

IBS-19A Series

17" Medical Panel PC features Intel® Core™ i5/i3 Processor



Features

- Best price and high-performance Intel® Core™ i5/i3 processor
- Easy cleaning and maintenance in Medical environment
- Feature-rich bedside applications for patients
- Professional point-of-care features for clinician
- Innovative LED dash light system for efficient visual management
- Easy installation with flexible mounting and cabling



Specifications

Model		IBS-19A	
CPU		Intel® Core™ i5 - 2390T 2.7GHz Intel® Core™ i3 - 21xxT above 2.5GHz Intel® Pentium® - G6xxT above 2.2GHz	
Chipset		Intel® H61 Express Chipset	
RAM Slot		Two DDR3 1333MHz SDRAM SO-DIMMs System max. 4GB	
Display	LCD Size	19"	
	Resolution	1280 x 1024	
	Brightness (nits)	300	
	Backlight	LED	
	Contrast Ratio	2000	
	Viewing Angle	89/89/89/89	
	Operation Lifetime (Hrs)	50000	
	Gamma Table	Grayscale Mode - DICOM GSDF Clear Base 6500K Grayscale Mode - DICOM GSDF Blue Base 9300K Color Mode - Gamma 2.2 6500K Color Mode - DICOM GSDF Clear Base 6500K Color Mode - Gamma 2.2 9300K Color Mode - DICOM GSDF Blue Base 9300K	
Touch Screen		5-wire resistive type	
Wireless	Wi-Fi	802.11a/b/g/n dual-band 2.4Ghz/5Ghz	
Drive Bay	HDD	1 x 2.5" SATA HDD	
	ODD	1 x Slim DVD RW 24x	
I/O Ports	Backward I/O Set	1 x External power switch connector 1 x RS-422/485	1 x USB 2.0 1 x GbE LAN RJ-45
	Downward I/O Set	1 x RS-232 2 x RJ-45 GbE LAN 1 x HDMI 2 x USB 2.0	1 x Mic-in 1 x Line-out 1 x AT/ATX Switch 1 x Reset Button
Audio/Video	Webcam	1280 x 1024 CMOS camera	
	Microphone	Stereo	
	Speakers	2 x 3W	
	Handset	Optional handset with speaker and microphone	
LED Dash Light	Digital TV Tuner	Optional DVB-T by project case	
	Upper	26 x true color LED	
	Left	20 x true color LED	
	Right	20 x true color LED	
OSD Key		6-key touch sensor pad Programmable Fn key	
RFID		Optional Mifare 13.56Mhz RFID reader	
Smart Card Reader		Optional ISO7816-1,2,3 card reader	
Remote control		Infrared remote control for display OSD	
Power	DC Input	9~28 V DC	
	External Adapter	130W 90~264 V@AC to 12V@DC	
IP Level	Front Panel	IP 65	
Environmental Condition	Operating Temp.	0°C ~ 40°C	

Bedside Infotainment + Point of Care = Interactive Bedside Station

PACSmate Interactive Beside Station IBS series is designed to improve both patient experiences and clinical efficiency with unique features. The combination of high performance computing capability and the unique LED dash light design offers the hospitals with endless possibilities in bedside entertainment, patient care and clinical management.

Patient Experiences

- VoIP phone
- Video conference
- Internet access
- Movie and music on demand
- Gaming
- DVB-T digital TV
- Nursing call
- Service ordering
- Patient education
- Billing and payment
- Illumination LED reading light
- Infrared remote control

Clinical Efficiency

- Visual notification by the LED dash light
- DICOM GSDF conformance for referral medical imaging
- Smart card and RFID integration
- WLAN and Ethernet connection
- 3.5G HSPDA connection
- Patient education
- Medicine identification by RFID
- Nursing call
- Hospital information system



High Performance Intel® H61 Chipset & 2nd Generation Intel® Core™ i Processor up to 2.7GHz

2nd Generation Intel® Core™ Processors

- Core™ i5 – 2390T 2.7GHz
- Core™ i3 – 21xxT above 2.5GHz
- Pentium® G6xxT above 2.2GHz
- Intel® HD Graphics 2000 Processor Graphic
- Support DDR3 -1333 MHz



Easy Cleaning and Maintenance

Seamless front panel design

The seamless front panel design provides IP 65 rating for easy cleaning.

Anti-bacteria housing

The plastic housing contains anti-bacteria material to reduce the living bacteria on the surface.

Front smart card reader

The front smart card reader with 45 degree insert angle prevents penetration of any liquid drops

Seamless 5-wire resistive touchscreen

The seamless 5-wire resistive is durable for cleaning with alcohol.

ODD cover

The built-in optical drive is equipped with IP 32 cover.

Front USB ports

The two front USB ports with 45 degree insert angle prevents penetration of any liquid drops



Touch Function Keys

Touch pad function keys with auto-dimming LED light are all programmable.



System Status Indicators

The easy-reading LED lights indicating various system status allows the operators to monitor the system status anytime.



LED Reading Light

The high-bright ness LED reading light with luminance control button provides illumination in dark area.



Feature-rich Bedside Applications

Built-in high-resolution auto-focus video camera

Front stereo MIC
Built-in high-sensitive stereo microphone for video conferencing

Handset for VOIP
Optional handset for VOIP phone

Smart Card Reader
Built-in SCR for ID and Billing applications

Nursing Call
Programmable nursing call button with LED indication light.

Digital TV
Optional DVB-T digital TV tuner with external antenna connection

Medical Imaging - DICOM Compliant

The IBS-19A featuring wide viewing angle LCD with LED backlight is a combination of a profession display and a high-performance PC with DICOM GSDF calibration for grayscale images and with various gamma settings for color images.

Calibrated DICOM / Gamma

Color Mode

- DICOM GSDF Clear Base 6500K
- DICOM GSDF Blue Base 9300K
- Gamma 2.2 6500K
- Gamma 2.2 9300K

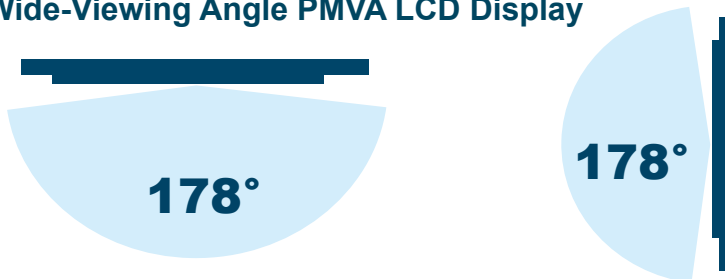


Pure Grayscale Mode

- DICOM GSDF Clear Base 6500K
- DICOM GSDF Blue Base 9300K



Wide-Viewing Angle PMVA LCD Display

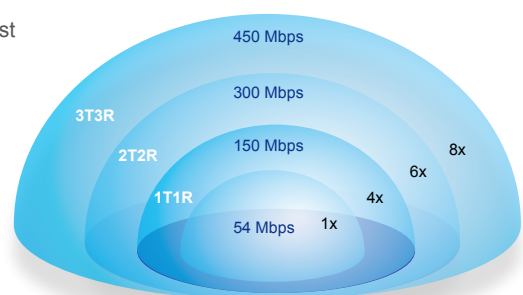


LCD Size	19"
Resolution	1280 x 1024
Brightness	300 nits
Optional High-Brightness	600 nits
Backlight	LED
Contrast Ratio	2000:01:00
Viewing Angle	89/89/89/89
Surface Treatment	Anti-Glare
Operation Life (Hrs)	50000

Wi-Fi 3T3R Wireless LAN

The IBS-19A integrates a 3T3R 802.11a/b/g/n dual-band WLAN to ensure the highest data transmission rate and most stable wireless connection in hospital environments.

- PCIe interface high speed WLAN
- IEEE 802.11a/b/g/n
- Dual-band 2.4GHz/5GHz
- 3 antenna, 3 transmitters, 3 receivers
- 20MHz / 40 MHz bandwidth
- Max. 450 Mbps link rate for 40MHz channel



Innovative LED Dash Light System for Patient Room Visual Management

PACSmate IBS-19A series is the industry-first all-in-one medical computer integrated with high-brightness true color LED Dash Light System which provides maximum flexibility and unlimited possibilities for visual notification in patient bedside, patient room facility and nursing stations. The exclusive LED Dash Light System consists of three LED light bars with a total of 33 light sections which provides ultimate possibilities for configuration of different visual notifications for all kinds of occasions in the healthcare environment.

The innovative LED Dash Light System can replace the traditional LED dome light for more flexibility as well as saving costs and maintenance efforts.



- High-brightness easy-to-see LED dash lights
- 24-bit true color LED provides a total of 1.67 million colors (256 preset colors)
- 33 light sections, each light section can be configured independently.
- 100% software programmable colors, light duration, flash rates and light patterns
- Provide PACSmate LED Dash Light System simulation software for quick and easy configuration and preview of the light script.
- Provide software API for software vendors with easy integration of all control commands to any specific healthcare application software. Software vendors are free to take the advantage of the PACSmate LED Dash Light System, creating additional values for the healthcare applications.

PACSmate LED Dash Light System Simulation Software

33 Light Buttons Group Select Buttons Function Buttons

Duration (1-20 sec)

Scripts

256 Color

Light	Color	Duration	Script
1	Red	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33
2	Green	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33
3	Blue	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33
4	Yellow	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33

Flexible and Easy Installation

HDD quick access
HDD can be accessed from the independent cover without opening the whole system

Hybrid I/O sets
Two sets of I/O connectors facing downward and backward for flexible integration.

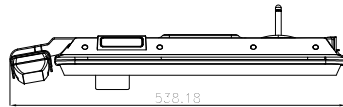
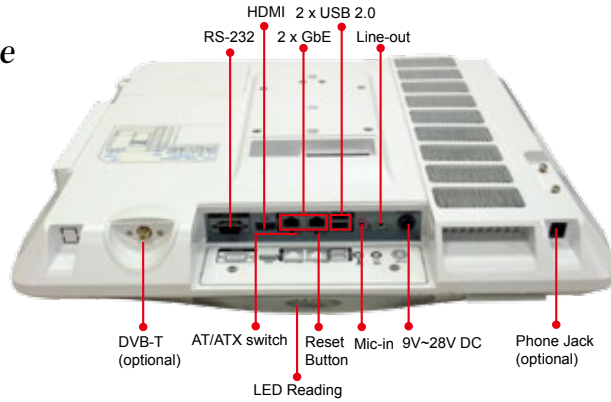
DVB-T antenna connector

VESA 100 mounting
With the hybrid I/O design, the IBS-19A can be mounted onto a wall, ceiling or desktop stand with the standard VESA 100 interface.

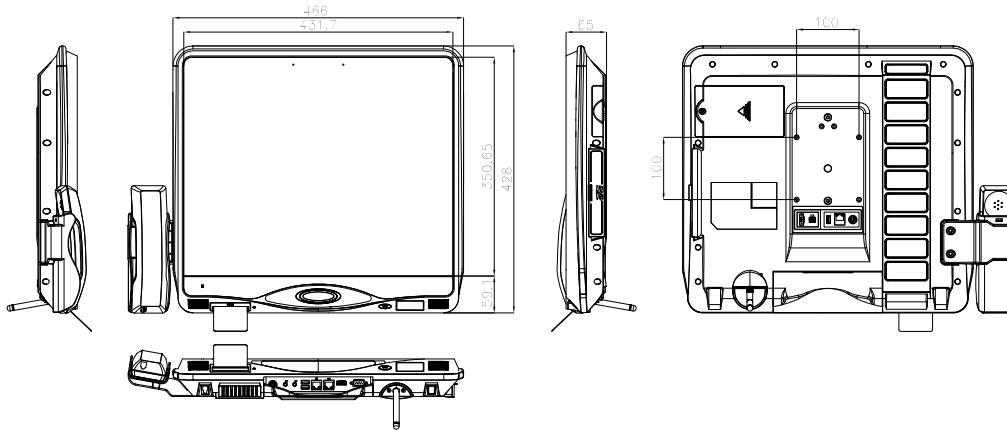
Handset bracket mounting

Handset connector (RJ-11)

Rich I/O Interface



IBS-19A Dimensions (Unit: mm)



Ordering Information

Part No.	Description
IBS-19A3L-P/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, with Pentium® G6xxT CPU (2.2GHz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, R10.
IBS-19A3D-P/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, with Pentium® G6xxT CPU (2.2GHz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, DICOM GSDF Calibrated, R10.
IBS-19A3S-P/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, with Pentium® G6xxT CPU (2.2GHz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, LED Dash Light, RFID, Smart Card Reader, AC to DC 19V Power Adapter, R10.
IBS-19A3L-i3/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i3 21xxT (2.5Ghz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, R10.
IBS-19A3D-i3/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i3 21xxT (2.5Ghz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, DICOM GSDF Calibrated, R10.
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IBS-19A3L-i5/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i5 2390T 2.7GHz, TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, R10.
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Options

Item	Part No.	Item	Part No.
Handset	IBSOPT-HS-R10	Smart Card Reader	IBSOPT-SCR-R10
Mifare RFID Reader	IBSOPT-RFID-R10	Arm	ARM-31-RS
Wall Mounting Kit	AFLWK-19B	Stand	STAND-300SW-RS/STAND-A19/STAND-A21-R10/STAND-C19

Packing List

Item	Part No.	Q'ty	Description
Utility CD	7B000-000773-RS	1	Drivers and User Manual
Power Adapter	63040-010120-010-RS	1	PMP120-13-2, 90-264VAC Input, 120W, 19VDC output
Power Cord	32702-000200-100-RS	1	European, 1830mm
Pen	43125-0002C0-00-RS	1	For Resistive Touch
Mounting Bracket	41120-0310C0-00-RS	1	Mount Bracket
Infrared Remote Controller	7Z000-SLPCB005-RS	1	