

SONY



ImageCore HD™ Digital Capture System  
Capturing full HD is now a simple operation.

**HDNA**  
High Definition. It's in our DNA.



Surgeons have enough details to consider during a critical operation; the last thing they need to be concerned about is the video equipment. Sony's ImageCore HD Digital Capture System is the virtually worry-free way to record HD still and video images acquired during a procedure. It provides all the video multi-tasking in a simple, one-touch control - so that capturing a major operation - is now a simple operation.

## Sony Brings HD to the O.R.

A global leader in HD technology with over 20 years of innovative healthcare product development, Sony is uniquely qualified to play a leading role in the evolution of HD to the O.R.

Now, the ImageCore HD Digital Capture System enhances Sony's full line of HD video solutions including cameras, printers, and monitors. The ImageCore HD Digital Capture System is a breakthrough HD image and video recording tool for the O.R., the latest flagship medical product in Sony's HD legacy. High Definition. It's in our DNA.

## Put the ultimate multi-tasking system to work in your O.R.

No other medical device is quite comparable to Sony's ImageCore HD Digital Capture System. It's an all-in-one design that performs complex tasks, yet it's simple to use. It digitally records HD still and video images - simultaneously - in full 1920 x 1080 resolution for unrivaled image quality. Offering universal connectivity to other major manufacturers' endoscopic camera systems, the ImageCore HD system acts as the imaging control center in the operating room.

The unique one-piece design utilizes a 17-inch (viewable area, measured diagonally) touchscreen with a powerful, yet simple user interface. Captured images can be sent directly to the hospital network, stored locally in its robust hard drive or saved to a wide variety of portable media formats. It can store more than 90 hours of HD video and up to 100,000 still images, which can be easily converted to powerful, PowerPoint® presentations for training and education.







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### **Universal connectivity and compatibility.**

The applications of the ImageCore HD system are universal. It captures still and video images in either high-definition or standard-definition resolution; it connects to DICOM or non-DICOM networks; it is compatible with any printer and includes built-in drivers for Sony digital color printers. Multiple video input formats enable compatibility with all surgical system manufacturers.



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### **An all-in-one design for an all-encompassing solution.**

The ImageCore HD system's all-in-one design incorporates a 17" (viewable area, measured diagonally) touchscreen monitor with a built-in PC, CD/DVD/Blu-ray Disc™ drives and five USB ports. Convenient features such as Sony's IZZITON™ tally light alert the user when images are being recorded, and it is VESA mountable on a cart, boom arm, wall or table top. Optional add-ons include a foot switch, an audio kit for voice annotation and a desktop or rolling floor stand.

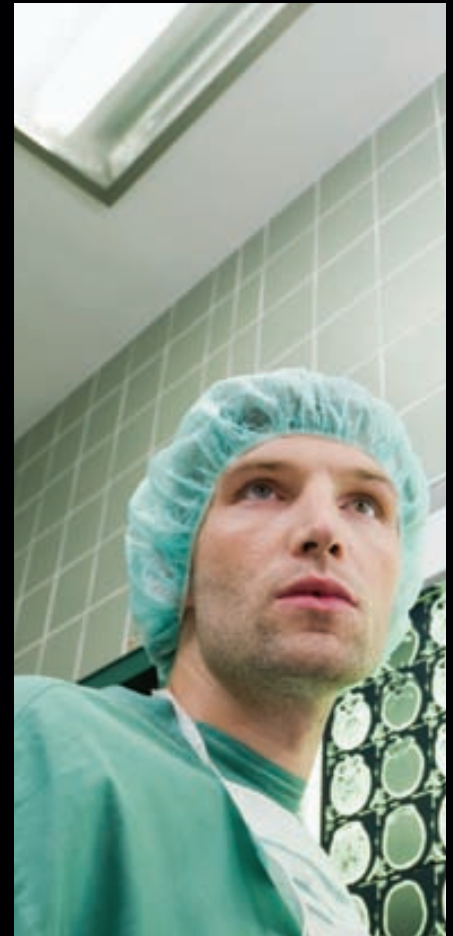


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### **Designed for O.R. functionality.**

The space-conscious, integrated design of the ImageCore HD system was created to achieve optimum functionality in the O.R. The touchscreen's simple, intuitive user interface adds practical value and versatility, and the unit's portable size makes it ideal for use in multiple operating rooms. With full HD image capture at 1920 x 1080i, HD quality can be maintained throughout the workflow.

**IMAGECORE HD™**  
*Digital Capture System*



**Packed with power,  
performance and speed.**

Packaged with a high-speed Intel® Core 2 Duo processor and a HD video encoder for full HD 1080i quality, the ImageCore HD system provides excellent imaging performance with powerful speed. With internal memory for over 90 hours of HD video and local storage of over 100,000 images, importing patient information, sharing files with multiple workstations and saving files to portable media for immediate playback are easily accomplished.

Discover how Sony's ImageCore HD Digital Capture System can multi-task for your O.R.

 [click: sony.com/imagecorehd](http://sony.com/imagecorehd)

# BZMD-1000 ImageCore HD Specifications

## Product Specifications

- 2.16 GHz Intel Duo-Core II processor (T7400)
- 4 GB RAM
- 750 GB HDD
- Sony DVD/CD/Blu-Ray drive
- 1280 x 1024 resolution 17" LCD panel
- SAW (Surface Acoustic Wave) touchscreen
- Intel 945GM video chipset
- Sony BKBU-8000 Digital Capture Card

## Video Inputs

- Analog
  - RGB or YPbPr or Monochrome
  - S-Video
  - Composite
- Digital
  - DVI-D up to 1080p/60
  - SDI, SMPTE 259M up to 720 x 576 pixels (270 Mbps)
  - HD-SDI, SMPTE 292M up to 1920 x 1080 pixels (1.45 Gbps)

## Supported Formats

- NTSC, PAL and SECAM
- Component RGB
- Component YPbPr
- Monochrome
- S-Video
- DVI-D single link
- HD-SDI 1080i
- 1280x1024
- 1024x768
- 800x600
- 640x480

## Audio

- Stereo audio recording with MPEG-1 Layer II encoding at 16 bit/48 kHz resolution

## Controls

- 6 trigger inputs
- 1 digital output

## Physical

- Dimensions: 16.2" (412) W x 15" (380) H x 7.6" (192) D
- Weight: 29.5 lbs (13.4 Kg)
- Powder coated stainless steel cabinet
- VESA 100 mounting

\*Viewable area, measured diagonally.

## LCD

- Brightness: min. 300 cd/m
- Contrast ratio: 500:1
- Resolution: 1280 x 1024
- 17" SAW (Surface Acoustic Wave) technology touchscreen

## Connections:

- One BNC female connector for Composite or SDI or HD-SDI
- One Mini-DIN 4 pin female connector for S-Video
- One HD-15 female connector for RGB or YPbPr or Monochrome
- One DVI-I 29 pin female connector for DVI single link (digital only)
- One Stereo Mini-jack for line level audio
- One Stereo Mini-jack for line level audio output
- One Mini-DIN 9 pin female for General Purpose Input (GPI) trigger and digital output
- One XLR male for power supply
- Four general USB and one printer only USB
- One RJ45 10/100/1000 Mbps Ethernet
- One VGA 15 pin female Output

## Power Supply

- Dimensions: 8.17" (208) L x 3.23" (82) W x 1.96" (50) H
- Weight: 2.2 lbs (0.96 Kg)
- Input Voltage: 100-240 VAC 50-/60Hz
- Power Consumption: 150 W
- Output Voltages: 19 VDC

## Environment

- Temperature (Operating): 32 - 95° F (0 - 35° C)
- Temperature (Storage): -4 to 160° F (-20 - 60° C)
- Humidity (Operating): 20 to 80%
- Humidity (Storage): 10 to 90%

## Compliance

- MDD Compliant
  - Complies fully with latest Medical Devices Directive standards for use in operating rooms and other clinical environments.
- CE compliant
- UL Listed
- Product safety:
  - EN 60601-1 Usage Type B, UL 60601-1
- Electromagnetic compatibility:
  - EN 60601-1-2, EN 61000-3-2, EN 61000-3-3, FCC Class B
- FDA 510K
- DICOM
  - Supports DICOM Worklist, Store and Print
- MPEG-2 MP at ML
- MPEG-2 MP at HL

## Digital Capture Card (Sony BKBU-8000)

- Input Range: 0.5 Vpp to 1.0 Vpp
- Offset: -1.0V to 2.0V DC
- 8 bit gain, 8 bit black level, white balance, phase adjustment
- 75 Ohm termination
- AC coupled with DC restoration
- H and V sync input on RGB and YPbPr only
- Pixel rate up to 110 MHz
- Horizontal Frequency: 90 kHz
- Pixel Jitter: +0.5ns
- S/N Ratio: 47 dB
- Linearity: >99%
- Gain and Offset stability: 1% from 15 °C to 40°C
- A/D Conversion: 8 bits each of R, G, B ( 24 bits/pixel ) 24 bits YPbPr
- Color Formats: RGB 24, YCbCr 4:2:2, 8 bit monochrome
- Horizontal anti-aliasing filtering

## Standard Accessories

- Power supply with AC cable - XLR type cable for power (x1)
- 5" BNC to BNC jumper cable used during DVI-D connection (x1)
- Interface remote breakout cable:
  - Three Stereo Mini-jack trigger inputs
  - One Stereo Mini-jack digital state output
- BZMD-CFR1 USB CompactFlash® adapter (x1)
- BNR25H 25GB recordable Blu-ray disc (x1)
- 8GB MicroVault Turbo USB Flash Drive (x1)
- Operation Manual CD – English (x1)
- Setup Guide – English (x1)

## Optional Accessories

- BZMD-CFR1 USB CompactFlash® adapter
- BZMD-DTS1 Desktop stand
- BZMD-KEY1 medical grade USB keyboard
- BZMD-RFS1 rolling floor stand with keyboard tray
- DVOAUDIOKIT audio kit for voice annotation
- FS-24 Medical Foot Switch

**SONY**

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