



**Intelligent Healthcare**  
Communication Solutions

# TAKE PATIENT EXPERIENCE TO NEXT LEVEL

ZKR Multimedia Entertainment System is especially designed for the hospitals and clinical environments. It has, 21.5" IPS LCD screen with 10-point touchscreen, camera, internet and Bluetooth. Easy-clean design antibacterial material casing and a front screen is IP65 rated.

Fully integrated with ZKR Nurse Call Systems. Start Nurse Call form included Pillow Speaker or from touch screen, control room lighting. Internal and external voice communications is supported with Full HD VoIP.



## IPTV

By Connecting to Institutions IPTV feed and radio, no longer need a TV unit in the Patient's room.

## Media Database

Use video and audio database to provide entertaining and therapeutic programs for the patients.

## Games and Multimedia

Supports countless Android video games and streaming services such as YouTube®, Prime® Video and others.

**and more...**

# Features

## IP-TV

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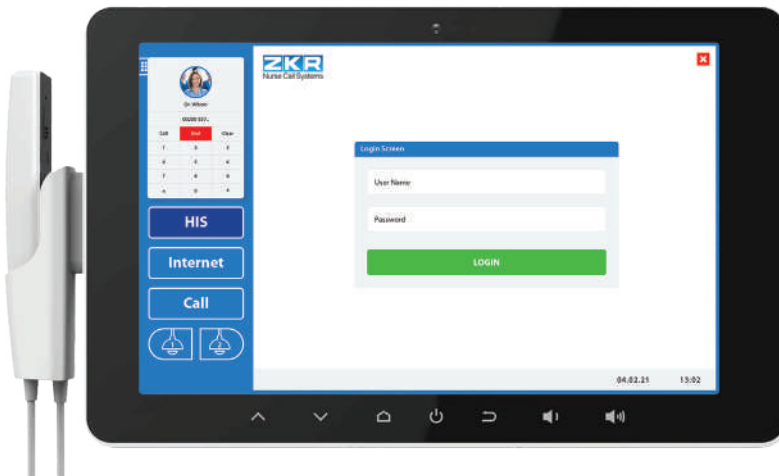
## Order Service

Integrated catering for ordering food and beverages. Built-in order tracking for easy accounting. Service content and menu can be edited according to your needs.



## Hospital Information System Integration

Integrate with Hospital Information System to allow visiting staff to use the device as a terminal. Fully integrated with ZKR Nurse Call Systems. Start Nurse Call form included Pillow Speaker or from touch screen, control room lighting. Internal and external voice communications is supported with Full HD VoIP.



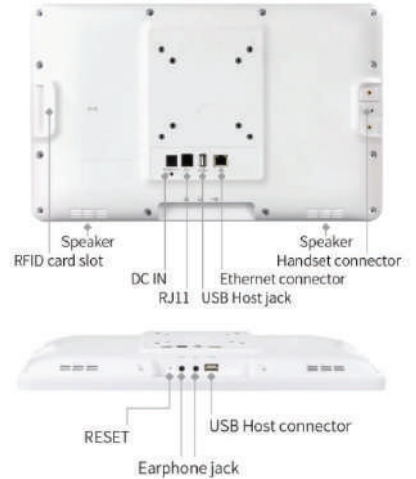
# Technical Specification

## Smart Multimedia Device

- IP-TV
- Radio
- Games
- Streaming (Youtube, Netflix, etc)
- Movies (Local)
- Music (Local)
- Books (Local)
- Meal Menus (Local)
- Order Food (Cafeteria or Outside)

### With built-in handset:

- Nurse call Integration
- VoIP Integration



## Technical Specification

Core	Processor	Dual-core Cortex A72, Cortex-A53
	Graphic	Integrated 2D/3D Mali-T764 GPU, up to 600MHz. Support OpenGL ES1.1/2.0/3.0, OpenVG1.1, OpenCL, DirectX11
	RAM	4GB DDR3
	ROM	8GB NAND Flash (32G optional)
	OS	Android 11 / Ubuntu 18.04
Display	LCD panel	21,5 inch, LED backlight
	Resolutions	1920 x 1080
	Brightness	300cd/m2
	Contrast Ratio	1000:1
	View Angle (°)	85/85(L/R), 85/85(U/D)
Wireless	Touch panel	Sensitive capacitive touch screen, 10-point touch panel
	WiFi	Support 802.11 a/b/g/n, Dual-band 2.4GHz & 5GHz
	Bluetooth	Support Bluetooth 4.0 BLE, Class 1
User Interface	RFID	Combo Smart Card Reader & Mifare RFID (Optional)
	Video	AVI, MKV(XVID/PX/H.264), MOV, TS, ML2TS, FLV, 3GP, MPEG OAT, MP4(support to 1080P(1920x1080))
User Interface	Audio	Dolby® Digital™, Dolby® Digital Plus™, MP2, MP3

User Interface	Audio	Output: speaker 8Ω/3W (3w x 2) Internal microphone
	Camera	2.0M CMOS Camera
	Onboard I/O ports	USB OTG x 1
		USB HOST x 1
		RJ45*1 (10/100/1000Mbps); Support POE+ RJ11*1 6P6C Handset x 1 (Optional)
Function Key	Power on/off, Vol+, Vol-, Channel +, Channel -, Home, Back, Reset	
Handset	Full function handset with phone, hook switch and key membrane and optional remote (Optional)	
Power Supply	DC In	12V DC (9 ~ 36V)
Environment	Operating Temp.	-10°C to 70 °C
	Storage Temp.	-20°C to 80 °C
	Humidity	20%-80% (Non-Condensing)
	IP Rating	front panel IP65
Mechanical	Dimensions	405(L) x 254(W) x 41(H) mm
	Weight	1977g (Excluding Handset)
	Mounting	VESA 75mmx75mm and 100 x 100 compatible
Accessories	Certification	CE / FCC
	Standard	DC adaptor
	optional	Handset

# Technical Specification



## Bedside Medical Terminal

- Loudspeaker for hands-free conversation
- Support Android Operating System
- Support + VOIP call dialing functions
- Peripheral USB 2.0 Interface
- Status Red, Green light
- Voice Switching between host and telephone

## Technical Specification

Project function	Specification description	MCU developer reference
<b>Product size</b>	202mm (length) X50.4mm (width) X22.5mm (thickness)	
<b>master control</b>	Microcontroller SOP Package flash Version	MCU of Flash version
<b>Operating system</b>	Android /Windows/linux	3S1630A1-U6D support
<b>Telephone function</b>	Dialing +VOIP calling function	
<b>Buzzer</b>	Call reminder	Passive (BB sound, software control) 1 IO port; MCU reserves this function to detect IO H/L of 3S1630. IO of 3S1630 is controlled by client system HID
<b>Sound switching</b>	Voice switching between host and telephone	Scheme 1): after the IO of MCU detects the on-hook IO action (induced by hall switch), IIC sends a key value to HOST, tentatively: KEY_LEFTCTRL+KET_7, and switches the sound card through this key value; Scheme 2): the base is reserved with GPIO port. after the IO of MCU detects the on-off and on-hook IO action (induced by hall switch), it notifies the host to switch the sound card through GPIO port. the above two schemes are retained together; thus, GPIO or key value can be selected for processing, so as to prevent conflicts caused by subsequent increase of key value by customers.
<b>Status light</b>	Red, green	The red light of the incoming call flashes, and two IO ports whose green light is always on (software control) are connected; IO H/L of 3S1630 is controlled by the customer's upper computer system, which has nothing to do with MCU
<b>Microphone</b>	Have	
<b>horn</b>	8 Euro 1W	Use the 2016 speaker as the receiver
<b>Peripheral interface</b>	USB 2.0	
<b>Input voltage</b>	USB 5V	
<b>Product size</b>	202*50*24mm	
<b>Operating temperature range</b>	-10°C to +50°C	
<b>Storage temperature range</b>	-20°C to +60°C	