



## ImageCore HD™ Digital Capture System

This new state-of-the-art digital capture system records HD still and video images in full 1920x1080 resolution. Offering universal connectivity to major manufacturers' endoscopic camera systems, the ImageCore HD system acts as the imaging control center in the operating room. Ready for mounting on a cart, boom arm or tabletop, the unique one-piece design utilizes a 17-inch\* 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 including Blu-ray Disc™, CompactFlash® media, DVD, CD or any USB storage device. The DICOM compatible system can locally store more than 90 hours of HD video and up to 100,000 still images and can easily convert images and video to Microsoft PowerPoint® presentations.

\*viewable area, measured diagonally

# 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

## 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

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