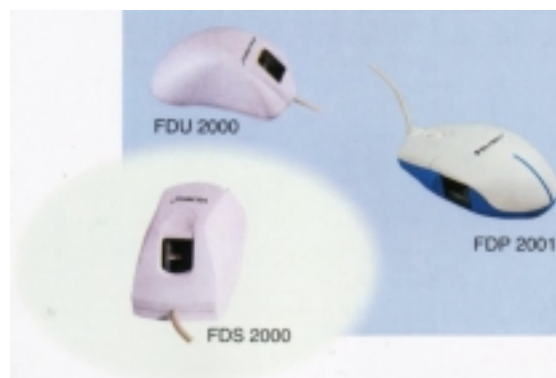


## POLYSECU FDS2000/FDU2000/FDP2001

### Fingerprint units

Modern business needs more biological identification technology than before, especially when the Internet develops speedily, the information demand increasing drastically and thereby the security. The traditional password technology has well known inborn fetal weakness. The password system can only identify the password, but not the person who inputs the password. Anyone who has got the password turns into legal or illegal user.



The hacker becomes more and more skilled and many passwords can be discovered easily. In addition, the trouble is that the password can be easily forgotten or lost. The fingerprint technology has solved all these problems. Polymath has been concentrating in fingerprint technology development. It has developed a series of fingerprint products like FDU2000, FDP2001, FDS2000, etc... and FDS2000 has furthermore successfully solved the difficulty of using fingerprint instead of password under the UNIX/LINUX system. This fact has drawn a great deal of attention from the UNIX/LINUX system users, such as insurance companies, stock exchange companies and banks.

Polymath fingerprint unit has adopted CMOS optical scanning technology. It can evenly capture fingerprints on dry/wet fingers and still form high contrast fingerprint images without distorting. The scanning prism has been given a high anti-static treatment and will also withstand physical damage. It will not affect the proper work by normal artificial damage such as scratches, crashes and high pressure. Polymath fingerprint unit has adopted the world leading fingerprint match algorithm, and thereby quickly picks the detailed data from the fingerprint and match accurately. During the calculation, the fingerprint feature data is in encrypted status. Hence it effectively avoids forging. It is small in size and can be easily adapted to other system use and thereby be used conveniently. Only by one lightly finger pressing and you are logged on to the system – no password needs to be remembered.

Application range:

A technically advanced system like Polymath, supports various hardware platforms, well enabled to be expanded according to the individual application request based on SDK (Software Development Kit).

#### 1. Internal authorization management

Advanced authorization management uses today active fingerprint instead of traditional passwords. It can effectively prevent from the fraud action from the internal employees or others. It is suitable for the internal security management in insurance companies, stock exchange companies, banks and security bureaus.

#### 2. Bank fingerprint safe system

Banks use fingerprint to identify person, therefore avoid the losses caused by false passport, password being stolen and false signatures.

#### 3. Fingerprint saving system

The systems will provide the function of fingerprint registration, fingerprint matching, Fingerprint modification, etc...

- Future Creditors will pre-register their fingers in the banks. When withdrawing money they only use the fingerprint identification.
  - The fingerprint data capacity is only 800 (2x400) bytes. It can be transmitted quickly. It overcomes the communication pressure over the network.
  - Fingerprints can safely be adjusted via network without security management being present.
4. Computer network system's safe logon and the application program's protection.
- Win95/98, NT, UNIX/LINUX system fingerprint logon
  - Screensaver to protect the fingerprint password
  - File clip and data fingerprint encryption/decryption
  - SDK available

ITEM		CONTENT
Matching response time		< 1 sec.
Resolution (dpi)		450
Sensor area (mm)		13,6 x 16,2
Fingerprint feature data (byte)		400 (encrypted)
Light		LED (red)
Power supply (DC)		5V ±10%
Max power consumption (mA)		300
Dimentions (mm) WxLxH	FDU2000	21x31x59
	FDP2001	60x130x36
	FDS2000	62x118x52
Matching accuracy	False Acceptance Rate, FAR	0,0001%
	False Rejection Rate, FRR	0,01%
Communication interface		USB, parallel, RS-232
Working environment		Temperature: -20°C~ +60°C
Compatible platform	FDU2000	Win95/98, Win2000
	FDP2001	Win95/98, Win2000, NT
	FDS2000	Win95/98, Win2000, NT, UNIX/LINUX