

## VISOCALL-IP.

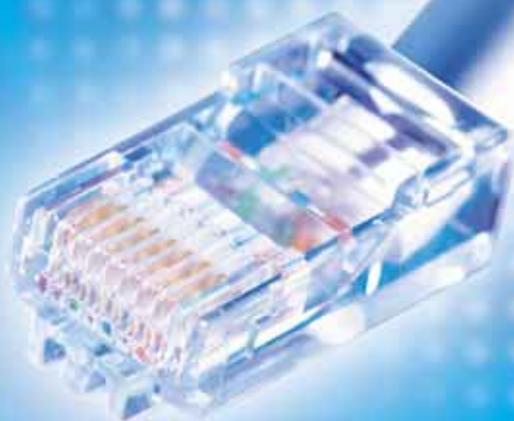
The future-oriented communications platform for healthcare.

HEALTH CARE

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**SCHRACK**  
S E C O N E T

# VISOCALL-IP. The new common technology platform for communications, organisation and care.



- **Future-oriented platform for many applications**
- **The highest level of security and system availability**
- **Cost saving installation process, low maintenance costs**
- **Uses its own communications LAN**
- **Auto-disconnecting plugs minimise maintenance costs**
- **Antimicrobial version of handsets reduce the risk of spreading pathogens**
- **Status messages can be received from other systems or passed on to other systems (e.g. fire alarm systems)**
- **Greater convenience for staff members and patients alike**
- **Backward compatibility with VISOCALL PLUS and VISOCALL MP2 systems**
- **Conforms entirely to VDE0834**

### **A completely upstream open system.**

In its basic form the VISOCALL-IP carries out all important system functions: Nurse-call communications, IP telephony, smart card system, electro-acoustic functions, and Intranet and Internet services for staff and patients. Furthermore VISOCALL-IP is video streaming ready.

### **IP – Proven a million times over.**

IP (Internet Protocol) forms the foundations for the Internet, and therefore is the mostly widely spread, upstream open technological platform for all communications tasks.

With the help of IP, intelligent systems or networks within larger networks can address one another easily, and establish secure connections between each other.

### **Information, which always arrives.**

With IP, information is split into data packets, which are able to “travel” via different routes, and are only recompiled when they reach their destination. This is what makes communications over IP so secure: If one route is blocked, then the system automatically looks for an alternative route until all the data has arrived at its destination.

### **VISOCALL-IP.**

#### **The highest level of security, low costs.**

VISOCALL-IP is a decisive step forward for the increasingly more complicated needs for communications in the healthcare sector.

As a communications platform capable of handling multimedia, VISOCALL-IP combines several traditional functions in a single system. Thanks to future-oriented IP technology and its

own communications LAN, it offers the highest level of security against system failure and ensures permanent system availability. In addition, it also boasts a simple installation process, comprehensive compatibility and substantial servicing advantages.

### **Relief for Staff Members.**

Reducing stress is one of the most effective measures for minimising errors, and being able to react quickly and efficiently in emergencies. VISOCALL-IP supports your staff in many ways in this manner – e.g. by splitting service and nurse calls, by giving the patient greater independence when carrying out simple tasks, by using fail-proof devices, by its clear displays and clear information using light modules.

### **Rapid assistance and modern convenience for patients.**

VISOCALL-IP raises the alarm in a focussed way: A heart alarm, for example, is sent straight to the correct location without any diversions, thereby allowing competent assistance to arrive on the scene more quickly.

The operation of all devices from the hospital bed, such as the integrated telephone and Internet access for a private laptop, are practically taken for granted nowadays. However, IP technology opens the door for many functions in the future, such as operating modules for the most severely disabled.



#### **New: Auto-disconnecting plugs.**

The patented auto-disconnecting plugs automatically unplug themselves in the event of being pulled in any direction.

#### **New: Internet connection for private laptops.**

Opens up a wide range of perspectives: The Internet connection for private use at every patient bed.

#### **New: Splashproof & antimicrobial.**

The antimicrobial construction of the sealed splashproof handsets decreases the risk of spreading of pathogens.



# VISOCALL-IP.

## Prioritised operational security and economy.



- **Highest level of protection against system failure, permanent self-monitoring and system availability**
- **Reduced overall investment and maintenance costs**
- **Standard network technology proven worldwide**
- **Future-oriented platform for many applications**
- **Uses its own communications LAN**
- **Interfaces to other systems – such as fire alarm system, DECT, pagers, alarm server, billing systems etc.**
- **Backward compatibility with VISOCALL PLUS and VISOCALL MP2 systems**

### The new solution for the new requirements in hospital communications.

The future-oriented VISOCALL-IP platform has clear advantages for hospital communications, as ensures the operators a considerable head start in performance over other institutions. IP network technology ensures the highest possible protection against system failure and permanent system availability, whilst the plastic used in handsets contains antimicrobial additives, thereby reducing the risk of bacteria, viruses and funguses being transmitted.

### The upstream open standard platform.

By using standard networking technology, the VISOCALL-IP is cheap and easy to install, with decentralised technical support for hardware and software contributing considerably towards keeping the servicing expenses to a minimum. Existing systems remain fully operational: The VISOCALL-IP's backwards compatibility with all VISOCALL systems safeguards previous investment.



### Uses its own communications LAN.

VISOCALL-IP uses its own communications network, therefore ensuring that there is also no external interference or interference with external networks. VISOCALL-IP however communicates with third party systems via interfaces and swaps information with other systems, such as the BMZ Integral fire alarm control panel, alarm servers, billing systems, DECT and paging systems.



### Benefits for management and technicians.

The deployment of IP network technology and the use of standard components considerably reduce the installation costs. Only a small number of staff members are needed to operate the system. Servicing costs are reduced to a minimum, with the billing system enabling additional income flows without increasing staff workload.

### Remote maintenance saves servicing costs.

The flexible real-time fault management system and an easy-to-use log management process enable rapid and efficient intervention. Centralized firmware uploads and the centralized configuration process, the possibility of remote maintenance or remote diagnosis direct to the patient terminal and the plug-in RJ45 connections which are low maintenance ensure decisive cost savings in all modules.



### A Comprehensive System.

- Nurse-call communications system with a comprehensive range of signalling and speech connections between patients and nursing staff as well as among nursing staff members
- IP telephony end devices in accordance with H323 and SIP standards are integrated into patient handsets
- Smartcard system for processing and billing telephone, television and internet access charges in accordance with different charging models
- Integrated electro acoustic features, such as digitizing and distribution of radio programmes and merging of other low frequency signals from traditional ELAC systems
- Intranet and Internet access for staff and patients
- Ready for video streaming

### Security – in operating and functional terms.

- VISOCALL-IP is fully VDE0834 conformant
- No centralized control: Total system failure is therefore impossible
- Every system-specific interface is galvanically isolated in accordance with DIN EN60950 or VDE0834
- IP data packets are prioritised in the LAN
- The self-monitoring feature of all modules increases the overall security of the entire system

### VISOTAX PLUS. An additional source of revenue.

Whilst considerably improving conditions for patients, staff members also profit – and operators are given additional sources of revenue: The VISOTAX PLUS smartcard system is used for processing and billing telephony, TV and Internet charges. It can be configured using different charging models, and can therefore be adapted to suit any requirement.

# VISOCALL-IP. Reducing the burden on staff members pays dividends.



- **Separate alarm management for doctor call and heart alarm**
- **Service call lightens the load for qualified nurses**
- **Stress-free operation**
- **Automatic functional processes**
- **Clear representation and overview of calls, alarms etc.**
- **Non-nurse call events are always displayed at the "right" place without delay (e.g. fire alarms)**
- **Auto-disconnecting plugs minimize failures due to physical damage**

**A convenient overview:  
The ward terminal.**

The current functional status for the entire care area is always visible at a glance: All functions are displayed clearly on a 6" colour graphic display and can be queried simply using interactive operating keys. The ward terminal automatically processes incoming calls, to ensure that the user is always presented with the highest priority information.



- An overview of all events in the whole area
- Extended scope of functions
- Simple stress-free operation
- Interactive keys
- Interactive on-screen content
- 6 inch colour TFT display

**The communications terminal.  
Everything under control.**

When everything has to happen quickly again: The system's clear construction and logical structure minimises the risk of incorrect operation. Three large presence keys for nurses, service calls and doctors, keys for calls, doctor calls and communications, the three line fully graphical display and three interactive keys to the right of the display transform the communications terminal into an intelligent remote station. Easy to remember: Doctor functions in the system are all blue!



**Additional functions,  
simple installation.**

Thanks to the integrated radio controlling, the preparation of the multifunction keys as special function keys, the built-in microphone and loudspeaker and the simple installation using a plastic frame mounted on a standard installation case, the terminal gains more plus points.

**The Light Module:  
The colour says it all.**

The five light strips – in green, yellow, blue, red and white – are used to signal the most important information so that it can be seen from a considerable distance. The light modules with their 5 LED chambers can be configured as room, direction, nursing group or ward lamps.



- 5 LED chambers with light reflectors for homogenous illumination
- Green, yellow, blue, red and white
- Every module contains an integrated short circuit isolator

**Minimising the stress factor.**

VISOCALL-IP places all functions at your nursing staff's availability, so that they are able to act quickly and efficiently, even when under extreme pressure. For example service and nurse calls are separated, with specific activities being delegated to the patients, with fail-proof devices, clear displays and clear information using light modules.

**VISOCALL-IP raises the alarm  
in a focussed way.**

Even just by triggering the call, the relevant location is reached or given the alarm. A heart alarm, for example, is sent straight to the correct location without any diversions, thereby allowing competent assistance to arrive on the scene more quickly. Non nurse call events (e.g. fire alarms) are always sent to the right place without delay.

**Clear allocation: Types of calls.**

Regardless of whether there is a service call, patient call, enhanced patient call, nurse emergency call, WC call, WC emergency call, doctor call, diagnostic call or a heart alarm – light modules in the corridors and the clear indications on various system displays show at a glance what measures must be taken.

# VISOCALL-IP. Modern convenience and total security for your patients.



- **Now only a single device to operate all available services**
- **Internet access from private laptops**
- **Splashproof and antimicrobial construction**
- **Contact-free card reader for simple billing**
- **High quality sound for speech, radio, television and telephone**
- **Integrated infrared receiver**
- **Future developments can be easily integrated – e.g. for the most severely disabled**

**Everything can be controlled with a single device.**

Patients can control all available services from their hospital bed using the new patient handset – such as nurse calls, radio, television, telephone, blinds, and operating electrically adjustable beds etc.



**Built-in contact-free smartcard reader.**

Using the VISOTAX PLUS billing system's smartcard, the user is able to access all of the Multimedia Terminal's and the telephone's functions, and to access the Internet. A contact-free smartcard reader is built into the patient handset – user charges are billed as cashless transactions.



- All the standard nurse call functions, as well as an additional service call function and integrated IP telephony handset
- Speaker phone feature when used in the cradle
- TV and radio controller
- 3 line fully graphical display
- Auto-disconnecting plug
- Contact-free smartcard reader
- Headphones socket
- Integrated infrared receiver
- Splashproof construction

**Antimicrobial Construction.**

Pathogens have no chance: With a case made out of plastic and the operating membrane keypad containing antimicrobial additives, the highest level of hygiene is ensured - thereby assisting staff members in the otherwise very laborious cleaning process. Water also has no chance: The splashproof case ensures that nothing happens, even if something does happen.

**Connection to the outside world even for the most severely disabled.**

The integrated infrared receiver interprets the signals, which the patient sends using the type of trigger which is most suitable given his condition. The spectrum of possibilities ranges from a large button, across voice recognition systems and switches that respond to breathing to sensors which "translate" the blinking of eyelids. The VISOCALL-IP's infrared interface can be configured for every input device and it therefore well-equipped for all future developments.

**Auto-disconnecting plugs: The cleverer device gives in.**

In the event of strain in any direction, the self-disconnecting plugs give in, and pop out of the plug module. This protects the sensitive LAN contacts and prevents mechanical damage – for example when the patient bed is moved.



**Multimedia Terminal. Information and entertainment on a jointed arm.**

The flat panel Multimedia Terminal makes a stay in hospital varied, informative and relaxing. As well as television, Teletext, radio, internet and reading light functions, it also has extra inputs for DVD players and games consoles. It is a multifunctional communications centre with excellent picture quality, with a timeless design and which is simple to operate.



# VISOCALL-IP.

The building blocks of the system.



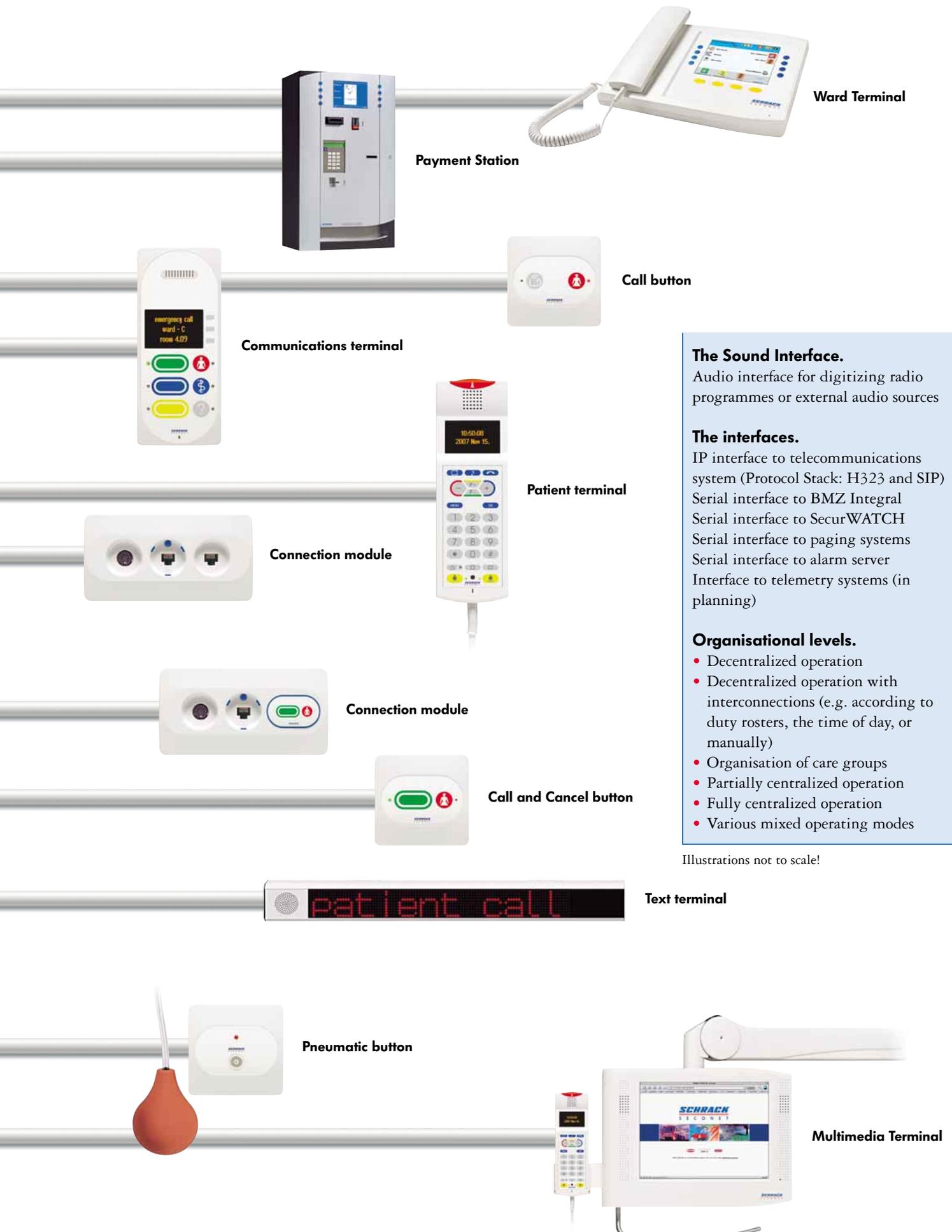
**Control Panel**



**Light module**



**Pull button**



Ward Terminal

Payment Station

Call button

Communications terminal

Patient terminal

Connection module

Connection module

Call and Cancel button

**The Sound Interface.**

Audio interface for digitizing radio programmes or external audio sources

**The interfaces.**

- IP interface to telecommunications system (Protocol Stack: H323 and SIP)
- Serial interface to BMZ Integral
- Serial interface to SecurWATCH
- Serial interface to paging systems
- Serial interface to alarm server
- Interface to telemetry systems (in planning)

**Organisational levels.**

- Decentralized operation
- Decentralized operation with interconnections (e.g. according to duty rosters, the time of day, or manually)
- Organisation of care groups
- Partially centralized operation
- Fully centralized operation
- Various mixed operating modes

Illustrations not to scale!

Text terminal

Pneumatic button

Multimedia Terminal



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