## **Software**



## Visocall Mobile

Visocall Mobile is used for answering and processing of calls via smartphone. It allows care staff to communicate with patients and staff anywhere, anytime.

## **Control panel**

The ward control panel ensures clear and simple indication and operation of the Visocall IP system. The graphic interface provides clear ward plans, interactive room buttons, event lists and context-related control buttons. It thus provides a clear overview at any time of the events occurring in the respective ward.



## Event database

The event database is used to support care documentation. All calls, staff presences and system events are recorded with time, date and corresponding information about the ward and the room name. The database can be searched for events depending on a time period and/or a location, whereby the indication and evaluation of the serverside stored data takes place via web browser.



## System Monitor

The System Monitor is used for building service departments to evaluate system changes and fault memories or to indicate system faults. It has password-protected access and can manage several Visocall IP systems.



## Audio Manager

The Audio Manager enables targeted announcements, voice prompts or calls to patients and staff. By assigning inputs, audio content can be sent to predefined wards and general announcements can be controlled by external systems.



## Patient Management

The patient management is used to collect, indicate and print important patient data, which should be indicated immediately on the screen when a call is received. The patient data is required for the entries in the event database, but can also be used optionally, e.g. for the recording and billing of fee data or for detailed indication of alarms from the RTLS.

# **Installation height**



# **System limits**

The configuration of communication systems as well as the installation, commissioning and maintenance of the products (and the systems built with them) require special expertise and may therefore only be carried out by trained specialist personnel.

## **General:**

- max. 75 wards
- max. 130 rooms per ward
- max. 16 beds per room • max. 6 system switches per cascade
- max. 8 sum criteria per system switch
- max. 2000 IP components per Management Center
- max. 1000 IP components per Logical Delivery Point

## IP components:

- max. 100 m cable from uplink
- max. 100 m cable to communication terminal
- max. 60 m cable to connection module / Staff Terminal • max. 60 m to connection module / patient handset
- max. 7 patient handsets per system switch

## IO bus:

- max. 20 rooms without speech per system switch
- max. 1200 m cable length
- max. 127 participants
- max. 500 mA per IO-bus

## **Basic components:**

• max. 50 m cable length to basic components









# Future-proof thanks to IP technology

The increasing demands of a modern hospital require intelligent solutions for planning, implementation and future expansion. Conventional systems no longer meet these requirements in terms of functionality and life cycle costs. System integration with mature IP technology creates new possibilities:

- A powerful network for a wide variety of services and functions avoids a large
- number of individual installations, cabling expenditure and investment costs.
- System integration offers higher availability and reduced maintenance and operating costs over the entire system life.
- Simple data exchange using the Internet protocol overcomes conventional barriers and enables the smooth interconnection of various trades.







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•	Staff of	call
	•••••	

- Telephony
- Speech connection between patients and staff
- Announcements
- Provision of media content (radio, TV, video streaming,
- Internet, Intranet)
- Control of light, blinds, TV
- Cost effective for installation and operation
- Secure, modular and expandable system Plug-and-play modules reduce structure offers planning freedom for all commissioning and maintenance costs functions and services in the care sector • Durable and low-maintenance products
- For all forms of organisation in the health sector • Suitable for centralised, decentralised • Large selection of devices for
- and mixed organisational forms
- Care organisation across ward boundaries
- Call prioritisation for fast and targeted response (emergency calls, Code Blue, etc.)
- Reliable, standard-compliant and safe
- Highest reliability due to decentralised, intelligent modules
- Redundant structures for
- uninterrupted system availability • Clear prioritisation of network services by means of quality of service

- Logging care data Cost accounting
- Connection of external systems (alarm server, RTLS server, fire alarm system, DECT telephone, VoIP telephone system, external audio system)
- Information from external devices (medical devices, sensor mats etc.)

- exact adaptation to the requirements for care
- Intuitively operated devices for staff and patients

• Permanent and automatic

safety and reliability

• Visocall IP is certified according

to VDE 0834 and thus meets the

highest requirements regarding

function control

# **Patient handsets**

	PAT	PAT-E	PAT-L	BT-IP	BT-B
Call button (red) with locating and reassurance light	•	•	•	•	•
Room and reading light control (optional KNX)	•	•	•	•	•
Case and keypad have an antibacterial design	•	•	•	•	•
Intellifix ejector plug	•	•	•	•	•
Call function with communication option	•	•	•		
LC display with position alignment and automatic brightness adjustment	•	•	•		
Headphone socket	•	•			
Service call with speech option	•	•			
Radio function	•	•			
Channel selection and volume adjustment for system TV	٠	•			
Integrated IP telephone	•	•			
Secocare Data	•	•			
Secocare Assist	•	•			
Blind control (optional KNX)	٠	•			
IR reception for the integration of environment control devices	•	•			
Automatic volume switching	٠	•			
Menu-driven user guidance	•	•			
Numeric keypad	•				
Connection to IP connection modules	•	•	•	•	
Connection to IO bus connection modules or basic connection modules					•



# **Sub-trades and interfaces**



# **Indication and operating panel**



The KMT and KMT-L comfully graphic display, as well as call, presence and function buttons (radio, timer function, etc.).

TV sets For room-by-room or bed-bybed television with operation

.

**TVI-IP** 



**C-bus components** C-bus components for flexible cabling topologies.

ZT-C

## ZTD-C and ZT-C Room terminal with

or without indication, without speech connection, suitable for connecting C-bus components.

## ZE-C

LM-C

Control electronics for connection of pushbuttons, light and diagnostic modules.

# Light module for

optical signalling of information, configurable as overdoor light.



KP-C Connector circuit board for connection of ZTD-C, ZT-C room terminals and ZE-C control electronics.



VC IP - SWITCH

**Management Center** 

Ward switch

ZTD-C

ZE-C

LM-C

Staff Terminal or patient handset.

Pear pushbutton with 2 call

Connection module for connecting

BT-B pear pushbutton, diagnostic devic-

es, radio receiver & power supply unit.

Connection module for connecting

Call pushbutton with one call button.

Cancel pushbutton with control LED.

Pull and cancel pushbutton

Presence pushbotton with two

Doctor call and cancel pushbutton.

receiver with power supply unit.

buttons with control LEDs.

with 2 m pull cord.

and light buttons each.

a BT-B pear pushbutton.

SM-C

SM1-C

RT-C

AT-C

**ZRAT-C** 

AWT-C

ARAT-C



RAT-C Call and cancel pushbutton. PT-C Pneumatic call switch with 2 m pneumatic hose and pressure ball. DMU-C Diagnostic module for connecting a diagnostic device or a radio

System switch as a decentralised communication node for data exchange between the system devices. • IP ports forconnecting IP enabled system devices

- Interfaces for connecting IO bus & C bus devices • 24V outputs for additional power supply
- of system devices Designed for redundant operation
- max. 8 IP ports, max. 8 multimedia terminals max. 2 IO bus per SWI9 or 1× IO-bus, 1× C-bus per SWI9

# **IO-bus components**

Call pushbutton with integrated

locating and reassurance light.

Presence pushbutton with two

Doctor call pushbutton with

integrated locating and reassur-

Doctor call pushbutton with cancel

button with integrated locating and

reassurance light and piezo buzzer.

Call and service call pushbutton

with integrated locating and reas-

surance light, call button and ser-

vice call button with control LEDs.

Pull cord switch with integrated

locating and reassurance light and

Pneumatic call switch with integrated

locating and reassurance light, 2 m

pneumatic hose and pressure ball.

Pull and cancel pushbutton with

integrated locating and reassurance

buttons (green and yellow) with

System devices such as call and cancel pushbuttons, light modules etc. are connected to the SWI9 system switch and thus to the Visocall IP network via its IO-data bus.

• max. 20 rooms without speech per system switch • max. 127 devices per IO-bus • max. 1200 m cable length

RT-IO

AWT-IO

ART-IO

ance light.

ARAT-P-IO

SRT-IO

ZTB-IO

PT-IO

**ZRAT-IO** 

RAT-IO

RAT-P-IO

SSR-IO

IO-M

Call and cancel pushbutton

reassurance light.

light and piezo buzzer.

PAT-L, BT-IP and BT-B.

with integrated locating and

Call and cancel pushbutton with

integrated locating and reassurance

Latching relay for direct connection

of up to 2 independent light sources

(e.g. room light and reading light).

Operation by means of PAT, PAT-E,

Input/output module as bidirectional

and potential-free interface to exter-

thus be forwarded to other systems

ed to other systems or taken over

by other systems.

nal devices. Visocall IP events can

or taken over by other systems.

2 m pull cord.

control LEDs.

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max. 500 mA per IO-bus

## ZTD-B

Room terminal with optical and acoustic call forwarding for all rooms in the ward where no speech connection is required for staff. It has call, presence and function buttons (display brightness / contrast, volume) and is suitable for connecting up to 5 basic components.

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## **ZTD-B-L**

Room terminal with optical and acoustic call forwarding for all rooms of the ward in which no speech connection is required for the staff. It has a call and presence button, function keys (display brightness / contrast, volume) and is suitable for connecting up to 5 basic components

## ZT-B

Room terminal with acoustic call forwarding for all rooms in the ward where no speech connection is required for staff. It has a call and presence button and is suitable for connecting up to 5 basic components.

## ZE-B

Control electronics with integrated circuit board for expanding the functions of individual rooms, suitable for installation in electrical distributors, false ceiling etc. and for connecting of up to 5 Basic components.

## SM-B

Connection module with call and presence button with integrated locating and reassurance light for connecting BT-B pear pushbuttons, diagnostic devices, radio receivers with power supply unit (with disconnection call). Suitable for connecting up to 4 basic components.

## SMU-B \*\*

Connection module with call and presence button with locating and reassurance light for connecting BT-B pear pushbuttons, diagnostic devices, radio receivers or AD-DIA (with disconnection call).

## DMU-IO \*\*

Diagnostic module for connecting diagnostic devices, a radio receiver or AD-DIA (with disconnection call).

## DM-IO

Diagnostic module for connecting 4 diagnostic devices or a radio receiver with power supply unit (with disconnection call).

## **RFID-IO**

Card reader for setting the presence in the patient's room - can be used in combination with communication or room terminals.

## **RFID-IO-FRT**

Card reader for setting the presence in the patient room with function key, call button and control LEDs.

## LM-IO

Overdoor light visible from afar for visual signalling of information, configurable as a room, direction, care group or ward lamp.













### IO-M-P Input/output module as bidirectional interface to external devices with three potential-bearing inputs and three potential-free outputs. Visocall IP events can thus be forward-

light and 2 m pull cord. AT-IO Cancel pushbutton with control LED.













# **Basic components**

Cable length from IO-bus components to basic components max. 50 m.





with approx. 2 m pull cord,

control LED, battery moni-

toring and IP 68 degree of

Radio call pushbutton with

control LED, battery monitoring and IP 68 degree of

protection.

F-RTS-869

protection.

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A01T-L869 and B01T-L869 Pressure-sensitive CareMat sensor mat with integrated radio transmitter and battery monitoring as bed mat for patients in need of care (110 × 70 or 70 × 40 cm).

F-VMS-869 Radio combi-transmitter with call button, battery monitoring and control LED with IP 68 degree of protection in plastic case with elastic wrist strap and neck cord.