SONY

BZMD-1000 ImageCoreHD

Touch screen operated, HD video recording and DICOM documentation solution.

ImageCoreHD is a state of the art solution for multi-purpose recording of surgical procedures. Offering the industry's widest range of video inputs, ImageCoreHD supports the majority of surgical imaging devices. Simultaneously supporting native file formats and the DICOM standard, ImageCoreHD is a future proof investment that can support advanced video documentation with or without a PACS network infrastructure.

Features

All-in-one device with built-in touch screen.

Easy and intuitive to use without the need for extensive training.

Parallel DICOM and non-DICOM workflows

ImageCoreHD can transfer studies as either DICOM files, for integration with PACS, or as native MPEG and JPEG files across common networks.

Full HD recording

Capture your actions with full HD resolution and repurpose with ease.

Large built-in hard drive

Large HD studies are no problem for ImageCoreHD with its sizeable built-in hard drive. Don't forget to back-up your studies on the network for extra security though.

Direct PowerPoint export.

ImageCoreHD quickly and easily create presentation files, containing even HD footage, which are ready to go.

Benefits

Easy and intuitive to use with no need for a keyboard or mouse.

Thanks to the built in touch-screen, all staff can quickly and easily access the powerful functionality of the ImageCoreHD without the need for extensive training.

Future proof investment supporting both DICOM and non-DICOM workflows

Surgical procuedures can be recorded either as DICOM complaint patient studies or as collections of native MPEG and JPEG files depending on the prevalent network facilities and workflow preferences. As a result ImageCoreHD can be installed before PACS is implemented. And even when PACS is present, the non-DICOM functionality supports a wider range of workflows to meet the varied needs of individual users.

Capture and share surgical procedures in full HD resolution and create the maximum impact.

Full HD resolution video recording (for non-DICOM applications only) is supported, allowing surgeons to capture and repurpose high quality footage with ease.

Take away HD footage and DICOM studies in the most suitable format.

Multi-format removable media outputs allow the export of DICOM or native file (inc HD video) studies on blu-ray, DVD, CD and USB memory, whichever is most suitable for the user.

Move swiftly from procedure to presentation with direct PowerPoint export.

The automated production of ready to use presentation, containing complete study contents - video or still in SD or HD, allows surgeons to quickly move in to presentation mode with minimal hassle.

Technical Specifications

General	2.16 GHz Intel Duo-Core II processor (T7400) 4 GB RAM 750 GB HDD Sony BWU-200S 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	Analogue 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	PAL/NTSC 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 high current 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, SDI or HD-SDI One Mini-DIN 4 female pin 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 input One Stereo Mini-jack for line level audio output One Mini-DIN 9 pin female for General Purpose Input (GPI) trigger and high current digital output One XLR male for power supply Three USB One RJ45 10/100/1000 Mbps Ethernet One VGA 15 pin female Output
Power Supply	Dimensions: 10.5" (267) W x 3.0" (77) H x 4.8" (123) D Weight: 4.0 lbs (1.8 Kg) Input Voltage: 100-240 VAC 50-/60Hz Power Consumption: 150 W Output Voltages: 12 VDC
Environmental	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 and MPEG -2 HD
Blu-Ray drive (SONY BWU-200S)	BD-R DL Write : 4x (CLV) BD-RE DL Write : 2x (CLV) BD-ROM Read : 4x max CD Read : 40x max CD-R Write : 40x max (Z-CLV) CD-RW Write : 32X max (Z-CLV) DVD Read : 16X max DVD+R DL Write : 4x (CLV) DVD+R Write : 16X max (Z-CLV DVD+RW Write : 8X max (Z-CLV) DVD-R DL Write : 4x (CLV) DVD-R Write : 16X max (Z-CLV) DVD-RAM Write : 5x (Z-CLV) DVD-RW Write : 6x (CLV)
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
DVI-D to HD-SDI Converter (GEFEN SNY-DVI-2-HDSDISL)	Input: DVI-D 29 pin female (digital only) Output: BNC HD-SDI 1080i/60 10-bit resolution Frame rate conversion to / from any refresh rate Input Video Bandwidth: 165 MHz Output Video Bandwidth: 1.485 Gbps