to connect to PC directly thru RS232/RS485 and TCP/IP optionally. And the RTC and Log Management Function(8000 times) enables Access Control and Time & Attendance without ACU.

2.2 Functionality

- User Management

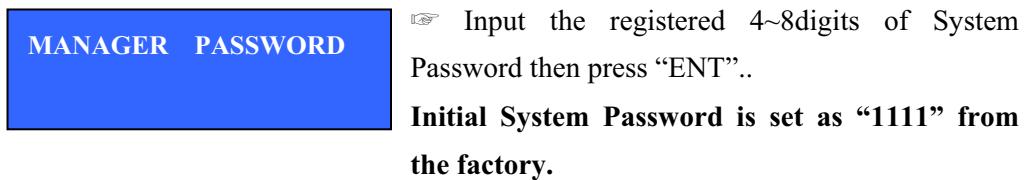
- User registration
- User Deletion
- Registered User referring
- ID registration referring
- Registered ID list referring

- **System Management**
 - Time/Date setting and referring of the embedded Timer
 - Device Number setting(1~255)
 - Relay working time for lock setting(0~99)
 - Identification Combination setting(Finger, CARD ONLY, CARD or KEY etc)
- **Others**
 - Exit button
 - Relay Output(Lock Control)

3. System Manager Mode

This mode is for the job of User registration and deletion, system set up. To enter into the mode, press “0” key while pressing “ESC” key.

System Password Input



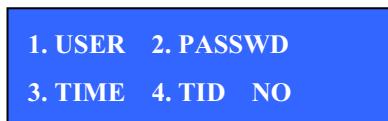
If Password is wrong, the below would be displayed..



If Password is right, System Menu goes back and displayed as below.



In above menu if you select '1. REGISTRATION', System Menu would be displayed as below..



3.1 Menu 1-1 User Registration

In system menu 1.REGISTRATION → **1. USER select**

Enter into process for registration as below

► **3.1.1 PIN (Only)User**

1. PIN or CARD
2. FINGER

☞ Select “**1. PIN or CARD**” goes to next

PUT PIN or CARD

☞ Input ID (1~8 digit) for registration and ‘ENT’. If ID already exist in system ‘DUPLICATED PIN’ would be displayed.
It is available to register PIN user continuously.

PUT PIN or CARD
OK! USER PIN IN

☞ To close registration processing,
Press ‘ESC’ then would be return to previous menu

1. USER 2. PASSWD
3. TIME 4. TID NO

► **3.1.2 CARD User**

1. PIN or CARD
2. FINGER

☞ Select ‘**1. PIN or CARD**’ goes to next

PUT PIN or CARD

☞ Get Card approach to Terminal
If Card # already exist in system,
‘DUPLICATED CARD’ would be displayed
It is available to register continuously.

PUT PIN or CARD
OK! CARD ID IN

☞ To close registration processing,
Press ‘ESC’ then would be return to previous menu

1. USER 2. PASSWD
3. TIME 4. TID NO

► **3.1.3 Fingerprint User**

- 1. PIN or CARD**
- 2. FINGER**

Select **2. Finger**, then going to next

PUT ID or CARD

☞ Input Card or ID (1~8 digit) for registration and 'ENT'. If ID already exist in system '**'DUPLICATED ID'** or '**'DUPLICATED CARD'**' would be displayed.

PUT FINGER ON

☞ Scan finger print on scanner properly:
1st Step

FIRST ID IN OK

☞ Remove Finger immediately

REMOVE FINGER

☞ Scan finger print on scanner properly:
2nd Step

PUT FINGER AGAIN

CAUTION

**Must scan finger in about 7 second
and three times for registration
while scanner glittering red!!**

SECOND ID IN OK

☞ Scan finger print on scanner properly:
3rd Step

REMOVE FINGER

PUT FINGER AGAIN

THIRD ID IN OK

☞ To close registration processing
Press 'ESC' then goes to previous menu

**PERFECT
REGISTRATION**

3.2 Menu 1-2 PASSWORD : Password Reset

PUT NEW P/W

☞ Input system password (4~8digit) for replacement.
Than ‘ENT’

VERIFY NEW P/W

PASSWORD CHANGED

☞ Input password again for confirmation.

If passwords are not the same,

‘Sorry!! Mismatch’ would be displayed, try again

3.3 Menu 1-3 Time Setting

YY/MM/DD

☞ Input time for set in turn date and time and ‘ENT’
This reset function is also available thru PC operation
Program

3.4 Menu 1-4 Terminal ID Registration

Each terminal of DuoPASS must have unique terminal ID number.

This is very important factor to recognize each Terminal.

DuoPASS system can cover maximum 255 terminals on one TCP/IP connected system.

TID : 1 (1-255)

☞ Input terminal ID for setting or replacement.
Input, then ‘ENT’
Terminal goes to the previous menu

1. REGISTRATION
2. SYSTEM

Select ‘2. SYSTEM’ then goes to next menu

1. DATA **2. ID** **CHK**
3. DOOR **4. CONNECT**

3.5 Menu 2-1 DATA : available to delete User ID and Log Data

Select **1. DATA**, then system menu would be displayed as follow

1. DELETE
2. DELTE ALL

- ☞ 1. DELETE: Each User ID removable
- 2. DELETE ALL: All User ID deletion and All log Data deletion use

DEL ID or CARD

- ☞ Input Specific ID and Card ID for deletion
- then ‘ENT’ after select 1, DELETE

REALLY DELETE?
1. YES **2. NO**

- ☞ Menu asks the confirmation

DEL ID or CARD
ID DELETING OK

- ☞ Delete processing is done successfully

DEL ID or CARD

- ☞ To close delete processing, press ‘ESC’
- Terminal goes to previous main menu

1. DELETE

2. DELTE ALL

☞ 2. DELETE ALL for All User

1. ALL ID

2. ALL LOG DATA

☞ 1. All ID for all users ID deletion

2. ALL LOG DATA for all log deletion

WAIT...

ALL DELETE OK

☞ All data deletion processing is done successfully

Menu goes to previous main menu

3.6 Menu 2-2 ID CHECK: inquire registered ID counts and IDs

1. DATA 2. ID CHK

3. DOOR 4. CONNECT

Select 2. ID CHECK then next menu would be displayed.

1. TOTAL ID NO.

2. CHECK EACH ID

☞ Select 1. TOTAL ID NO.

Number of ID counts would be displayed and goes
Back to previous menu

1. UP 2. DOWN

1:11

☞ Select 2.CHECK EACH ID.

Can check registered ID in turn

3.7 Menu 2-3 DOOR: Time setting for relay Door locking

**1. DATA 2. ID CHK
3. DOOR 4. CONNECT**

Select **3. DOOR** then this menu would be displayed as below

LOCK TIME (0-99)

☞ Input proper time for relay

This is relay time from door open to close

3.8 Menu 2-4 CONNECTING: Verification mode setting

**1. DATA 2. ID CHK
3. DOOR 4. CONNECT**

Select “4.CONNECT”, then window displays as below

**Mode is 1:N
LOG SAVE = YES**

Mode is 1:N means current authentication mode is 1:N and LOG SAVE = YES means Terminal is saving door entrance log.

Menu for setting verification mode 1:N or 1:1

1:N mode is mandatory form the factory

**1. 1:1 2. 1:N
3. LOG DATA SAVE**

☞ May select 1:1 or 1:N

After selection menu goes to previous

In case of 1:1 mode, Fingerprint user should place their card or input ID before fingerprint scanning

**1. 1:1 2. 1:N
3. LOG DATA SAVE**

Setting is done; menu displays ‘SETTING OK’ as below



“3. LOG DATA SAVE” menu is for log saving in Terminal or not.

“3. LOG DATA SAVE” select and change log saving mode



“3. LOG DATA SAVE” selected then displays



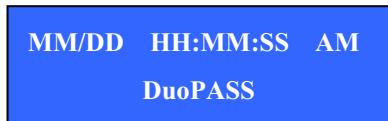
Admin may select YES or NO for terminal can save its log in device or not. If you select “NO” terminal do not save entrance logs, so PC operating program cannot get any information. Please choice carefully.

4. User Mode

When DuoPASS terminal is power on, terminal displays basic user mode menu.

User can get verification with fingerprint, input ID and RF Card.

For time and attendance, user should press function key (F1~F4) before input method.

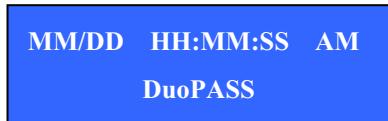


► Card and PIN User



- ☞ Approach RF Card to terminal or
Input PIN
Registered ID or Card case,
‘WELCOME OK’ with beep sounds
- Unregistered ID or Card case
‘UNREGISTERED ID’ with bippip sounds

► Fingerprint User

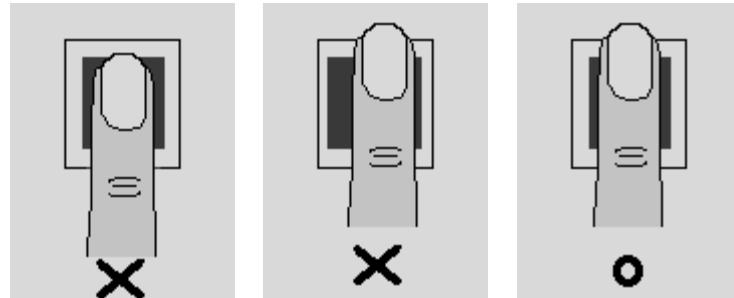


- ☞ 1:N mode
Scan fingerprint on terminal sensor
- 1:1 mode
Input ID or place card before fingerprint
scanning
- Unregistered Fingerprint case
‘FAILED’ with bippip sounds

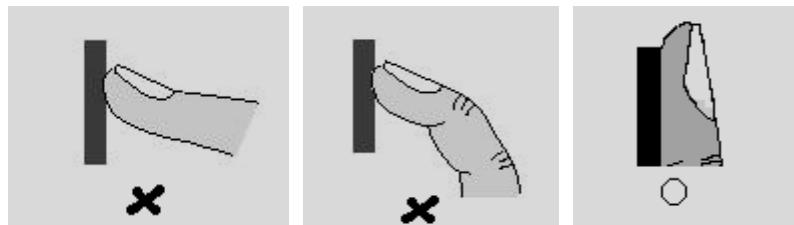


Fingerprint Input Guide

➤ Fingerprint Input position



➤ Fingerprint Input Guide



5. Specification

5.1 Composition

- 1 Main board
- 1 LCD Module
- 1 RF Module
- 1 Fingerprint Identification Module
- 1 TCP/IP module (Option)

5.2 Power

- Voltage
 - +12V DC with $\pm 30\%$ tolerance, less than 150mVp-p ripple voltage
- Power Consumption
 - Stand-by : Ave. 120mA
 - Max. : Ave 150mA

5.3 Circumstance

- Temperature and Humidity
 - Working Temperature : 0°C to 60°C
 - Prevention Temperature : 0°C to 60°C
 - Working Humidity : 0% to 90%
 - Preservation Humidity : 0% to 90%
- Static Electricity
 - 0~4KV Contact Discharge : No unrecoverable error
 - 0~8KV Atmospheric Discharge : No user detectable error

5.4 Communication Interface

- 1 TCP/IP port: 10base-T Ethernet
- 1 RS232 port: full duplex
- 1 RS485 port: half duplex
 - default speed is 9600bps
 - Communication Variable is no flow control, 1 stop bit, 8 data bits
 - Max Communication Distance is following Standard RS232, RS485 Specification.
- 1 Wiegand Port (When interfacing with ACU)
 - Max transmission Distance : 150m

5.5 Relay Working

- 1 Relay Out (COM, NO, NC)

5.6 User Capacity

- Max 3,000 Users includes RF Card users

5.7 User In/Out Record (log entry)

- Max. 8,000 times 40,000 (Option)

5.8 Size

- Main Board : 92 mm(W) X 130 mm (H)
- Key Board : 70 mm (W) X 75 m (H)
- LCD Module : 27 mm (W) X 72 m (H)
- RF Module : 38 mm(W) X 38 mm (H)
- Fingerprint Module : 37 mm(W) X 66 mm (H), 30 mm(W) X 52 mm (H)
- Device Dimension : 150mm(W) X 156 mm(H) X 46mm(D)

5.9 Weight

- 300g

5.10 Identification Time

- Normally less than 1 sec

5.11 Input Key

- 12 number Touch Key and 4 function key

5.12 Display

- 3 LED: Blue, Green and Orange
- 1 LCD: 16 Character X 2 Line (LED Backlight: Blue)

5.13 Connector Specifications

2 PIN

○	+12VDC
○	GND

4 PIN

○	+12V
○	WD-OUT 0
○	WD-OUT 1
○	GND

6 PIN

○	R/L-NO
○	R/L-NC
○	R/L-COM
○	DOOR-SW
○	DOOR-O/C
○	GND

5 PIN

○	485-TRX +
○	485-TRX -
○	GND
○	232-TxD(PC)
○	232-RxD(PC)



TCP/IP Port



Power Adapter