

Healthcare Communications



Nurse Call Systems

Versatile System Technical Data

ZKR Versatile

Room Control Unit

Room Control Unit

This unit ensures communication between Nurse Console and Call buttons in the patient rooms. Room control unit is appropriate for both flush and shallow montage. They have 4.3" touchscreen, and standard feature allows it to assist total 9 call unit. Due to appropriate hardware, unit can define up to 9 call unit. Modern and durable structure and software ensures the best operating time. When a bed button is touched on the screen, patient information with in the HBYS software can be seen on the unit screen.



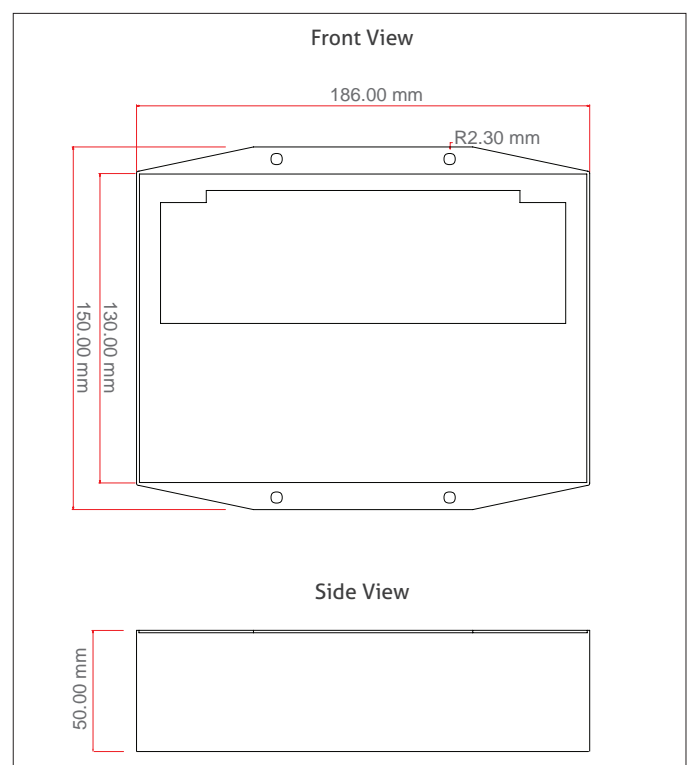
- Ergonomic Design
- 4.3 " Touch Screen
- Simple, Easy to Use Interface
- Card Reader
- PC ABS FR Material

Technical specification

ZKRUNCIPRMCN100

Screen size (inches)	105 mm 6 6mm 4.3 inc Touch Screen
Operating system	ZKR OS
Weight (g)	500 gr.
Width (mm)	188 mm.
Depth (mm)	39 mm.
Height (mm)	132 mm.
Display features	Color Touch Screen, TFT
Screen resolution (px)	640x420
Processor speed	16-24 Bit Flash Microcontrollers 100-Pin
Memory	4-Mbit (256K x 16) Static RAM
Language	English, Spanish, Russian, Turkish Custom
Power supply	110-220 VAC 47-63 Hz
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Material	PC-ABS-FR (Flame Retard- ant)
Card reader	MIFARE Classic
Buzzer speaker	2400Hz 65 dB
Input connection	1-Ethernet,1-RS 485, 2.Light Control
Color	White
Communication	TCP / IP - UDP - HTTP - RS485
Current W	15W

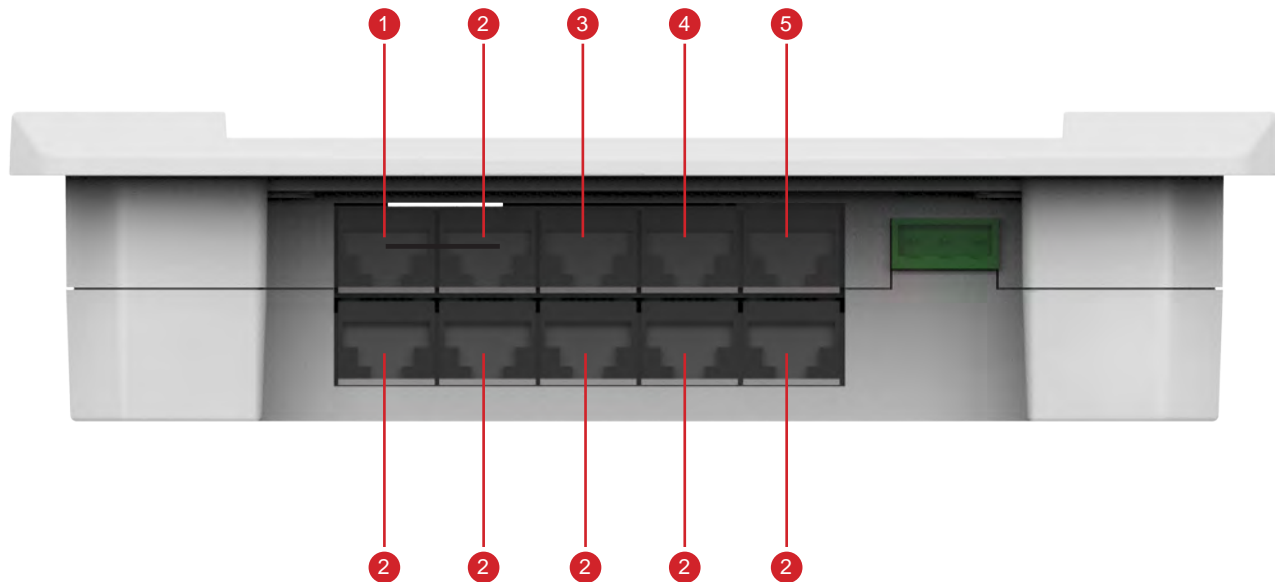
Routine control is a standard feature and allows the staff to report what time they have made a room check without a call. Room control unit's hardware has a card reader. All cards that is read by the unit are asked for authorization check



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Room Control Unit

Input Guide



1. Network

This is where the network connection is enabled. It is coherent with CAT6 cable. The max length of the cable must be 90m.

2. Bedset & WC Call Unit

This is where the call unit is connected. It is coherent with CAT6 cable. The max length of the cable must be 20m.

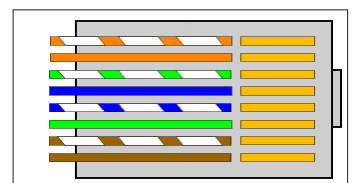
3. Overdoor Corridor Lamp Input

This is where the overdoor corridor lamp is connected. It is coherent with CAT6 cable. The max length of the cable must be 15m.

4. Control 1 / Control 2

These are where the lamp control units are connected. These are coherent with CAT6 cable. The max length of the cable must be 15m.

* Pins and the string of colors must be the same with the example picture.



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Pro Handset

Pro Handset

Pro hand unit allows the patient inform the staff immediately.

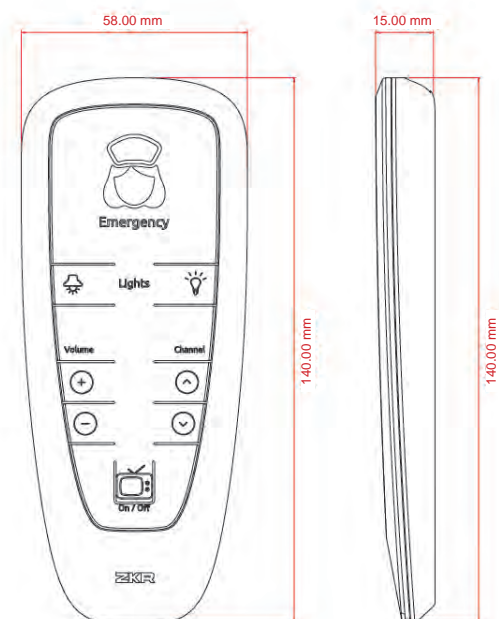
- Easy to use.
 - Unit works though connection to head set unit.
 - TV control option (Channel and Volume)
 - Leds also show the last made call so the patient's condition can be seen on the hand unit like the other warning unit.
- Light buttons help to control room lighting and reading lamp.



Technical specification

ZKRUNCIPHS10200

Weight (g)	115 gr.
Width (mm)	58 mm.
Depth (mm)	15 mm.
Height (mm)	140 mm.
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Cable Lengh	3 Meter Spiral Cable
Material	PC-ABS-FR (Flame Retardant)
Back Light	Yes
Check number of connections	1-RS 485
Color	White



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Room Control Unit

Patient Handset

Patient hand unit allows the patient inform the staff immediately.

- Easy to use.
- Unit works though connection to head set unit.
- Easy to notice with leds on the unit.
- Leds also show the last made call so the patient's condition can be seen on the hand unit like the other warning unit. Light buttons help to control room lighting and reading lamp.



Technical specification

ZKRUNCANHS10100

Weight (g)	115 gr.
Width (mm)	20 mm.
Depth (mm)	50 mm.
Height (mm)	140 mm.
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Cable Lengh	1.5 Meter Spiral Cable
Material	PC-ABS-FR (Flame Retardant)
Back Light	Yes
Check number of connections	1-RS 485
Color	White

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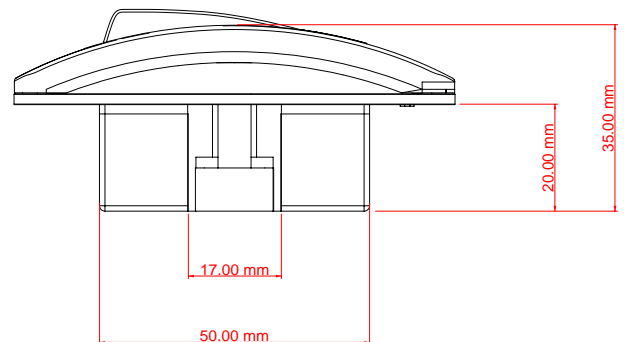
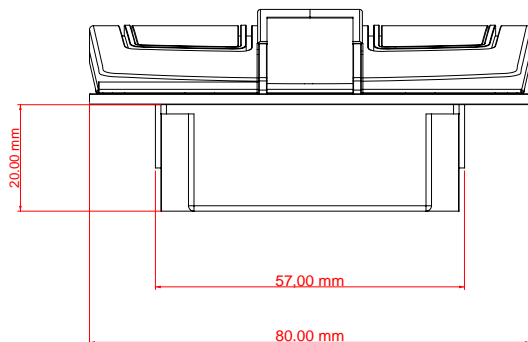
Bed Set Unit

Bed Set Unit

Bed Set Unit is used in the patient rooms. In an emergency, a patient uses the call button to make an emergency call which appears as a signal on the nurse console.

There are call and cancel buttons on the unit which are backlit and modern. Console is mounted on the patient headboard. Bed Set unit is connected to the headboard unit via RJ45 socket.

- This product is also a tool unit for the hand set unit to be connected.
- Can be flush mounted. Ergonomic.
- RJ45 socket provides easy installation.
- High quality PC-ABS-FR (Flame Retardant) raw materials.
- Call and Reset buttons are lighted with leds so they are easy to notice.



Technical specification

ZKRUNCIPWL10100

Weight (g)	56 gr.
Width (mm)	80 mm.
Depth (mm)	35 mm.
Height (mm)	80 mm.
Mounting dimensions	W-55mm D-20mm H-55mm
Processor	Microchip
Power supply	+ 5v dc
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Material	PC-ABS-FR (Flame Retardant)
Buzzer speaker	2400Hz 65 dB
Output connection	1-RJ45
Input connection	1-RJ45
Color	White
Communication	RS 485
Back Light	Yes

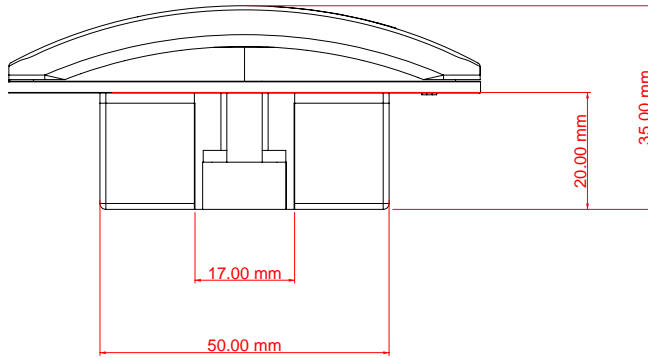
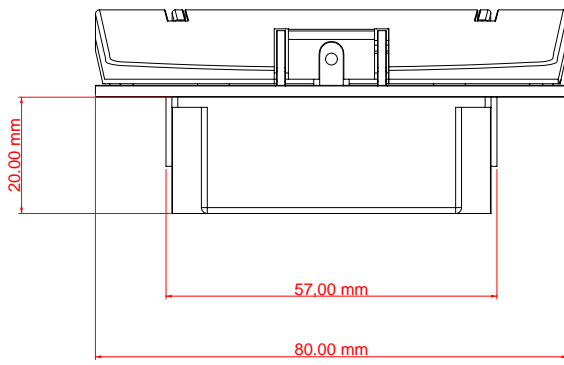
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WC Call Unit

WC Emergency Call Unit

Wc Call Unit is used in the bathrooms of patient rooms. In an emergency, patient pulls the rope making an emergency call. Appears as a WC Emergency call on nurse console.

System gives priority to WC Emergency calls and appears before other calls. There is a call reset button and emergency call rope on the unit. It's backlit and modern.



Technical specification

ZKRUNCIPWC10100

Weight (g)	56 gr.
Width (mm)	80 mm.
Depth (mm)	35 mm.
Height (mm)	80 mm.
Rope Durability	Max 30kg
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Material	PC-ABS-FR (Flame Retardant)
Buzzer speaker	2400Hz 65 dB
Color	White
Communication	RS 485
Input Connection	1 RJ 45

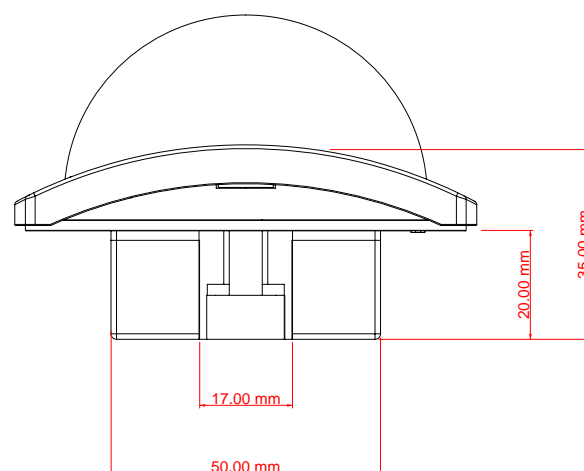
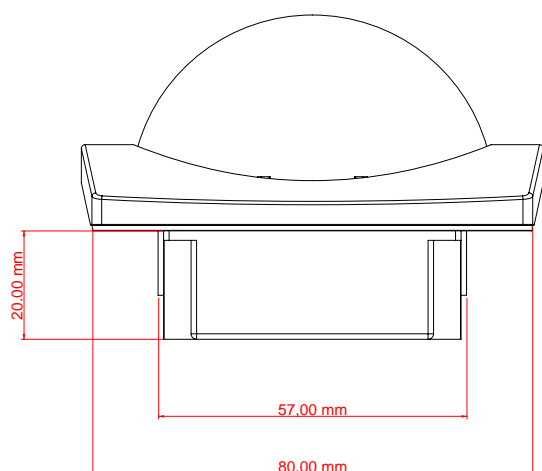
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Overdoor Corridor Lamp

Overdoor Corridor Lamp

Overdoor Corridor Lamp is located above room door in the corridor. Half-sphere shape makes it easy to notice. So if there is an emergency in the room it can be noticed easily. It warns with three different colors. Red, green and blue.

The color depends on the call. Flush mounted above doors. If unsuitable can be mounted with surface mounted box.



ZKR Versatile Overhead Door Warning Lamp

- Maintenance-technical support free plug and play architecture.
- High level performance with its built-in antenna.
- 3 different main colors (blue, green, red)
- Ability to achieve different warning colors by mixing primary colors,
- Very low energy consumption and environment friendly thanks to its LED design.
- High quality PC-ABS-FR (Flame Retardant) raw materials.

Technical specification

ZKRUNCORTKLMP10

Weight (g)	56 gr.
Width (mm)	80 mm.
Depth (mm)	35 mm.
Height (mm)	80 mm.
Lighting Type	Led
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Current W	0.8
Material	PC-ABS-FR (Flame Retardant)
Power Supply	+5V
LED Colors	Blue, Red, Yellow
Communication	RJ 45
Color	White

ZKR Versatile

Impact Resistant Bed Set Unit

Impact Resistant Bed Set Unit

The bed set unit is mounted in the patient bedset console. There are nurse call and call termination buttons on it. It has an illuminated, aesthetic and durable structure.

- The built-in buckle has an ergonomic structure for fitting.
- RJ45 socket allows easy installation.
- Stainless steel raw material is used.
- It has IK 10 Impact Resistance Certificate.
- Emergency call and reset buttons are illuminated by LEDs continuously for easy viewing.



Technical specification

ZKRUNCIPWL10200

Weight (g)	76 gr.
Width (mm)	165 mm.
Depth (mm)	3 mm.
Height (mm)	90 mm.
Processor	Microchip
Power	+ 5v dc
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Material	ABS/FR
Buzzer Speaker	2400Hz 65 dB
Output	1-RJ45
Input	1-RJ45
Color	Metalic Gray
Communication	RS 485
Backlit	Yes

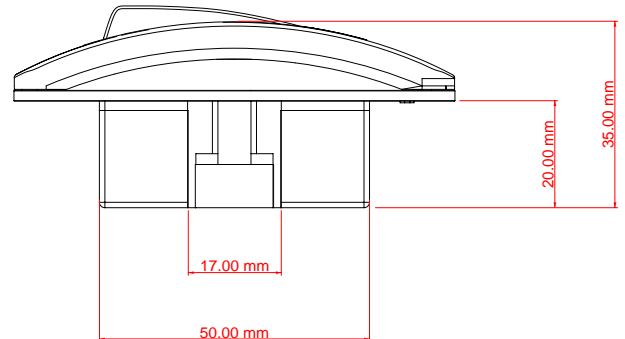
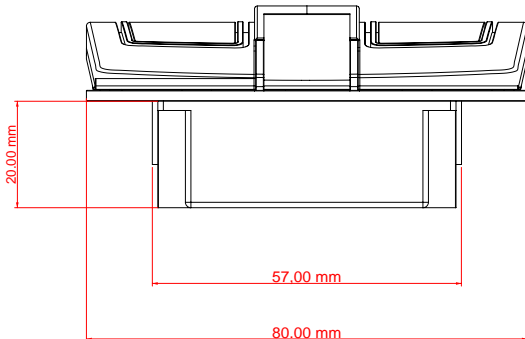
ZKR Versatile

Code Blue Unit

Code Blue Unit

Blue code start and end buttons are available. The blue code unit is connected to the RJ45 socket on the unit. It has an illuminated, aesthetic and durable structure.

- The built-in buckle has an ergonomic structure for fitting.
- RJ45 socket allows easy installation.
- ABS / FR raw material is used.
- Continuous LEDs for easy viewing of emergency call and reset buttons



Technical specification

ZKRUNCIPCDBL101

Weight (g)	56 gr.
Width (mm)	80 mm.
Depth (mm)	35 mm.
Height (mm)	80 mm.
Mounting Dimensions	W-55mm D-20mm H-55mm
Processor	Microchip
Power	5v dc
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Material	ABS/FR
Buzzer Speaker	2400Hz 65 dB
Output	1-RJ45
Input	1-RJ45
Color	Beyaz
Communication	RS 485
Backlit	Yes

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Nurse Control Panel

Nurse Control Panel

In the case of an emergency, signal on the monitor icon will appear on the location and type of call. The system builds a priority depending on the call type and displays them on the monitor. All calls, emergency calls, toilet-bathroom and visiting nurses, can be tracked on the panel and remote access.

IP - system is no limit on the number of beds connection. LAN based technology for the connection between units of the system. All kinds of transactions passing through the system are recorded. All records obtained can be reported in detail.



- Linux Based System - Stable and well secured.
- Showing 5 call at same time.
- Call queue system
- Priority system for emergency calls.
- Texting between panels.
- Call orientation - Away from service area
- Staff Card Authorization
- Custom interface language
- View local reports

Technical specification

ZKRUNCIPNP17100

Screen size (inches)	18.5 inch LED Display All in One PC
Display features	1600 x 900
Processor information	Intel Bay Trail J1750 2.41 Ghz Dual Core
Operating system	LINUX OS
Capacity:	500 GB 7200 RPM SATA 3.5" HDD
Memory	2 GB DDR3 1333 MHz
Weight (g)	3.2 kg.
Width (mm)	485 mm.
Depth (mm)	39 mm.
Height (mm)	336 mm.
Connectivity features	Ethernet
Language	English, Spanish, Russian, Turkish, Custom
Power supply	110-220 VAC 47-63 Hz
Operating temperature / Humidity	10°C +50°C / % 30 %80 RH
Storage temperature / Humidity	20°C +60°C / %20 %90 RH
Input connection	1x Power on/off , 2xUSB 3.0, 1x Volume Button, 1xMic in, 1xSpeaker Out, 1x3in1 Card Reader (SD-MMC-MS)
Color	Black, White
Communication	RJ 45 jack Cat 6-7
Network	10/100 Mbit Gigabit Lan / 802.11b / g / n Wireless Bluetooth 4.0

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Lamp Control Module

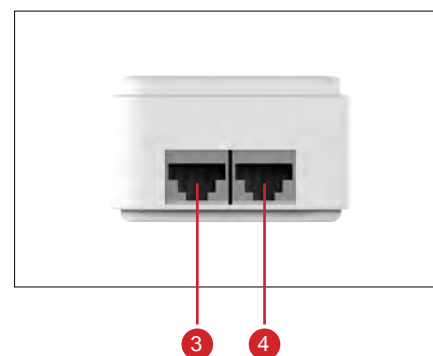
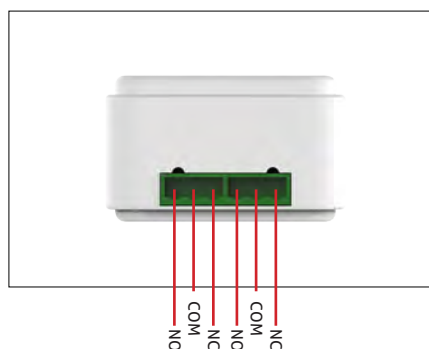
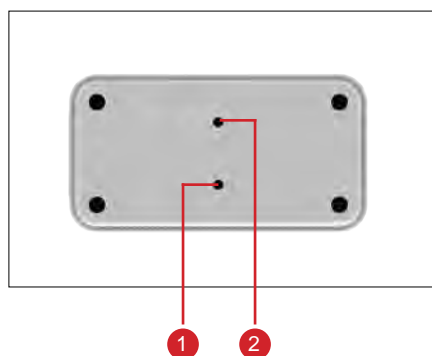
Lamp Control Module



This unit used for handset and room light system integration.

One unit must be used for each hand set.

1. Config Button
2. Status Led
3. Out
4. In



Technical specification

ZKRUNCANRMLK100

Weight (g)	75 gr.
Width (mm)	80 mm.
Depth (mm)	50 mm.
Height (mm)	40 mm.
Operating temperature / Humidity	-20°C +60°C / % 30 %80 RH
Connection Type	Vavien
Output	No-com-NC
Input	1-RJ45
Color	Gray
Communication	RS 485

ZKR Versatile

Application Server

Application Server

This system is integrated with hospital PBX, nurse call panels, room control units and pager alarm system. It allows controlled access to patients' information from nurse call room control by providing hospital management system or by integration with the used system and database.

All nurse call panel send the notifications to this system for storing all events and provide a customized report as needed. By integration with hospital PBX, this system receives code blue call from any phone in hospital and announces it to pager system and nurse call system.



ZKVOX convert phone calls between legacy circuit-switched technologies and modern packet-switched technologies (VoIP). You can use gateways to connect legacy phone lines with ZKVOX system, or to connect legacy phone systems with VoIP services and features. ZKVOX can make calls using whatever method makes the most sense for your business. VOIP, traditional analog lines, video calling, the IP phones of your choice it's all up to you.

- This system is Linux OS.
- Recording server for Voice order.
- WI-FI, DECT, IP phone integration.
- Connected with hospital PBX using analogue, IP, BRI or PRI.
- Warnings can be sent to DECT phones, pagers, mobile phones or phone lines.
- Emergency Code server (code blue, code pink, code white, service code) can be started or via room control units or from any place using the hospital's phones.
- All transactions are recorded and can be reported as needed.
- Connection types: SIP, H323, ISDN BRI, ISDN PRI and Analog.
- Protocol: TCP/IP and ZKRUS Protocol
- Paging protocol: POCSAG, Sipinfo and ESPA.

Examples for Situation Codes

- Code Blue
- Code Pink
- Code White
- Consultation
- Staff or Service Code (Can be edited)

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Application Server

Technical specification

SR1010

Form factor	1U rack server
Dimensions and weight	H: 42.8 mm (1.67 in), W: 434.0 mm (17.09 in), D: 495 mm (19.5 in) w/o ear, w/o bezel Max weight: 10.6 kg (20.96 lb)
Processor	1 processor from the following product families: <ul style="list-style-type: none">• Intel® Xeon® processor E3-1200 v6 product family• Intel Pentium®• Intel Core™ i3• Intel Celeron®
Chipset	Intel C236
Operating system	Microsoft® Windows Server® 2016, Microsoft® Windows Server® 2012 Microsoft Windows Server 2012 R2, x64 Red Hat® Enterprise Linux® VMware® Vsphere® ESXi® SUSE® Linux Enterprise Server®
Memory	Architecture: Up to 2400MT/s DDR4 DIMMs Memory type: UDIMMs Memory module sockets: 4 Maximum RAM: Up to 64GB
Storage	<ul style="list-style-type: none">• 2.5" SATA 7.2k• 2.5" nearline SAS 7.2k• 2.5" 10k SAS HDDs• 2.5" 15K SAS HDDs• 2.5" SATA SSDs• 3.5" Enterprise SATA 7.2k HDDs• 3.5" nearline SAS 7.2k HDDs• 3.5" 7.2k SATA entry drives
Hypervisor support	Microsoft Windows Server with Hyper-V® VMware® vSphere® ESXi®
Drive bays	2 x 3.5" cabled HDD 4 x 3.5" cabled HDD 4 x 3.5" hot-swap or 2.5" hot-swap in hybrid drive carrier
Slots	2 x PCIe 3.0 slots: x16 slot, full-height (1x8 3.0)+ x8 slot, low-profile (1x4 3.0).
RAID controllers	PERC S130, PERC H330, PERC H730, PERC H830
Network controller	Broadcom® 5720
Communications	2 x 1GbE LOM Click here for R230 supported network interface cards (NICs) and host bus adapters (HBAs) and scroll to "Additional Network Cards" section.
Power	250W cabled PSU
Management	<ul style="list-style-type: none">• IPMI 2.0 compliant• Dell OpenManage Essentials• Dell OpenManage Mobile• Dell OpenManage Power Center• Plug-in for Oracle® Enterprise Manager• Dell OpenManage Integration Suite for Microsoft System Center, Dell OpenManage Integration for VMware vCenter®• HP Operations Manager• Dell OpenManage Integration Suite for Microsoft System Center, Dell OpenManage Integration for VMware vCenter®
Input connection	1 x USB 3.0 1x Headphone Out 1 x PS/2 Keyboard 1 x PS/2 Mouse 1 x RJ-45 Ethernet 1 x VGA (Display Out) 1 x Serial Port (RS232) 1 x Mic In 4 x USB 2.0
Device access	5 total USB: Rear: 2 x USB 3.0 ports Front: 2 x USB 2.0 ports Internal: 1 x USB 3.0 port
Rack support	ReadyRails™ static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded and 2-post racks.

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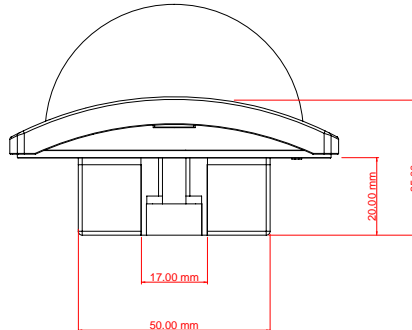
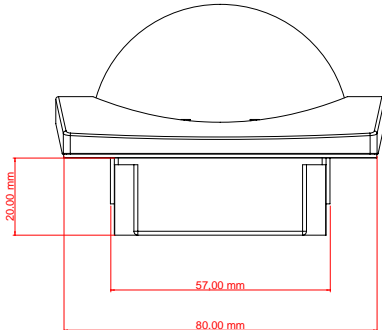
Overdoor I/O Corridor Lamp

Overdoor I/O Corridor Lamp

Overdoor Corridor Lamp is located above room door in the corridor. It is designed for the use of independent lamps for each bed in multi-bed areas connected to a single room control. Half-sphere shape makes it easy to notice. So if there is an emergency in the room it can be noticed easily. It warns with three different colors. Red, green and blue. The color depends on the call. Flush mounted above doors. If unsuitable can be mounted with surface mounted box.

ZKR Versatile Overhead Door Warning Lamp

- Maintenance-technical support free plug and play architecture.
- High level performance with its built-in antenna.
- 3 different main colors (blue, green, red)
- Ability to achieve different warning colors by mixing primary colors,
- Very low energy consumption and environment friendly thanks to its LED design.
- High quality PC ABS FR (Flame Retardant) raw materials.



Technical specification

ZKRUNCORTKLMP10

Weight (g)	56 gr.
Width (mm)	80 mm.
Depth (mm)	33 mm.
Height (mm)	80 mm.
Lighting Type	Led
Operating temperature / Humidity	-10°C +60°C / % 30 %80 RH
Current W	0.8
Material	PC-ABS-FR (Flame Retardant)
Power Supply	+5V
LED Colors	Blue, Red, Yellow
Communication	RJ 45
Color	White