



*"Yes, that's right.
We're quoting 16 million.
Keep your fingers crossed."*

**Philips
Crypto**



PHILIPS

Industrial espionage, that's what's happening.

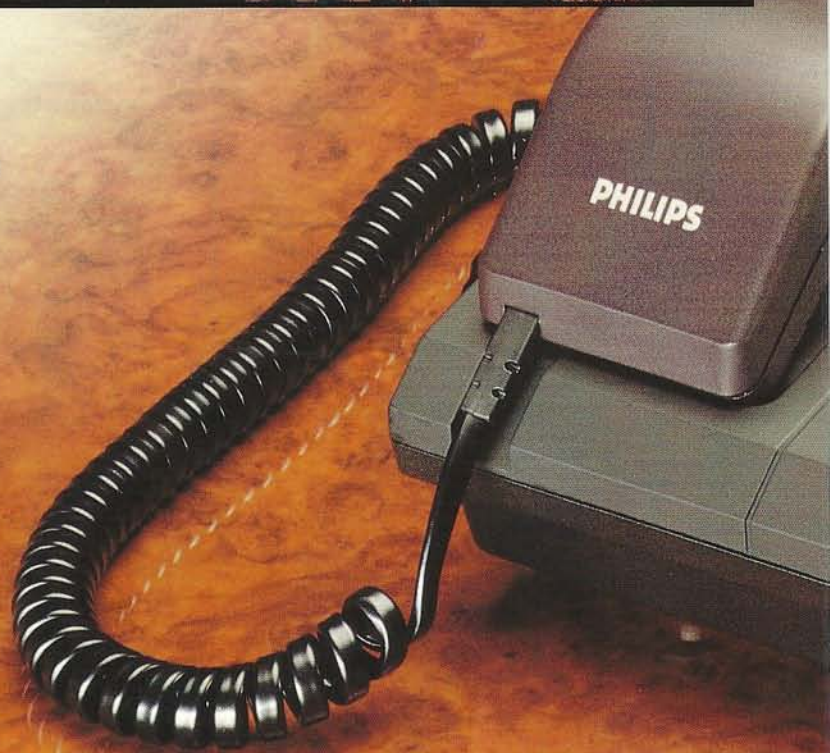
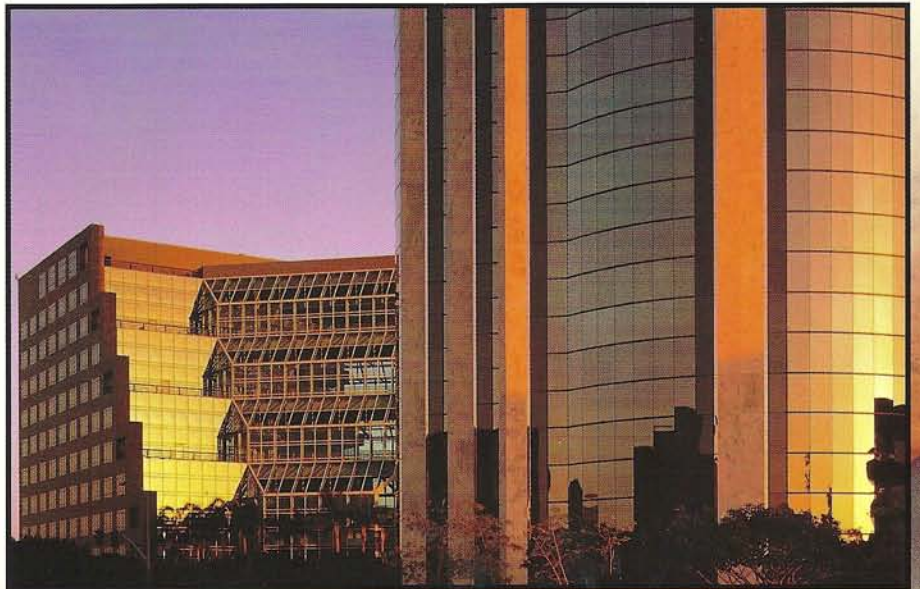
Every call your company makes can be heard. Every fax and data communication can be monitored. It makes no difference if the network is public or private. They both radiate data. So it's easy to pick up the signals. Anyone can buy the hardware, put it in a van, and park outside your offices or research labs. Monitoring systems are even sold in high street shops.

"Industrial espionage is costing European companies at least 100 billion Ecu a year!"

Cryptography solves the problem. This technology is widely used in government and diplomatic circles. And it can work for your organisation.

Crypto telephones, plus crypto fax and data equipment provide 100% protection.

They're cost-effective, easy to install, and very easy to use. Use them to protect your research findings, your financial results, your tenders, all your confidential information. Use them before your next big tender.



Philips crypto phones
deliver peace of mind



The Philips Spendex 9600
crypto telephone.

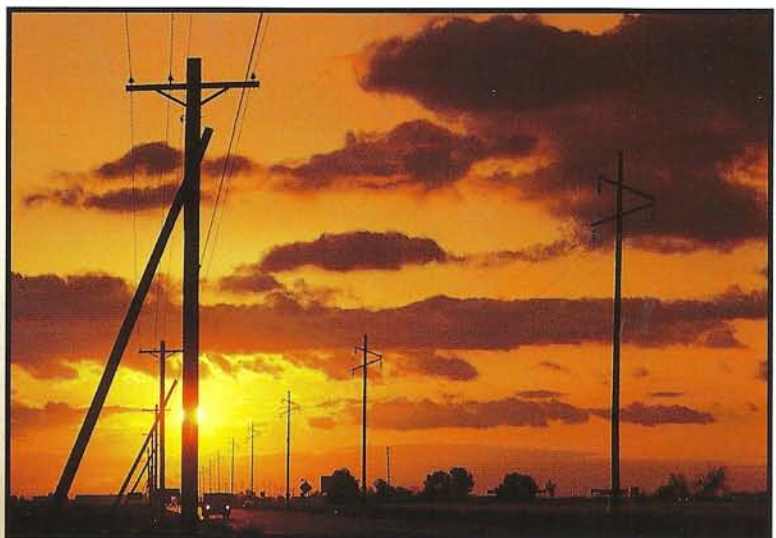
Why Philips cryptography is totally secure

Cryptography enables secure communications because signals are encoded with a secret "key". Anybody who listens in to an encoded conversation will only hear noise. Thus the call only makes sense when it's decoded with the same key; that's the basic concept. Encoding and decoding is performed at high speed by the crypto phones. These processes are automatic and transparent; users hear no difference between regular and crypto modes of operation.

"A different encoding key is used for every user pair, every time they communicate."

Access to a Spandex 9600 crypto phone is enabled by a smart card and a Personal Identification Number (PIN). When a communications link is established between two Philips crypto phones, one party presses a button and the phones then exchange the identity of their (authorised) users. It's that simple; the rest is automatic.

The link becomes totally secure since the conversation is encoded with a random session key, i.e. every conversation, between every user pair, is encoded with a unique, one-time key.



A crypto phone can be installed in a matter of minutes. Thus it is extremely easy to establish a network of safe lines throughout your organisation. You nominate the authorised users, who are given a smart card and PIN number. Totally safe communications can then commence.

Cards can be supplied by Philips; they are programmed and personalised in total secrecy. Alternatively you may decide to employ our PC-based, key management system and "do-it-yourself".

Safe lines for authorised users

Philips crypto phones can also be used to enable secure file transfer between PCs. The serial RS 232 port is simply connected to the crypto phone and PC-to-PC communications can then proceed. The same facility can be employed for facsimile. This application may be facilitated by placing the receiving phone in the "auto answer" mode. Secure communication across different time zones is then enabled.

In addition to phones, the Philips crypto offer includes a dedicated fax encryptor and cryptographic systems for various types of data transmission.

"Encryption is automatic and transparent. Listen in and you only hear noise."

Impressive, but can it be broken? Never say never. Spend several million dollars on supercomputers; take a few centuries to analyse all the calls; and maybe it could be done. Maybe. But clearly nobody has so much money, and time.

For more information on "peace of mind" communications contact Philips Crypto. See rear cover for address details.





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PHILIPS CRYPTO

PROTECTS INFORMATION IN TRANSIT