

Data Acquisition Terminal

IASO-W10B-IMX8M-R10

 10.1" panel PC with NXP
i.MX 8M Mini Processor

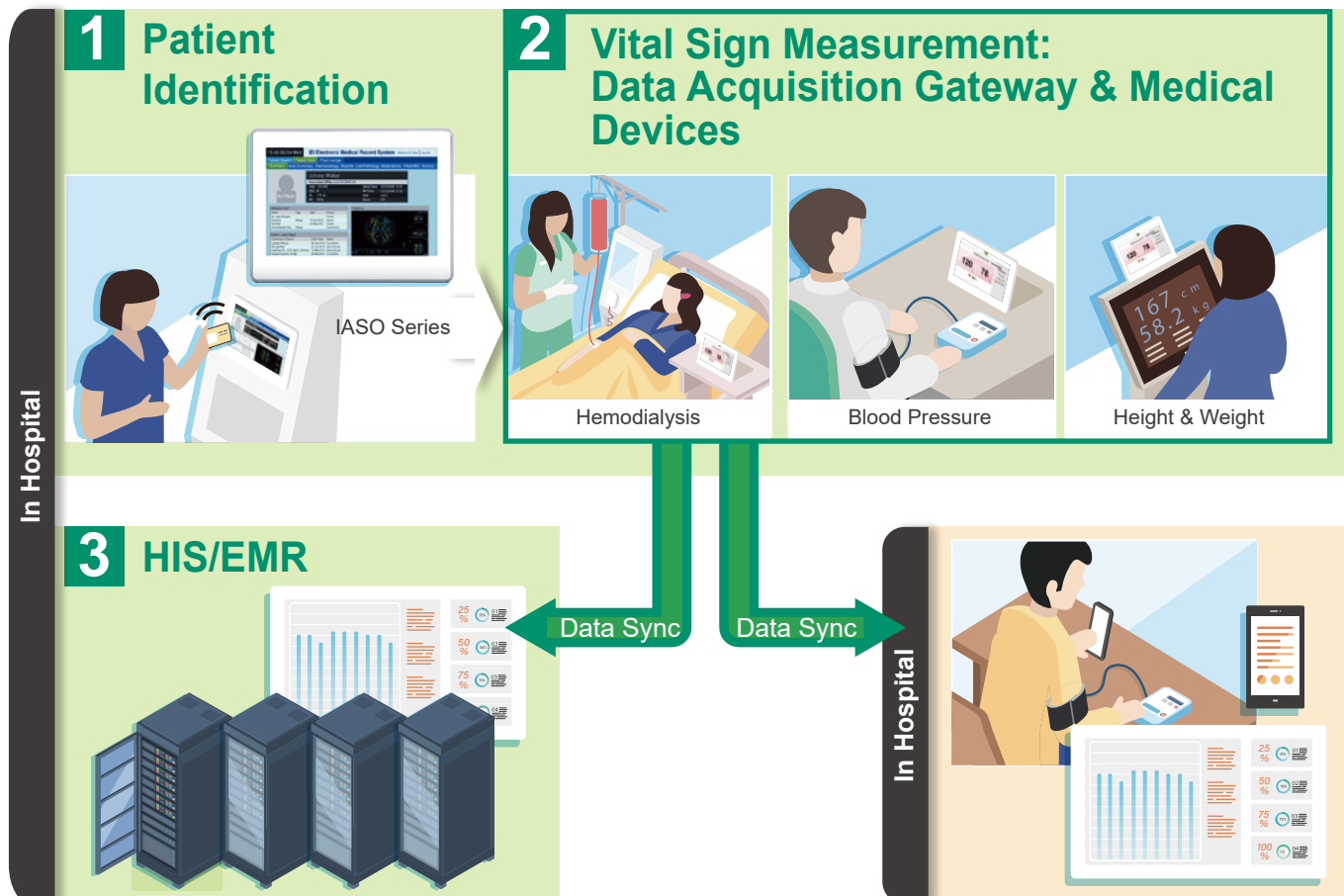
Features

- NXP i.MX 8M Mini Quad-core Cortex-A53 1.8 GHz
- Programmable LED light bar on both side
- 10-point PCAP touch with optical bonding
- IEEE 802.3 PoE (optional)
- RFID (NFC) reader (optional)



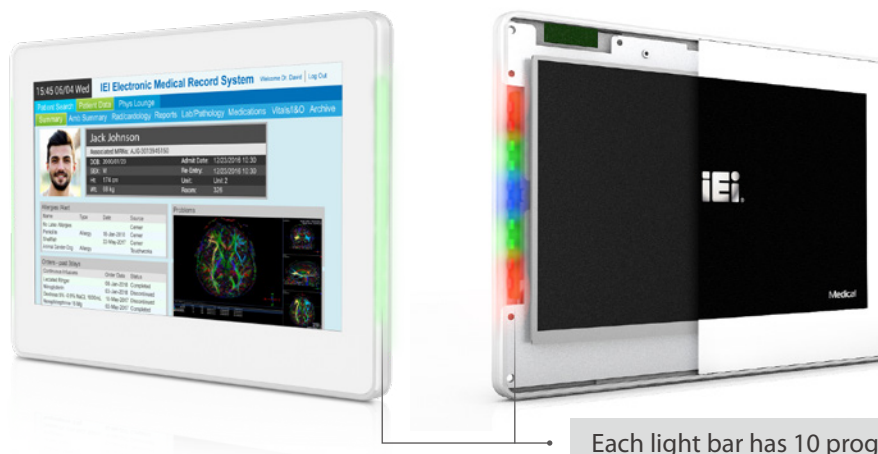
» Medical Data Acquisition

IEI helps to combine the data obtained at home with the medical records at the hospital so that medical personnels can observe the patient's measurement information thoroughly. The data can also be digitalized to effectively help data integration and tracking. In addition to synchronizing with the data in the hospital, if the patient is hospitalized, the data can also be saved in the system. These data can be kept intact and effectively used as an evaluation basis for diagnosis and treatment.



» LED Light Bars on Both Sides

Bright and simple outlook with programmable LED lights on both sides. Each light bar has 10 programmable RGB LEDs with IEC62471 certification. The colorful light and display can be adjusted according to use conditions. It can be used to detect the status light signal, or to warn the ward aisle. The front frame is made of translucent material to make the frame light and thin.



Each light bar has 10 programmable RGB LEDs

» Color Codes for Safety Signs

- IEC60601-1-8: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems.
- ANSI Z535.1-2017: A standard that describes the color codes that can be used on accident prevention signs, labels, and tags. This also includes the marking and location of first aid equipment, fire extinguishers, trip/slip hazards, and other potential hazards or safety equipment.

	IEC60601-1-8		ANSI Z535.1-2017
■ Red	Flashing	High priority alarm condition: Immediate action to prevent injury.	Fire protection equipment and apparatus, danger signs, containers of flammable liquids, lights at barricades, stop button/switches. (PMS 186)
	Not flashing	Warning: Avoidance of a HAZARDOUS SITUATION which could cause death or serious injury.	
■ Yellow	Flashing	Medium priority alarm condition: Prompt action to prevent injury.	Specific physical hazards (including falling, tripping and striking) and designating caution (including cabinets, cans and containers for explosives, corrosives or unstable materials). (PMS 109)
	Not flashing	Caution: Avoidance of a HAZARDOUS SITUATION which could cause minor or moderate injury or equipment damage.	
■ Green	Ready for use		Safety information and first aid or safety equipment. (PMS 335)
■ Orange	The significance of these colors may be defined by the end-user.		Signs and equipment designating dangerous or energized machines/equipment. (PMS 151)
■ Blue	The significance of these colors may be defined by the end-user.		Information not immediately safety-related (i.e. property policies including safety gear requirements). (PMS 285)
■ Purple	The significance of these colors may be defined by the end-user.		The significance of purple may be defined by the end-user, but purple (or the combination of purple and yellow) has become the de facto standard for radiation hazards. (PMS 259)
■ Gray Black, white or any combo of these and/ or Yellow	The significance of these colors may be defined by the end-user.		The significance of these colors may be defined by the end-user.

» Usage Scenarios



Patient Card



Patient Card



Medical Data Acquisition

Specifications

Model		IASO-W10B-IMX8M-R10	
Display	Display Size	10.1"	
	Resolution	1280 x 800	
	Brightness (cd/m²)	400	
	Contrast Ratio	800:1	
	LCD Color	16.7M (RGB 6-bit + Hi-FRC)	
	Pixel Pitch	0.1695 x 0.1695 mm	
	Viewing Angle (H/V)	178°/178°	
	Backlight MTBF (hrs)	30,000 (LED backlight)	
Touch	Touchscreen	Projected capacitive type with 10-point multi-touch with optical bonding	
	Touch Controller	EETI	
	Surface Hardness	6H	
Processor	Processor	NXP i.MX 8M Mini (Quad-core Cortex-A53 up to 1.8 GHz)	
LAN	LAN Controller	Motorcomm YT8521	
Storage	Storage	on board 32GB eMMC NAND FLASH, up to 128GB 1 x microSD slot	
	RAM	on board 4GB LPDDR4X, up to 8GB	
Audio	Audio	AMP 0.5W	
Speaker	Speaker	2 x 0.5W (internal speaker)	
Microphone	Microphone	1 x Digital microphone	
Wireless	Wi-Fi	WiFi 802.11 a/b/g/n/ac/ax	
	Bluetooth	Bluetooth V5.3	
I/O	Rear I/O	1 x Reset button 1 x Power button 1 x 12V DC jack 1 x RS-232	1 x Audio jack (TRRS) 1 x GbE LAN optional supporting PoE 2 x USB 2.0 Type A
LED Indicator	LED Indicator	2 x LED light bar	
Physical	Color	White	
	Thermal	Fanless	
	Construction Material	Front: PC; Rear cover: PC/ABS plastic	
	Mounting	Wall, Stand and Arm; VESA 75 x 75 mm	
	Weight (Net / Gross)	1.49 kg / 2.86 kg	
	Dimensions (LxWxH)	261 x 196.4 x 40 mm	
Power	Input	12V DC input	
	PoE	Class 4 (IEEE802.3 at) PD device w/o loading taken on I/O Class 5 (IEEE802.3 bt) PD device w/ full loading taken on I/O	
	Power Adapter	65W medical grade power adapter	
Environment	Operating Temperature	0°C – 40°C	
	Storage Temperature	-20°C – 60°C	
	Humidity	10% – 95% (non-condensing)	
	Vibration	1G	
	Operating shock	5G peak acceleration (11ms duration)	
	Non-operating shock	15G peak acceleration (11ms duration)	
	IP Level	Front: IP65	
Operating System	Supported OS	Android 12	
Certification	EMC & Safety	CE,FCC Class B Part 15B EN 55032 2015+A11:2020 EN 55035 2017+A11:2020 EN / IEC 62368-1	

Ordering Information

Part No.	Description
IASO-W10B-IMX8M-R10	10.1" 400cd/m ² medical panel PC with NXP i.MX 8M Mini Cortex-A53 1.8 GHz, on board 4GB LPDDR4X,Wi-Fi 6 module, PCAP touchscreen,R10
IASO-W10B-IMX8M/PoE-R10 *	10.1" 400cd/m ² medical panel PC with NXP i.MX 8M Mini Cortex-A53 1.8 GHz, on board 4GB LPDDR4X,Wi-Fi 6 module, PCAP touchscreen, IEEE802.3 PoE, R10

* By order production

IQ Mounting Options

Item	Part No.	Description
In-wall Mounting Kit	IASOWK-10B	In-wall mounting kit with lock for IASO-W10B-N6210, RoHS *In-wall mounting kit is not recommended for use in a fully sealed space.

Packing List

Item	Q'ty	Remark
Power Adapter	1	65W medical power adapter
Power Cord	1	European power cord, 183 cm, C13

I/O Interface

