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Product Facts · Pocket LOOX 600 · Issue September 2002

Pocket LOOX 600
The modular handheld

Contents

Product Facts

www.fujitsu-siemens.com

FUJITSU COMPUTERS SIEMENS

Positioning and target groups

Pocket LOOX supports the user with a modular concept, integrated Bluetooth™ module, a range of Plug-On modules and expandability due to its integrated Compact Flash Type II and SD/MMCard Slot. With these possibilities the user is able to expand his Personal Companion to his current needs.

Due to its modularity Pocket LOOX can be used for all different environments @home, @move and @work.

Positioning: Modular handheld with several connectivity options for mobile professionals as well as demanding consumers.

Target groups:

- Executives
- Professionals
- Freelancers
- Sales Force
- Service Engineers
- Early adopters
- Demanding Consumer
- etc.

Channels: direct and indirect

Value Proposition: Pocket LOOX is the most modular Handheld Computing device with a maximum flexibility through its broad range of expansion possibilities. Due to its modular connectivity concept and open software platform, Pocket LOOX can be used as a stylish personal tool up to being the platform of a high integrated “mobility solution”.

Specials: Bluetooth™ integrated, CF Type II Card Slot, SD/MMCard Slot, small form factor, advanced one hand usage

Market and competition

The market for a variety of highly portable-computing products, including Personal Companions, clamshell PDAs (includes a keyboard) and smart phones is growing not as fast as during the last year due to the economic situation, but nevertheless is still growing with a high potential. Previously used as organisers, their use and value as business tool is more and more recognised.

The general term PDA (Personal Digital Assistant) can be divided into several sub-groups: Clamshell PDAs with keyboard, and pen-based palm size tablet PDAs are the main groups. The Pocket LOOX belongs to the pocket PDA group, nowadays called Personal Companion.

PDAs use an embedded operating system. With Microsoft’s launch of PocketPC 2002 in October 2001 the successor of PocketPC is available. New OS, new CPU and the development of other components of Personal Companions give the vendors the possibility to build a new generation of devices. In case of the Pocket LOOX it is the device with the latest technologies available. Microsoft PocketPC 2002 is in the family of operating systems for PDAs that is expected to be the one with the highest potential in gaining market share. Because of it being a standard OS, an ever-growing number of companies are developing software solutions based on PocketPC, be it navigation software or server-based synchronisation etc. Seamless information exchange with Microsoft Outlook – either on the desktop or directly through the server – is guaranteed because of the close family relationship.

Main Competition:

- **HP iPAQ H3950**: Bluetooth connectivity not integrated; fewer interfaces without CF card slots or USB and serial ports (Jacket adds 200g weight/double size/costs); no automatic brightness control with light sensor for optimised readable display and power saving; no NT support
- **HP iPAQ H3970**: fewer interfaces without CF card slots or USB and serial ports (Jacket adds 200g weight/double size/costs); no automatic brightness control with light sensor for optimised readable display and power saving; no NT support; more weight; expansive
- **Toshiba PocketPC e740**: no automatic brightness control with light sensor for optimised readable display and power saving; no NT support; no expansion for GSM/GPRS; smaller battery capacity

- **Toshiba Pocket PC e570**: Bluetooth connectivity not integrated; no possibility to expend for e.g. GRRS; only 5-step scaling for display brightness instead of automatic brightness control; not the actual Intel® XScale™ microarchitecture
- **Casio Cassiopeia E200G**: no integrated Bluetooth connectivity; only 5-step scaling for display brightness instead of automatic brightness control; not the actual Intel® XScale™ microarchitecture; heavier
- **HP Jornada 568**: no integrated Bluetooth connectivity; only Compact Flash type I extended expansion slot (not useable for all type II cards like IBM Microdrive); no SD card slot, not the actual Intel® XScale™ microarchitecture

Main advantages of Pocket LOOX:

- Advanced one hand usage
- Intel XScale microarchitecture
- Integrated Bluetooth
- Modular concept

For a more detailed competitive analysis, please refer to our extranet under:
http://my.fsc.net/Portal/D/competitiveanalysis

Customer benefits

Pocket LOOX is a powerful combination of a high-end PDA and modular connectivity concepts.
Due to an integrated Compact Flash (CF) Card slot type II and SD/MMCard slot it offers the user several connectivity possibilities. The wide range of available CF Card Type II solutions on the market such as cameras, storage solutions, GPS, WLAN and modem together with the synchronous usage of SD/MMCard storage solutions shows the advanced possibilities.
On top Pocket LOOX is based on a modular concept. Modules like a 2nd battery can be plugged onto the back of the Pocket LOOX.
All these solutions open the field for usage of Pocket LOOX as a business tool and not just for Personal Information Management (PIM). Simply connect with Bluetooth™ wireless to your notebook or desktop PC and synchronize calendar entries, contacts, inbox, programs and files. Join a Bluetooth™ hot spot and browse the web, look for new E-mails and get up-to-date information wherever you are. Insert a WLAN CF Card and roam through the company staying always connected. Due to its advanced concept, Pocket LOOX is prepared for @home, @move and @work requirements.

Communication: With integrated Bluetooth™ module the communication to mobile phones, Bluetooth™ enabled printers, computers and other devices can be established in an easy manner. Surfing the Internet or connecting to the company net is practicable with Bluetooth™, WLAN and other possibilities. Synchronization of Pocket LOOX with the desktop system can be done also over Bluetooth™ as over USB, serial cable or IrDA.

PIM: With PocketOutlook a powerful organizer is embedded. Not only does it keep track of appointments, with several reminder functions, it also manages contacts and tasks.

Information: Pocket LOOX is able to work with HTML/WAP based documents also with MS Word, text, SMS, E-mails, Adobe files and other documents. This ability gives the user a wide spectrum of information mining and content viewing possibilities.

Applications: Pocket Outlook, PocketExcel and PocketWord are integrated into the OS, allowing document viewing and editing while away from the PC.

Pocket LOOX is developed for advanced one-hand-usage. It comes in an industrial design (ID) and with an additional speed menu.

Other applications are amongst others Media- and Video player (for MP3 and MPEG4)

Through the open nature of the PocketPC Operating System, many third-party applications such as car-navigation or database systems are available on the market.

Wireless Technology: Bluetooth is integrated in Pocket LOOX as standard. If the integrated Bluetooth™ functionality is not needed or the use is prohibited, e.g. in aircrafts or hospitals or wherever radio interference could cause problems, you can easily mechanically switch off the Bluetooth™ module and continue using the device.

In the integrated CF Card slot type II you are also able to use WLAN CF Cards to access shared information without the need of any physical links.

With a GPRS plug-on module, which will be available in Q4/2002, Pocket LOOX even offers full mobile phone functionality and enables the user to access information anytime and anywhere.

Expandability: Through SD/MMCard: easy data exchange with digital cameras, MP3 players etc.
Through CF Card: a wide range of 3rd party peripherals are available, ranging from GPS Satellite antennas to barcode readers
Through plug-on modules: connection to GSM/GPRS, expand the battery lifetime

Product description

Product	**Pocket LOOX 600**
Processor	Intel® XScale™ microarchitecture
Memory	32 MB ROM, 64 MB RAM
Display	240x320 pixel 65.536-colour reflective TouchScreen
Battery	1520 mAh Lithium Polymer (2nd battery plug-on module available)
Weight	175g
Operating system	Microsoft Pocket PC 2002 software

Intel® XScale™ microarchitecture
Users of the new generation of highly scalable, integrated microprocessors will enjoy high-performance processing functions, such as voice and secure data transmission on enterprise infrastructure equipment. The processor offers high performance for Pocket LOOX for processing hungry applications such as streaming audio and video. The Intel XScale technology pushes RISC performance to new heights, allowing complex data to be processed over both the wired and wireless Internet. The technology's low power consumption enables long battery life for wireless and handheld multimedia devices, and allows for increased device density in Internet infrastructure applications through reduced thermal constraints.
The Intel® XScale™ technology delivers key advantages for a wide range of market segments from battery-powered, wireless and handheld applications such as digital phones and personal digital assistants to such Internet infrastructure applications as network processors and intelligent I/O processors. Fully compliant with the ARM* v.5TE instruction set, this new technology provides a full-featured, cost-effective, low-power solution with support for both 16-bit Thumb* instructions and integrated digital signal processor (DSP) instructions.
The Intel® XScale™ technology will break new ground in the devices that expand the future of the Internet.

Communication
It is the availability of new wireless communication technologies that will bring new functionality to the PDA market. With the introduction of GPRS, higher speeds than ever before are possible, opening up not only fast E-mail transfer and fast web browsing, but even streaming video and other multimedia applications.

With the integrated Bluetooth™ module the communication to mobile phones, printers, computers and other devices with Bluetooth™ technology can be established in an easy manner. Surfing the Internet or connecting to the company net is practicable with Bluetooth, WLAN and other possibilities. Synchronization of Pocket LOOX with the desktop system can be done also over Bluetooth as well as over USB, serial cable or IrDA.

The Pocket LOOX is the perfect device for creating, sending and receiving E-mails while on the move. It offers you a lot of possibilities without carrying heavy equipment with you or going through the hassle of connecting different devices. With the use of the integrated Pocket Outlook, E-mails can also easily be managed and synchronized with the PC or Notebook.

GPRS connectivity (General Packet Radio Service)
A GSM/GPRS plug-on module will be available as an accessory from Q4/2002 onwards. It is a dual band 900/1800mHz, GPRS ClassB/8, which allows wireless Internet access, using either the HTML standard, WAP or offers even full mobile functionality with or without a headset.
GPRS is a packet based GSM-technology, whereby customers are only charged for the communication resources they use. A major goal of GPRS is to provide fast and efficient end-to-end packet mode access to Internet network services. GPRS makes it possible and cost-effective to remain constantly connected, as well as to send and receive data at much higher speeds than current mobile phones.
Theoretical maximum speeds of up to 171.2 kilobits per second (kbps) are achievable with GPRS, using all eight timeslots at the same time. This is about three times as fast as the data transmission speeds possible over today's fixed telecommunications networks and ten times as fast as current Circuit Switched Data services on GSM networks.
By allowing information to be transmitted more quickly, immediately and efficiently across the mobile network, GPRS may well be a relatively less costly mobile data service compared to SMS and Circuit Switched Data.
With the GPRS Class 8/B, the device can handle up to 4 timeslots downstream and one upstream. A, B or C stands for the capability of having voice calls simultaneously to data calls. The Pocket LOOX has class B, meaning you cannot make voice calls at the same time as data calls, but it will alert you during the data call that you have an incoming voice call. “A” means voice and data can be mixed and C means not even an alert can be given.

Bluetooth

Bluetooth™ is designed as a short-range (10 – 100m) cable replacement technology linking multiple devices wirelessly for synchronization, data transmission and file transfer. Furthermore it allows Bluetooth™ equipped devices to access the LAN or Internet quickly and easily. Pocket LOOX has an internal Bluetooth module with a range of 100m.
More information like White Papers can be found under:
http://www.fujitsu-siemens.com/wireless

Interfaces

The Pocket LOOX comes with various interfaces such as an integrated microphone and loudspeaker as well as the stereo headphone connector - and of course an infrared port and the cradle connector. With help of the standard USB or optional serial cable you are able to connect the Pocket LOOX to your PC.

Infrared

The Pocket LOOX comes with a built-in Infrared (IrDA) interface as standard. This allows wireless data transfer, e.g. to desktop computers and notebooks, or communication with other peripheral devices such as printers, beamers or mobile phones.

Compact Flash (CF) Card slot

Above all, the Pocket LOOX sports a CF Card slot type II and a SD/MMCard slot (MultiMediaCard). The CF Card slot, originally made for flash memory cards, can be compared to the PCMCIA slots on a laptop. With an adapter, they are even interchangeable – with the difference that the form factor is less than half the size and thus much lighter. As they are meant for battery operated PDAs, they use power much more efficient as PCMCIA cards. Several types of CF Cards such as WLAN Cards and IBM Microdrive (1GB) are available. Of course, flash memory cards for memory expansion still work as well.

Secure Digital (SD) / Multimediacard (MMCard) slot

The SD Card is mainly used in digital cameras or MP3 players. With a much smaller form factor than CF Cards, these storage cards - the SD/MMCards - are the ideal way of exchanging and storing information.

Display

Pocket LOOX comes with a bright 240x320 pixel 65.536-colour reflective TouchScreen, which is intended for use with a stylus or with fingertip and offers best indoor and outdoor usage.

Operating System

Pocket LOOX is based on the latest Microsoft operating system for PDAs, the Pocket PC 2002 software. This very powerful OS has become a standard in PDA operating systems. Its constantly growing market share and the large developer community is ensuring compatibility and many software solutions. Not that the standard software offering leaves much to complain about. Pocket Outlook, Pocket Word and Pocket Excel will give you a small office away from the office. Together with terminal client functionality and server based synchronization, it gives the user a fully functional mobile office in a handy form factor.

Accessories

Additional to the standard delivery package, which includes a protection bag, cradle, USB cable and TouchScreen stylus, there are several optional accessories available. For instance a second battery plug-on, a GSM/GPRS plug-on module (as of Q4/2002), various CF Cards like wLAN and IBM microdrive as well as a foldable keyboard and sync cables to mention just a few.

Security

It would be difficult to deploy a business application on a mobile device throughout an organization without any thought to security such as a password that is automatically set when powered off. Pocket LOOX is designed with this feature for which there is no back door – no way for someone to get access to the applications or data on the device without the power-on password as long as the password is set.
In addition to device password protection, mobile device security includes a documented security policy in the enterprise, authentication, encryption, public key infrastructure (PKI), virtual private networking, and protection against viruses. There are many security offerings for Pocket PCs, from Microsoft and third parties.

Flash-able ROM.

Organizations deploying large numbers of mobile devices should evaluate the cost and benefits of devices that store the operating system and core applications on an updateable, “flash” ROM chip. While this may add a little more to the cost of each device, updates to the operating system and core applications can be remotely installed in the field without having to swap or replace devices.
Fujitsu Siemens Computers will offer customized devices for projects/companies as an additional service. Therefore the customer will receive one device as the other, fitting to his needs after consideration of his needs and specifications.
In some cases, systems management, virus protection and custom applications may be placed in flash ROM so that even if a user does a hard reset of the device by removing all batteries, these applications are not lost or deactivated.

Authentication.
Accessing corporate networks or restricted Internet sites requires support for secure authentication protocols. These include dial-up authentication using Windows NT® Challenge/Response and optionally SecureID card support, authentication when accessing a secure Web site with Secure Sockets Layer (SSL) technology, fingerprint authentication, picture-based passwords, and signature authentication for certain applications. Pocket PC 2002 supports both 4-digit and strong alphanumeric power-on passwords. Each time an incorrect password is attempted, a time delay that increases exponentially is enforced. The File Explorer application has new support for accessing shared Windows-based file servers. User authentication is required for accessing these servers.

Networking security
To encrypt data for protection from unauthorized access, a device must support industry-standard 40-bit or 128-bit encryption or be able to use a corporate standard encryption technique that can plug into the industry-standard CryptoAPI. Data is also encrypted when using the Internet to connect to a corporate server using a virtual private networking protocol (e.g., PPTP or IPSec). Pocket PC 2002 now includes support for the Point-to-Point Tunneling VPN Protocol. Additional VPN protocol support is available from third parties.
The static shared-key Wired Equivalent Privacy (WEP) algorithm has now been documented by researchers at the University of California to be easily defeated. As a result, this means alternative approaches are necessary for securely connecting over 802.11b wireless LANs using Pocket PCs. These two secure alternatives are available today:
VPN:
In the first approach, the 802.11b access points can be directly connected to the Internet. Virtual Private Networking software on the Pocket PC can then be used to authenticate the user and provide a strongly encrypted connection to an organization's network.
LEAP:
The second approach is done with the 802.11b access points connecting directly to an organization's internal network. Cisco offers an authentication scheme based on the Extensible Authentication Protocol (EAP) called EAP-Cisco Wireless or LEAP. This uses the 802.1x draft standard as a foundation and adds modifications necessary for wireless LANs.

Virus scanning.
Anti-virus products are now available from a number of companies. The latest Pocket PC 2002 version contains an anti-virus API designed by feedback from software companies creating virus-scanning products. This is intended to simplify their process for finding new potential viruses by easily detecting new files coming onto the device through different mechanisms (e.g., attached to e-mail, cut and paste from a network file server, etc.) These products are intended to prevent known viruses from being passed into the corporate network via a Windows Powered mobile device.

Applications
Pocket Excel and Pocket Word are integrated into the operating system. This allows viewing documents and making changes while away from the PC. Other applications are amongst others Media- and Video players (for MP3 and MPEG4)
Through the open nature of the Pocket PC Operating System, many third-party applications,e.g. car-navigation or database systems run on Pocket LOOX. With Pocket Outlook, a powerful organizer is also embedded. Not only does it keep track of appointments, with several reminder functions, it also manages contacts and tasks.
The GSM/GPRS module gets its phonebook out of the Pocket Outlook Contacts. No need to enter phone numbers separately.

Additional Software

Truefax by KSE

Numerous function support in preparing and dispatching fax documents. This enables to easily prepare and collect faxes and sent them via FaxOnTheJob (i.e. prepare several faxes before sending them all together in one go). The integrated document management helps to manage all faxes, whether they are sent, received, deleted or prepared for the dispatch.

Pocket Informant by Web Information Solutions, Inc.
Pocket Informant is a Personal and Business Information Manager expanding built in Contacts/ Calendar/ Tasks applications with more powerful full featured versions in one integrated application. It contains amongst other things the following features:

1. Calendar view with Week, Agenda, and Month View
2. A special Task view
3. A special Contacts View

FileCrypto Personal Edition by F-Secure
F-Secure FileCrypto for Pocket PC Personal Edition is a file encryption application that provides protection against unwanted data disclosure. With this application, special encrypted folders for storing confidential and personal information can be created. All files stored in the encrypted folders are automatically encrypted when the folders are locked, sensitive information remains always safe.

Virtual Display by Nyditot
Nyditot Virtual Display 2.0 enables Windows CE devices to display at virtually any resolution, including industry standard VGA, SVGA, XGA, etc.. Even custom resolutions such as 900x300 or 2000x2000 can be defined! Output can be viewed at full-scale or compressed to fit your display. An innovative, onscreen control allows the virtual display to be dynamically panned and zoomed. Any of four orientations can be chosen: normal, rotated 90° in either direction to accommodate both left and right-handed users, even upside-down. On Pocket PC devices, landscape modes offer an aspect ratio similar to the desktop. Landscape with high resolution produces a perfect solution for running thin-client applications designed for larger desktop displays or for viewing websites as they were meant to be viewed.

- Any Resolution (VGA, SVGA, XGA or custom resolutions)
- Any Orientation (normal, landscape or upside down)
- View in Panned or Compressed mode.
- Pan with onscreen control OR cursor keys

ClearVue Office by Westtek
ClearVue Office is a package of Document, Presentation & Worksheet File Viewers. It provides the ability to view Microsoft PowerPoint, Excel and Word files in their native file formats (extensions .ppt, .xls or .doc). ClearVue Office supports most native viewing capabilities present in Microsoft Office 97, 2000 and 2002 (XP) files without the requirement for a filter or conversion step.

Service & Quality

Service
2 years Global Limited Standard Warranty
For the Pocket LOOX, Fujitsu Siemens Computers offers a send-in warranty (also called return-to-base warranty) for a period of two years after purchase.
End-users will find the details of this warranty statement and contacts to the Fujitsu-Siemens web-service and national helpdesks in the product package.

End-user Service at Fujitsu-Siemens
The international network of Fujitsu-Siemens Service Organizations and Authorized Service Partners offer its services and warranties directly to the end-user. For claims of legal warranty and assistance the owner of a Pocket LOOX may contact his dealer, but customers can rely on Fujitsu-Siemens: Global access to web-support, helpdesk assistance and Fujitsu Siemens local service centers guarantee customer satisfaction even in case of operational problems.

Fujitsu Siemens national helpdesks will assist end-users in remote troubleshooting and will - in case of hardware problems - guide him through the repair process for his Pocket LOOX.

The Fujitsu-Siemens web-site offers up-to-date information about country-specific services and free download service for the complete bit-image of updated Pocket PC 2002 versions for the Pocket LOOX as well as drivers
and a variety of free software applications.

Within the scope of warranty, labour and materials for the repair will be free-of-charge, as well as the return shipment to the repair center in the specific country.

Top-Up Services
A Top-Up Service Package can be purchased which offers warranty extension up to three years and fast reacting next-day service by ship & collect exchange of a defective Pocket LOOX.

Easy Guide
The Easy Guide is a CD delivered with every handheld. It contains all the information you will need to successfully operate your handheld.

Driver and Technology CD
More detailed information on handhelds can be found on the Internet: www.pocket-loox-www.com

Quality
Fujitsu Siemens Computers brings the latest technologies to market and guarantees the quality and performance it represents.
Great care is taken with the selection and qualification of suppliers; special attention is given to compliance with international standards and to exhaustive function tests both on components and on the system as a whole.

Fujitsu Siemens invests heavily in designing its own handhelds and building them in the most cost effective way, this guarantees control over the whole design and production process.

Technical overview

System, processors, architecture
Intel® PXA250 Applications Processor at 400 MHz based on Intel® XScale™ microarchitecture

Memory
32 MB ROM, 64 MB RAM

Display
240 x 320 colour reflective TFT TouchScreen, 65.536 Colours, light sensor with autodim
Active Area: 53.6(H) x 71.5(V), 0.22 mm pixel pitch

Interfaces
Built-in microphone,
Speaker,
Headphone (3,5mm), headset via Cradle connector
IrDA (115 KB),
USB 1.1, Serial,
Power jack

Operating time
Standby: up to 100h
Working: up to 10h (depending on usage)

Battery
Included in the device, backup portion included in the battery
Lithium Polymer, rechargeable;
Capacity: 1520 mAh

Power supply
100 to 240 AC (50 to 60 Hz) to 5 V DC 2,4 Amp (switched), with EU cable, UK cable additionally available, standard in UK versions

Dimensions (W x D x H)
132 x 82 x 17 mm

Weight
175 g

Ergonomic Features
Five-way navigation button
Touch Screen for stylus or fingertip
3 way Scroll button (up / down / enter)
Voice record button
Status LED
Power on / off
5 customisable buttons (4 at front, one on the left side)

Standard Delivery Package
Handheld device
USB Docking station
Protection bag
USB sync cable
Stylus
AC Adapter with cable (Country specific)
Companion CD
Pocket LOOX AddOn&Doc (CD)
Easy Guide (printed manual)
Getting Started (printed manual)
Safety instructions and warranty booklet

Bluetooth module
Power Class 1 (high range)
Profiles: Serial, File Transfer, Personal Area Networking, Dial Up, LAN access, FAX
Point to Multipoint
Bluetooth hardware on/off switch

Import and usage of wireless technologies
According to country-specific regulations

Warranty
Country-specific terms

Expansion Slots
SD/MMCard
Compact Flash slot type II

Operating system
Microsoft Pocket PC 2002 Software

Applications
Fujitsu Siemens Computers SpeedMenu
Plugfree for Pocket PC (Bluetooth software)
Pocket Outlook, Pocket Word, Pocket Excel, Calculator,
Terminal Services Client,
MSN Messenger
Pocket Internet Explorer, Microsoft Reader 2.0
Windows Media™ Player
Transcriber
Voice recorder
Microsoft Active Sync 3.5
SyncSoftware support (MS Outlook 98, 2000 and 2002)

Additional software
KSE Truefax – Tool for sending and receiving fax documents
Web Information Solutions, Inc. Pocket Informant - Personal and Business Information Manager (
F-Secure FileCrypto for Pocket PC Personal Edition – Security Software for encryption of folders and storage cards
Nyditot Virtual Display – Software for switching the display to landscape modus
Westtek ClearVue Office – Document, Presentation Worksheet File Viewers

Options / Accessories
WLAN CF Card,
IBM microdrive,
SD/MMCards
GSM/GPRS plug-on module (as of Q4/2002),
Second battery plug-on module (Li-Ion),
Foldable keyboard,
Leather case,
Leather combo case
USB Docking station,
Stylus,
AC adapter,
Car adapter,
USB sync cable,
Serial sync cable
Additional accessories like GPS Card, LAN Card and much more will be available on a project bases.

Further information and contacts

Internet	http://www.fujitsu-siemens.com/pocketloox
Extranet Sales and marketing, advertising and technical media for business PCs	http://extranet.fujitsu-siemens.com/pc/handheld
explicIT magazine	http://extranet.fujitsu-siemens.com/cafe/marketing/explicit
VIL-WWW Internal Partners	 http://vil.mch.fsc.net http://vilpart.fujitsu-siemens.com
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Company stamp

Last changes September 6th, 2002:
-some corrections