



Speech Encryption Unit **Insta Voice*Crypto**



When confidentiality
is essential

Top-level information security and global mobility for military, governmental and business use.

One device in the office and on business trips, during peace and crisis.



Insta Voice*Crypto speech encryption unit for mobile and landline phones



PSTN, mobile or IP network

Insta Voice*Crypto

Technical data

- Size:** 130 x 80 x 30 mm
- Case design:** One-hand operable, protection class IP30
- Weight:** Max. 250 g
- Battery:** Operation time 1 h
- Security:** Smart card or pre-shared secret authentication, strong encryption
- Smart card:** PKCS smart cards, X.509 certificates
- Interfaces:** PSTN, telephone set, handset, Ethernet TCP/IP, Bluetooth option
- Bluetooth:** Specification V1.1, class 1 device
- PSTN modem:** V.34/V.42/V.42bis
- User interface:** Keypad, graphical display, led indicators
- Algorithms:** RSA 1024-2048 bit, AES 128-256 bit
- Performance:** PowerPC 32 bit RISC CPU
- Maintainability:** Updatable flash memory
- Operating system:** Realtime Unix (Posix) or Linux
- Accessories:** Ruggedized protective case

Single-unit solution for growing security requirements

Ever increasing cooperation requires mobile, secure and fast phone connections. While the developers of telecommunication and network security work to protect confidentiality, offending parties and counterforces develop methods to utilize potential flaws in information security.

As an answer to the challenges we have used our high-tech expertise to develop Insta Voice*Crypto; a secure, global, easy-to-use, updatable and economical solution with multiple connection alternatives in one unit.

Secure superiority in compact pocket size

The Insta Voice*Crypto speech encryption unit is a unique device, on global

terms. The small, palm-sized unit offers versatile connectivity to existing table phones, mobile phones and IP networks. It ensures the absolute security of confidential phone discussions around the world.

The Insta Voice*Crypto multi-use product contains features with which it surpasses all presently used speech encryption devices and systems one by one.

- Security level based on strong encryption, smart card identification and PKI is higher than in encryption devices based on fixed keys.
- Insta Voice*Crypto utilizes present table phones, mobile phones and IP connections for trusted calls.
- Palm size and battery operation guarantee mobile use with connections all over the world.
- Elegant and user-friendly design, very easy to use and easily deployed.

Secure communication solutions and services for demanding environments

Easy and secure solution

Insta Voice*Crypto is an extremely secure and easy-to-use solution for those who need strongly encrypted speech calls.

In order to establish a secure connection you only need two Voice*Crypto units and an existing speech or telecommunications network. With landline telephones, the Voice*Crypto unit is connected directly to the telephone network, or positioned between the handset and the telephone set. With Internet calls, the unit is connected directly to the IP network. With mobile phones Voice*Crypto uses secured bluetooth connection.

Group calls are provided as an alternative to several individual calls. Voice*Crypto supports group calls with an optional conference call server facility.

Users are authenticated with a personal, protected and secure smart card. The card holds all confidential information, such as electronic identity and encryption keys of the user. This way several people can use the same device securely with their own personal smart cards.

Maintenance and operation services

Insta Voice*Crypto can also be supplied as a turnkey solution. In addition to the device itself, we provide management and authentication solutions, as well as consultancy and customer support services, which mean that you can leave all issues related to operation of the system to our experts. Our Service Center has been awarded the BS7799 information security certificate, which guarantees the high quality of our service.



Voice*Crypto with mobile phones.

Voice*Crypto with IP Calls.

Voice*Crypto with landline phones.

Insta Voice*Crypto

speech encryption unit in a nutshell

	Insta Voice*Crypto features:	User benefits:
Security	• Strong encryption, certificate-based authentication, smart card support	• Safe, well-known and updatable security level
	• Speech quality maintained	• Other party can be identified by voice
	• Shows identification data of the other party	• Instant information on the reliability level of the other party
	• Informs if the user is on the "black list"	• Using wrong identity is made difficult
	• Uses commercial PKI smart cards	• Tamper-proof security, strong authentication with a PIN code, standard PKCS cards can be used
Easy operation	• Can be deployed both with mobile, landline and IP calls	• Same device can be used in the office, on a journey and in different networks, cost savings
	• Battery-operated	• Mobility, can be used anywhere
	• Pocket-sized	• Portable
	• Operates also with low data transfer speeds	• Reliable operation and high usability also in poor conditions and with low quality connections
	• Connects to the network through the phone	• Global usage: not dependent on the local telephone socket format, can be used with analog and digital switchboards
Economical	• Uses a wireless Bluetooth connection to the mobile phone	• No data cables needed, compatible with a wide variety of telephone vendors and models, operable also with future Bluetooth data phones
	• Programmable and updatable	• New features as requirements change; a secure investment
	• Supports also IP calls, can be used as a secure internet phone	• Low-cost IP connections, no separate terminal or phone needed
	• Anonymous unit, all user and critical data in a smart card	• One unit shared between several users



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Insta DefSec's Security Systems is a global information security specialist developing and supplying networking and information security solutions. We focus on innovative solutions and applications for customers with high quality and security requirements. Our top-level expertise and technology, combined with our certified operating practices, have ensured us an internationally recognized position as one of the leading security companies in the market.