ZKR

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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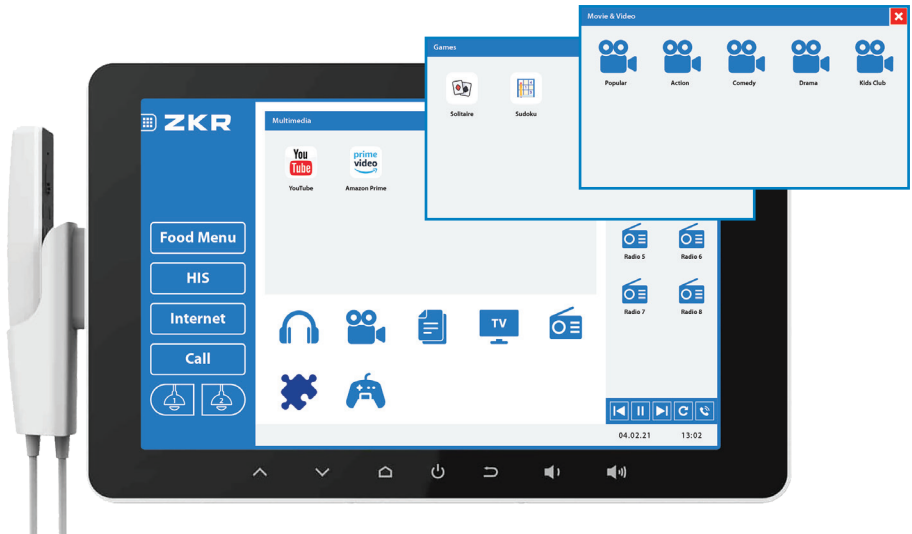
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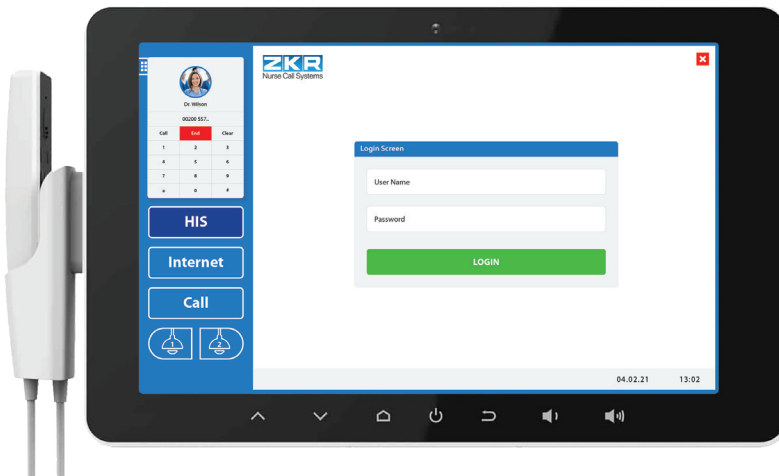
Features

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.
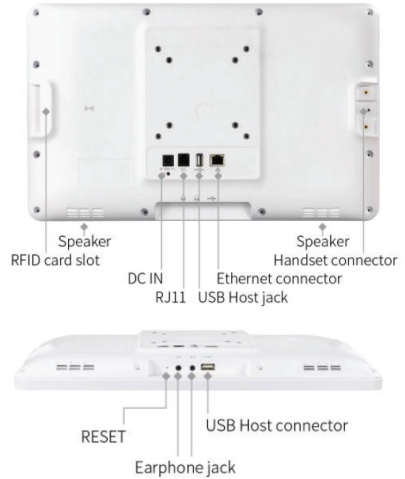
Technical Specification

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	**User Interface**	Audio	Output: speaker 8Ω/3W (3w x 2)
					Internal microphone
	Graphic	Integrated 2D/3D Mali-T764 GPU, up to 600MHz. Support OpenGL ES1.1/2.0/3.0, OpenVG1.1, OpenCL, DirectX11		Camera	2.0M CMOS Camera
	RAM	4GB DDR3		Onboard I/O ports	USB OTG x 1
	ROM	8GB NAND Flash (32G optional)			USB HOST x 1
	OS	Android11 / Ubuntu18.04			RJ45*1 (10/100/1000Mbps); Support POE+
Display	LCD panel	21,5 inch, LED backlight			RJ11*1 6P6C
	Resolutions	1920 x I080			Handset x 1 (Optional)
	Brightness	300cd/m2		Function Key	Power on/off, Vol+, Vol-, Channel +, Channel -, Home, Back, Reset
	Contrast Ratio	1000:1		Handset	Full function handset with phone, hook switch and key membrane and optional remote (Optional)
	View Angle (º)	85/85(L/R), 85/85(U/D)	**Power Supply**	DC In	12V DC (9 ～ 36V)
	Touch panel	Sensitive capacitive touch screen, 10-point touch panel	**Environment**	Operating Temp.	-10°C to 70 °C
Wireless	WiFi	Support 802.11 a/b/g/n, Dual-band 2.4GHz & 5GHz		Storage Temp.	-20°C to 80 °C
	Bluetooth	Support Bluetooth 4.0 BLE, Class 1		Humidity	20%-80% (Non-Condensing)
	RFID	Combo Smart Card Reader & Mifare RFID (Optional)		IP Rating	front panel IP65
User Interface	Video	AVI, MKV(XVID/PX/H.264), MOV, TS, ML2TS, FLV, 3GP, MPEG OAT, MP4(support to 1080P(1920x1080)	**Mechanical**	Dimensions	405(L) x 254(W) x 41(H) mm
				Weight	1977g (Excluding Handset)
	Audio	Dolby® Digital™, Dolby® Digital Plus™, MP2, MP3		Mounting	VESA 75mmx75mm and 100 x 100 compatible
				Certification	CE / FCC
			Accessories	Standard	DC adaptor
				optional	Handset

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Bedside Medical Terminal

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

Technical Specification

Project function	Specification description	MCU developer reference
Product size	202mm (length) X50.4mm (width) X22.5mm (thickness)	
master control	Microcontroller SOP Package falsh Version	MCU of Flash version
Operating system	Android /Windows/linux	3S1630A1-U6D support
Telephone function	Dialing +VOIP calling function	
Buzzer	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
Sound switching	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.
Status light	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
Microphone	Have	
horn	8 Euro 1W	Use the 2016 speaker as the receiver
Peripheral interface	USB 2.0	
Input voltage	USB 5V	
Product size	202*50*24mm	
Operating temperature range	-10°C to +50°C	
Storage temperature range	-20°C to +60°C	