

IBS-19A series

Interactive Bedside Station

- Best Price / Performance Intel Core i Sandy Bridge Platform
- 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 Cable Routing



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
- IR Remote Control

Clinical Efficiency

- Visual Annunciation 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 – 2100T 2.5Ghz
- Pentium G620T 2.2Ghz
- Intel HD Graphics 2000 Processor Graphic
- Support DDR3 -1066



Product Name	Intel® BD82H61 PCH
Code Name	Cougar Point
Essentials	
Status	Launched
Launch Date	Q1'11
Embedded Options Available	Yes
Supplemental SKU	No
Lithography	65 nm
Max TDP	6.1 W
Recommended Customer Price	30.00
Graphics Specifications	
Integrated Graphics	Yes
Intel® Clear Video Technology	Yes
Dual Display Capable	Yes

Easy Cleaning and Maintenance

Seamless front panel design

The seamless front panel design provides IP65 rating for the front panel with easy of cleaning.

Anti-Bacteria Housing

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

ODD Cover

The built-in optical driver is equipped with IP32 cover.



5-Wire Resistive seamless touch screen

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

Front USB Ports

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

Front Smart Card Reader

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

Feature-rich Bedside Applications



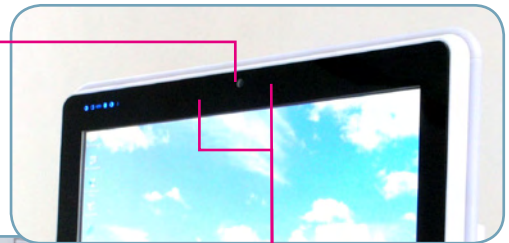
Built-in high resolution auto-focus video camera

Handset for VOIP

Optional Handset for VOIP Phone

Digital TV

Optional DVB-T digital TV tuner with external Antenna connection



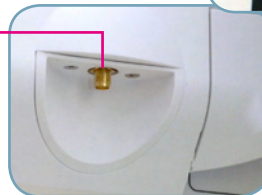
Front stereo MIC

Built-in high-sensitive stereo microphone for video conferencing



Smart Card Reader

Built-in SCR for ID and Billing applications



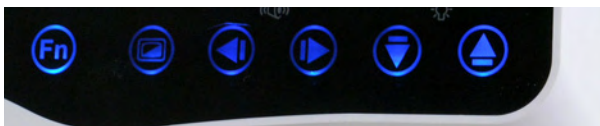
Nursing Call

Programmable nursing call button with LED indication light.



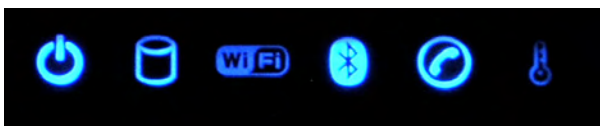
Touch Function Keys

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



System Status Indicator

Easy-reading LED lights for various system status ensure the operators to acknowledge the systems status all the time.

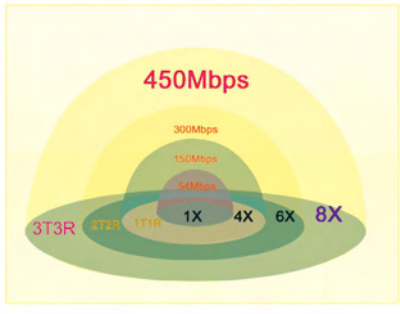


LED Reading Light

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



WiFi 3T3R Wireless LAN



- PCIe Interface high speed WLAN
- IEEE 802.11 a/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

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

Medical Imaging -DICOM Compliant

IBS-19A is a combination of Profession Display and high-performance PC with DICOM GSDF calibrated for grayscale images and various Gamma setting for color images featuring wide viewing angle LCD with LED backlight.

Calibrated DICOM / Gamma

Color Mode

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

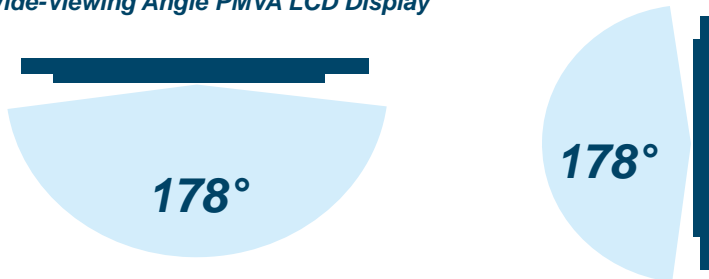


Pure Grayscale Mode

- 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

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 total 33 light sections which provides ultimate possibilities for configuration of different visual notifications for all kinds of occasions in the healthcare environment.

The innovation LED Dash Light System can replace the traditional LED dome light with further more flexibility, saving costs and maintenance efforts.

- High-Brightness easy-to-see LED Dash lights
- 24bit true color LED provides total 1.67 million colors (256 preset colors)
- Total 33 light sections, each light section can be configured independently.
- 100% software programmable for colors, light duration, flash rates and light patterns
- Provided Pacsmate LED Dash Light System Simulation Software for quick and easy configuration and preview of the light script.
- Provided 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

LED Simulator.exe

- a. Light Section Configurator
- c. Script command line
- e. Command line Editor

Color Editor

Preset Colors

- d. Flash Rate/Loop Setting
- f. Main functions

b. Light pattern Script lines

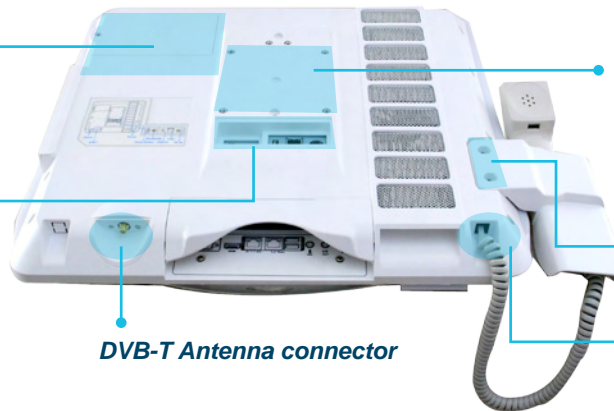
Flexible and Easy Installation

HDD Quick Access

HDD can be accessed from the independent door without open the whole back cover.

Hybrid I/O Sets

Two sets of I/O connectors with both downward and backward directions for most flexible integration



VESA 100 mounting

With Hybrid I/O design IBS-19A can be mounted with Wall-Mount, Ceiling-Mount, or Desktop Stand with standard VESA 100

Handset bracket mounting

Handset connector-RJ11

DVB-T Antenna connector

Specifications

CPU	Intel Core i Sandy Bridge Processor Core i5 – 2390T 2.7Ghz Core i3 – 2100T 2.5Ghz Pentium - G620T 2.2Ghz	
Chipset	Intel H61 Express Chipset	
RAM Slot	Two DDR3 1066MHz 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	
Touch Screen	Resistive 5-wire	
Wireless Connection	Wifi 802.11a/b/g/n Dual-band 2.4Ghz/5Ghz Bluetooth 2.1 + EDR(i internal USB)	
Drive Bay	HSDPA	Optional 3.5G HSDPA modem
	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 RS422/485 1 x USB 2.0 1 x GbE LAN RJ-45
	Downward I/O Set :	1 x RS232 2 x Gbe LAN RJ-45 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/MIC Digital TV Tuner Optional DVB-T & ISDB-T mini card
LED Dash Light	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
IR Remote		IR Remote for Display OSD control
Power	DC Input	9-28 V DC
	External Adaptor	130W 90-264 V AC to 12V DC
IP Level	Front Panel	IP65
Environmental	Operation Temp.	0 ~ +40 degree C
Condition	Storage Temp.	-20 ~ +60 degree C