

Embedded Web Server**ACTatek System**

Access Control Time Attendance

Quick Installation

This sheet will guide you through the basic steps needed to install the ACTatek and connect with your network. If you have any problems during installation, refer to the manual in CD for more information.

Before Beginning**Power Requirement**

The ACTatek ACTA-BIZ series requires a 12V DC/1A(or above) Switching Power Supply. Please DO NOT share the power supply with any other devices, including Door Strikes. Unstable power supply would damage the ACTatek seriously.

Deciding where to install

ACTatek is a wall-mountable unit with a very small footprint, and can be conveniently installed anywhere. If used as an access control system, the product should be installed close to the door, so the user can open the door within the timeout period after authentication (8 sec. by default).

Installing Your ACTatek**Power & External Controls Connections**

ACTatek provides easy-access terminals for connections to external controls, including Door Strikes, Door Sensor, Door Release Switch, and External Alarm.

If the system works as Access Control System, an additional diode is required, to avoid back EMF from the Door Strike, which may damage the ACTatek unit. Refer to the diagram attached.

Power (12V DC):

DC Jack +12VDC

Open Door Switch #1 (optional)

Terminals # 1 & # 2

An optional door switch can be connected to these terminals. It is used to open the door remotely, such as opening the door from the inside of the business premises, or from the reception area.

Open Door Switch #2 (optional)

Terminals # 3 & #4 Same as above

Door Sensor #1 (optional)

Terminals # 5 & #6

It provides ACTatek with the current status of the door (open / close). If the door is left open for over 25 seconds, ACTatek will generate beep sounds to alert others.

Door Sensor #2 (optional)

Terminals # 7 & #8 Same as above

External Alarm (optional)

Terminals # 9 & # 10

This is used for connecting an optional external alarm. If in the case of a forced opening during operation (such as a break-in), an internal sensor will trigger this connection, and it will sound the external alarm.

Door Strike #1

Terminals # 11 - # 12 Normal Open

Terminals # 12 - # 13 Normal Close

These terminals are connected directly to the internal relay, rating at **12VDC / 1A**. If the door strike is within this current limit, it can be directly connected to these terminals. If the system is used solely for Time Attendance, these terminals can be left disconnected.

Door Strike #2

Terminals # 14 - # 15 Normal Open

Terminals # 15 - # 16 Normal Close

Same as above.

Network Connections

You can connect ACTatek unit directly to your corporate computer network via standard RJ-45 cabling & TCP/IP protocols. By connecting it to the network, you can manage & monitor the unit via any standard Web Browser (such as Microsoft Internet Explorer or Netscape Navigator).

First, make sure the TCP/IP protocols have been installed and configured correctly on the PC or Notebook which you want to use to access ACTatek.

Setting the Network & TCP/IP address

Press "**Menu**", enter "**A999**" (admin. ID), then press "**1**"

(default password), select the "**IP Setting**" icon,

Enter IP address Press "**Enter**" to continue.

Enter Subnet mask Press "**Enter**" to continue.

Enter Default Gateway Press "**Enter**" to continue.

Enter DNS (if required) Press "**Enter**" to continue.

Or: Enable DHCP (if required) Press "**Enter**" to continue.

Open your PC's web browser and type the ACTatek IP address, which you've assigned, in the browser's address box.

Press **Enter**. ACTatek's web interface should be appearing in the browser windows.

* If you have any problems during above steps, please consult your network administrator.

Fingerprint Enrollment

Finger Position. Place the center of finger in the sensor center. The fingerprint may be positioned far left, far right, far up or far down. For instance, if a user enrolled a far left fingerprint. During verification, the user may press far right. Since there is no overlap between enrollment and verification templates, the user may be rejected. If the user enrolls the finger in the middle, there is a better chance of being accepted.

Finger area. The best advice is to cover the sensor area completely with finger to ensure the maximum fingerprint surface contact area. A common mistake is to touch the sensor with the tip of the finger, which contains too few information (ie., minutiae). It is also preferable to use the thumbs rather than other fingers.

Finger rotation. It will be good for the user to keep the fingerprint rotation minimal during the enrollment. The rotation should be within +/-10 degrees during enrollment.

Finger pressure. Use medium pressure. Excessive pressure may distort the image and adhere ridges together. Too little pressure would lead to a small fingerprint area or dry fingerprint.

Finger condition, very dry or wet finger. Although ACTatek's fingerprint sensor is designed to handle dry or wet conditions, it is wise to handle specially of very dry or wet fingers. The user can wipe wet fingers with cloth or paper towel. For dry finger, the user can moisturize the finger by breathing on it, by touching the forehead to pick up surface oil, or by applying small amount of skin-moisturizing lotion. The image quality could be improved tremendously by taking care of the dry/wet condition during enrollment.

It is important that the user store a high quality image when enrolling a fingerprint, because this is the fingerprint that the user will be compared with in all the verifications afterwards. If the users enrolled fingerprint image is of low quality, the user may get unexpected results during the verification stage.

Please note that during the less critical verification stage, the fingerprint image does not have to be perfect. The only requirement is to obtain enough unique "information" (ie., minutiae) to match the fingerprint. Therefore, the above steps are usually necessary for the enrollment stage only.

Instruction

It is highly recommended for the fingerprint core be big and clear for a successful enrollment of a clear and good image.

Make sure the fingerprint image captured is of the core of the finger presented. A fingerprint core is a point located within the innermost recurring ridge of any given finger.

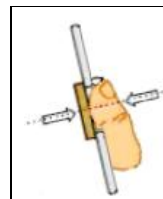
Also, to obtain a higher success rate, enroll the same finger 3 times in a slightly adjusted angle, one to the center, one inclined slightly to the left and the third inclined slightly to the right.

If you following enrollment procedure, the success rate will increase dramatically.

Adding User

- 1) Press "**Menu**" button, then enter "**A999**" (admin. ID) and password "**1**"(default password), select "**New User**" icon.
- 2) Select "**Fingerprint**".
- 3) Enter the ID No., press "**Enter**".
- 4) Place the right-hand thumb and place it on the sensor until the screen displays "**Template Stored**", then remove your finger.
- 5) Press "**Enter**", repeat the above step for the 2nd fingerprint image.
- 6) Press "**Enter**", repeat the above step for the 3rd fingerprint image.
- 7) If all images are OK, an acknowledge message "**User Added**" will appear. Press "**Enter**" to quit.

Guide for Using Fingerprint Sensor



Place your finger firmly on the sensor and align the core of the fingerprint to the center of the sensor. The sensor will scan your fingerprint automatically.

Finger Rotation should be kept to a minimum during enrollment and verification

Note: In order to obtain required quality fingerprint images, you may need to move and rotate your finger a little.

AVOID RUBBING THE SENSOR AS THIS WOULD DISTORT THE IMAGE.

Verification

ID Match: Key in your User ID No. place your enrolled finger on the sensor. If you are authenticated, the device will open the door.

Auto Match: Place your enrolled finger on the sensor, the system will scan your fingerprint automatically.

WARNING

Please be reminded to clean the sensor surface with a cotton cloth or tissue, using alcohol or contact cleaner.

Do NOT use any sharp or rugged material to clean the sensor.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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