



# Smart Healthcare Solution



Integrating Smarter Solutions to  
Provide Better Healthcare Experiences



[www.ieiworld.com](http://www.ieiworld.com)





# IEI Smart Healthcare Solution

Population aging is becoming a worldwide phenomenon and the requirements of health-caring are increasing. The World Health Organization (WHO) reports that 90% of seniors (US population) have at least one chronic disease, and 77% have two or more chronic conditions. That means the medical resources for the aging people could be predictably rising. Moreover, for providing better caring quality and managing all the clinical information electronically, the stable and ruggedized industrial panel PC is widely used in the clinic environment these years. The booming IoT industry also makes the medical applications smarter.

To provide the highest quality and highly modular design, IEI has been devoting every effort to developing several product lines for flexible applications in various situations. We not only deliver the products that meet users' needs and ergonomics criteria, but also produce products featuring IoT function. With the iRIS (IEI Remote Intelligent System) module, IT personnel can greatly enhance management, monitoring and maintenance efficiency in hospitals.



## Know-How for Healthcare Solution



**TAIWAN EXCELLENCE 2016** **DESIGN AWARD** **reddot design award winner 2015**

### Handheld PDA

Highly integrated PDA with ruggedized IP 67 grade answers all data capturing needs on the field and promises to enhance productivity.



### Medical Tablet PC

Lightweight and compact mobile touch medical tablet PC facilitates working procedures so that doctors can directly get patient information and record patients' condition at any time.

# Help the Healthcare Industry to Improve the Service Quality to Patients with Innovations in Technology



## Bedside Terminal *Preliminary*

The all-in-one design which integrates smart card reader, RFID and high-brightness LED reading light facilitates nurses to streamline the working procedure.



## Medical Cart Computer

High-performance and high-quality all-in-one medical computers provide maximum efficiency for the medical environment, and are designed to be maintained with ease.

## 2D Barcode Reader

For fulfilling the demands of remote monitoring on healthcare, IEI provides a hand-held 2D barcode reader to expand and enhance function of medical cart computer for monitoring patient status.



## Medical Cart *Powered by BriteMED™*

The E-Nursing Cart helps nurses perform their nursing processes efficiently, reduce transcription errors and even facilitate the speed of daily nursing workflow to further improve the service quality in hospitals.



## Power Station

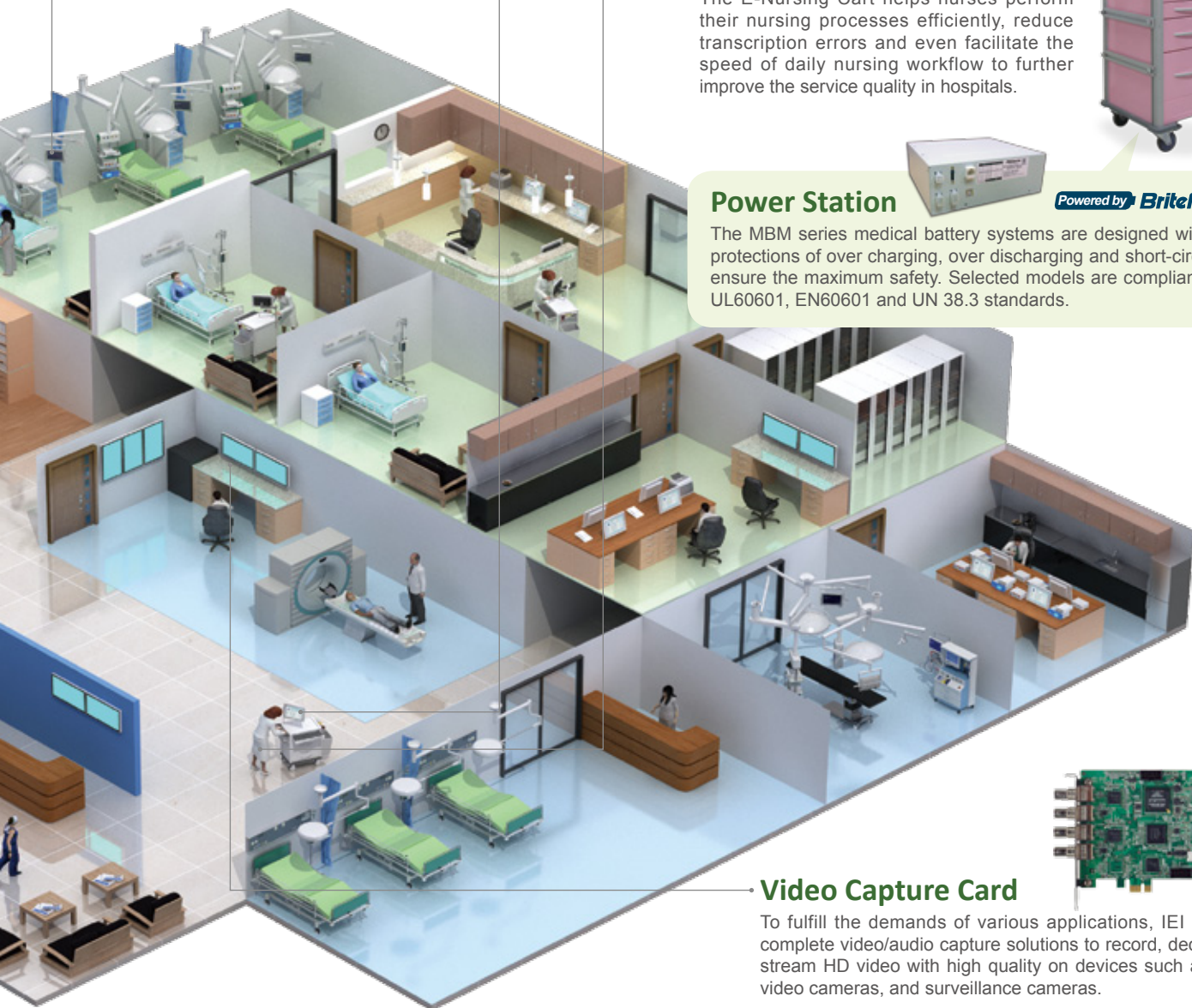
The MBM series medical battery systems are designed with the protections of over charging, over discharging and short-circuit to ensure the maximum safety. Selected models are compliant with UL60601, EN60601 and UN 38.3 standards.



*Powered by BriteMED™*

## Video Capture Card

To fulfill the demands of various applications, IEI provides complete video/audio capture solutions to record, decode and stream HD video with high quality on devices such as digital video cameras, and surveillance cameras.







## The Reasons for Choosing IEI Healthcare Solution

### Conform to Medical Certificates

With many experiences in designing and developing medical products, IEI not only provides high quality products to our customers but also provides products compliant with ISO 13485, ISO 14971 and EN/UL 60601-1. The medical certifications ensure that the quality of the production process and the medical products meet medical device standards and medical electrical safety standards.

### Support Flexible Cooperation Pattern

IEI has been developing and manufacturing industrial computers for almost two decades and medical devices for more than 10 years. The services we provide to our customers are with high quality and long-term support. Furthermore, the flexible OEM/ODM cooperation pattern is also the option for customers to choose products that are best fit to their requirements.

### Provide Professional and Complete Solutions

Healthcare that was once given in hospitals is now provided in hospitals, homes or communities, and the healthcare providers could be doctors, nurses, care-givers or patients themselves. With extensive experiences in researching and developing medical devices, IEI can provide high quality services and professional suggestions to our customers for improving healthcare environment.

# Solutions

## All-in-one Medical Grade Panel PC

User-friendly-oriented design is always the core value of us. IEI all-in-one medical grade panel PC series offers three product lines to accommodate all healthcare needs. In addition, the products we designed support various communication functions, such as Bluetooth, 1D/2D barcode scanner, RFID, SCR and MSR. These units can provide clinician personnel conveniences and increase the working efficiency. The product lines we have as below:

- POC Series for point-of-care terminal
- BIS Series for bedside system



Medical Cart Computer  
POC-W22A



## Industrial Mobile Devices

IEI mobile series products help daily healthcare jobs become more flexible and convenient. The highly integrated mobile devices can be used in ward round, specimen tracking, medicine tracking, patient identification or ambulance application, etc. Both Windows and Android OS are supported in addition to Linux OS provided by our professional software team. The product lines we have are as below:



PDA  
MODAT



Tablet  
ICECARE



Tablet  
ICEFIRE 2

## Medical Grade Box PC

As the leading embedded SBC provider, IEI continues to extend the product footprint from general purpose to vertical market. Our strong knowledge of market and technology innovation offers long-term support, high quality, reliable and flexibility for all of our products with choices of size, performance and feature for different applications. Our medical grade box PC can be used in operating room, nursing station, dialysis system or examination center, etc.

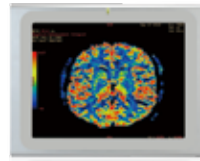
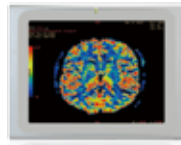
## Video Capture Solutions

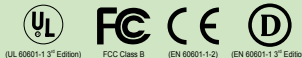


IEI provides complete video/audio capture card solutions to fulfill the demands of various applications. The capture solutions can be used in endoscopy surgery, ultrasound scanner, microscope or thermography. We also provide complete software solutions such as software development kit (SDK), and flexible open architecture allowing easy integration of camera, video signal processing, storage, and video management/security.



4K Video  
Capture Card  
HSRC-302E

## ● Medical Cart Computer



Model	POC-17i	POC-19i	POC-W22A-H81
Size	17" (4:3)	19" (4:3)	21.5" (16:9)
Max Resolution	1280 (W) x 1024 (H)	1280 (W) x 1024 (H)	1920 (W) x 1080 (H)
Brightness (cd/m <sup>2</sup> )	350	350	250
Touch	5-Wire Resistive	5-Wire Resistive	PCAP
CPU	Intel® Core™ i7/i5/i3, Intel® Celeron® CPU	Intel® Core™ i7/i5/i3, Intel® Celeron® CPU	4th Gen Intel® Core™ i5/i3, Intel® Pentium CPU
Chipset	Intel® HM55	Intel® HM55	Intel® H81
IP Level	Front: IP64	Front: IP64	Front: IP65
Certification	 <small>(UL 60601-1 3<sup>rd</sup> Edition) FCC Class B (EN 60601-1-2) (EN 60601-1 3<sup>rd</sup> Edition)</small>	 <small>(UL 60601-1 3<sup>rd</sup> Edition) FCC Class B (EN 60601-1-2) (EN 60601-1 3<sup>rd</sup> Edition)</small>	 <small>(UL 60601-1 3<sup>rd</sup> Edition) FCC Class B (EN 60601-1-2)</small>

## ● Bedside Terminal

## ● Video Capture Card / 2D Barcode Reader



Model	BIS-W19A-ULT3
Size	W18.5" (16:9)
Max Resolution	1366 x 768
Brightness (cd/m <sup>2</sup> )	250
Touch	PCAP
CPU	Intel® Skylake-ULT platform, details TBD
IP Level	Front: IP65

Model	HSRC-302E
Interface	HDMI 1.4a, 2 channel
PC Interface	PCIe x 4
Video Processing	(highest) 3840 x 2160 24p/25p/30p
Software Support	Win 7 32-bit, Win 7 64-bit, Linux
Power Consumption	15W

Model	2D Barcode Reader
Input Voltage	5V DC, Operation Power: 2.5W (500mA @ 5V)
Scan Pattern	1280 x 1024
Scan Angle	Horizontal: 42.2°, Vertical: 34.3°
Decode Capability	1D : Codabar, Code 39, Code 93, Code 128, EAN-13, EAN-8, UPCE, I25, MSI, PDF417, Micro PDF417 2D : Data Matrix, QR Code, Micro QR

## ● Medical Tablet PC / Handheld PDA



Model	ICEFIRE 2	ICECARE-10W	MODAT-531
Size	10.4" (4:3)	10.1" TFT LCD	5.3"
Max Resolution	1024 (W) x 768 (H)	1280 x 800	480 (H) x 854 (V)
Brightness (cd/m <sup>2</sup> )	350	350	350
Touch	Capacitive	Capacitive type	10-point capacitive
CPU	Intel® Atom™ N2800	Intel® Celeron® 1047UE or Intel® Core™ i7-3517UE platform	Quad-core Cortex™-A7 1.2GHz
Chipset	Intel® NM10	Intel® HM76	--
IP Level	Front: IP64	Front: IP54	IP 67

● Medical Cart **Powered by BriteMED™**



Model	pCART-N1	pCART-N2	pCART-N3	pCART-D1
Body Size	L: 54cm (+/- 1cm) W: 68cm (+/- 1cm) H: 101cm (+/- 1cm)		L: 51cm (+/- 1cm) W: 46cm (+/- 1cm) H: 94cm (+/- 1cm)	L: 52cm (+/- 1cm) W: 54cm (+/- 1cm) H: 150cm (+/- 1cm)
Structure	Aluminum-alloy. Each metal sheet is connected by electro-welding instead of screw.			
Battery Module	MBM-P940+Pb / MBM-L180 / MBM-L220 / MBM-L450		MBM-L180 / MBM-L220	MBM-L180 / MBM-L220 / MBM-L450
Wheels	1. Four 5" bearing silencing dust-proof wheels 2. Each wheel loads up to 100 kg		1. Four 4" bearing silencing dust-proof wheels 2. Each wheel loads up to 100 kg	1. Four 4" bearing silencing dust-proof wheels 2. Two wheels have brake function

● Power Station **Powered by BriteMED™**



Model	MBM-L180	MBM-L220	MBM-L450
Battery Type	LiFePO4	LiFePO4	LiFePO4
Capacity	180 W-h	220 W-h	450 W-h
Charge Time	About 1.5 hrs	About 1.5 hrs	About 2 hrs
Output Voltage/Power	DC 12V/100W	DC 12V/120W DC 19V/100W DC 5V/10W	DC 12V/120W DC 19V/100W DC 5V/10W
Dimensions (mm)	290 X 220 X 82	225 X 210 X 80	225 X 210 X 107
Weight	6.5 kg	6.5 kg	8.5kg
Operation Temperature	0°C~40°C		
Certification	UL-1642 IEC-62133 EN-60950 CE-LVD FCC PSE	UL-60601-1 IEC60601-1 UL-1642 IEC-62133	UL-60601-1 IEC60601-1 UL-1642 IEC-62133





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