

Healthcare Communications



Nurse Call Systems

Air Plus System Technical Data

ZKR Air Plus

Room Control Unit



Easy to Install

Designed with "Plug and Play" architecture, ZKR Air introduce you with practical installation by leaving traditional installation methods aside.

Mobil Integration

Alarms received from the system can be forwarded in the form of written messages to pagers, DECT telephones, Wi-Fi mobile telephones or GSM phones.

Management Panel

With ZKR Air, while making communication between your patients and your personnel easier and faster, you will be able retrieve required reporting from the system and conduct performance analyses.

Access from Anywhere

ZKR Air can be integrated into your current switchboard, therefore, you can start emergency code alarm by using internal phones from any points in the institution.

Technical specification

ZKRUNCWRAIRRMCo1

Width (mm)	125.0 mm
Depth (mm)	57.0 mm
Height (mm)	200.0 mm
Screen	2,3 inc LCD
Card Reader	Mifare Classic
Back Light	Yes
Visual Alert	Reflected ambient light on the wall according to the type of call
Power Supply	100 V – 220 V
Buzzer Speaker	2400 Hz 65 Db
Functional Keys	6 Programmable Keys
Material	PC-ABS-FR (Flame Retardant)
Color	White
Wireless Frequency	433 Mhz, 868 Mhz, 2,4 Ghz
Wireless Network	Two way communications for wireless mesh network
Wireless Range Bed Set	100 m
Wireless Range Door Lamp	100 m
Wireless Range Nurse Panel	250 m

ZKR Air Plus

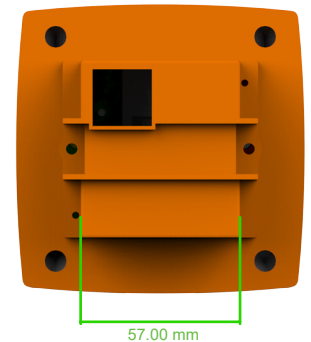
Bed Set Unit

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.

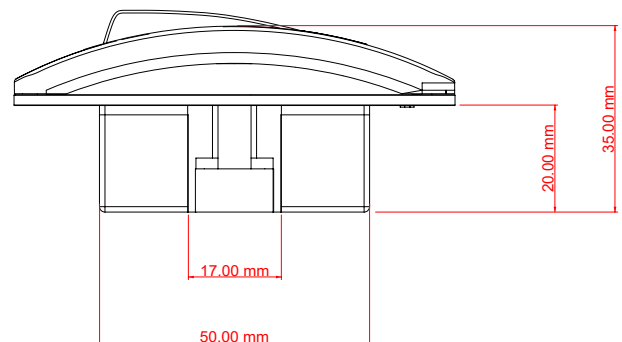
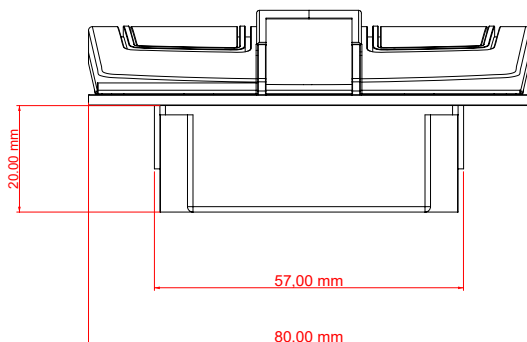
There are call and cancel buttons on the unit which are backlit and modern. Console is mounted on the patient headboard. Bed Set unit is connected to the headboard unit via RJ45 socket.

- 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 ABS raw materials.
- Call and Reset buttons are lighted with leds so they are easy to notice.



Front View

Side View



Technical specification

ZKRUNCWRAIRWL001

Weight (g)	60 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	12V Battery
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
Battery Life	1 Year
Low Battery Alert	Yes
Color	White
Wireless Range	100 m
Back Light	Yes
Wireless Frequency	433 Mhz, 868 Mhz, 2,4 Ghz

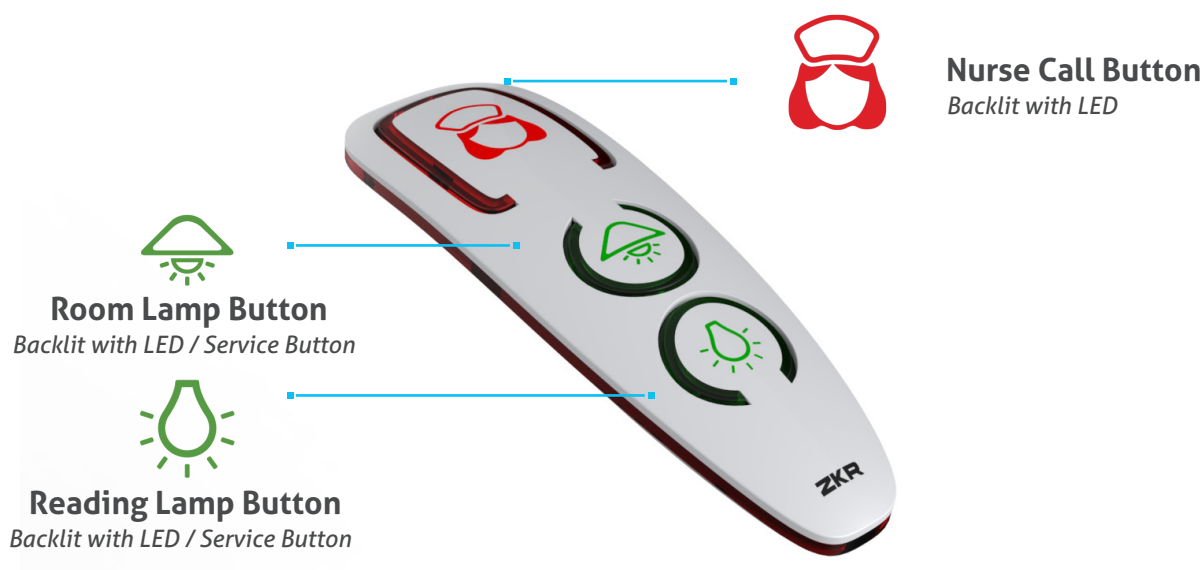
ZKR Air Plus

Patient Handset

Patient Handset

Patient hand unit allows the patient inform the staff immediately.

- Easy to use.
- Unit works through 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

ZKRUNCWRAIRHS001

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

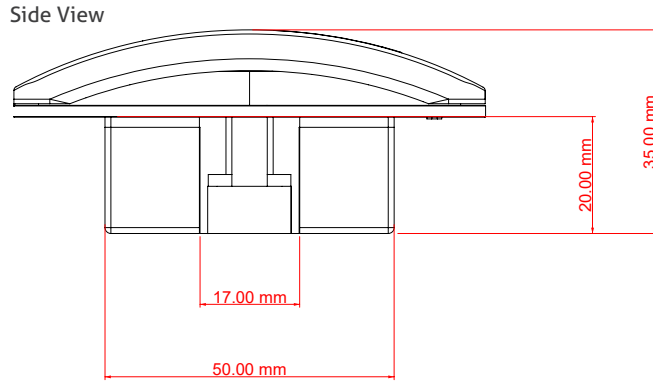
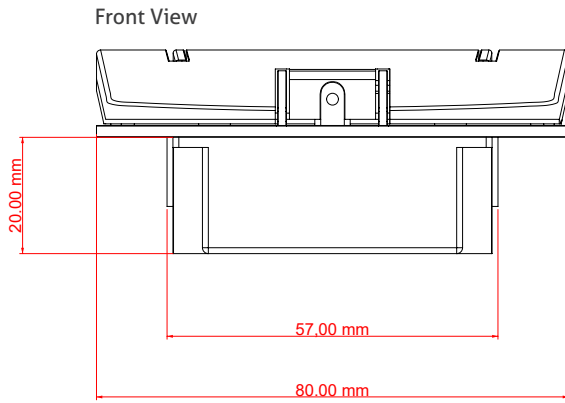
ZKR Air Plus

Patient Handset

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

ZKRUNCWRAIRHS001

Weight (g)	60 gr.
Width (mm)	80 mm.
Depth (mm)	33 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
Power Supply	12V Battery
Battery Life	1 Year
Low Battery Alert	Yes
Wireless Range	100 m
Wireless Frequency	433 Mhz, 868 Mhz, 2,4 Ghz

ZKR Air Plus

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.

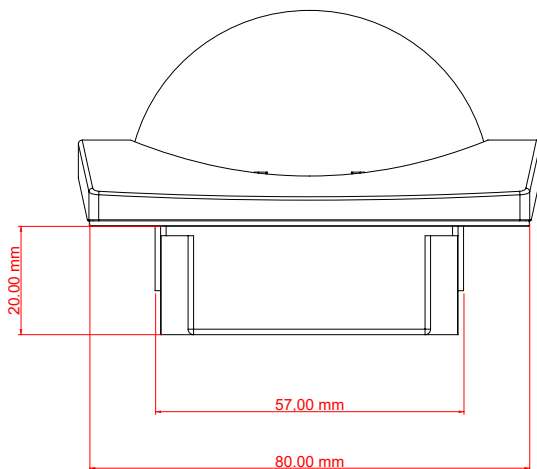
The color depends on the call. Flush mounted above doors. If unsuitable can be mounted with surface mounted box.

ZKR Air Overhead Door Warning Lamp

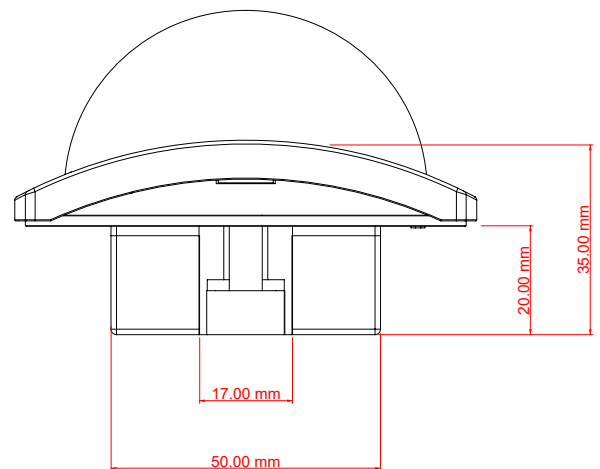
- Maintenance-technical support free plug and play architecture.
 - High level performance with its built-in antenna.
 - 3 different main colors (blue, green, red)
- Ability to achieve different warning colors by mixing primary colors,
 - Very low energy consumption and environment friendly thanks to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



Front View



Side View



Technical specification

ZKRUNCWRAIRLMP01

Weight (g)	59 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	100 V - 200V
Colors	Blue, Red, Yellow
Wireless Range	100 m
Current W	12
Wireless Frequency	433 Mhz, 868 Mhz, 2,4 Ghz

ZKR Air Plus

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	1024x768
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

ZKR Air Plus

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)

ZKR Air Plus

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.