NAi
TechProducts
A McDONOUGH MEDICAL COMPANY

the DiCOM box®
CA - Video to DICOM

PWR

HD

Connect your non-DICOM modalities to the PACS network.

"Add network connectivity to virtually any video-based imaging system."

The DiCOM box CA provides "off the shelf" connectivity for a variety of network applications such as Print and Archive Servers via the DICOM 3.0 standard. Ideal for creating flexible and scalable print networks or tying various modalities into PACS, teleradiology networks, and RIS interface via Modality Worklist.

The *CA* captures static video images from freeze-frame or last image hold up to 150MHz video pixel clock rates, 2048x1024 matrix. The *CA* supports more than 250 modalities.
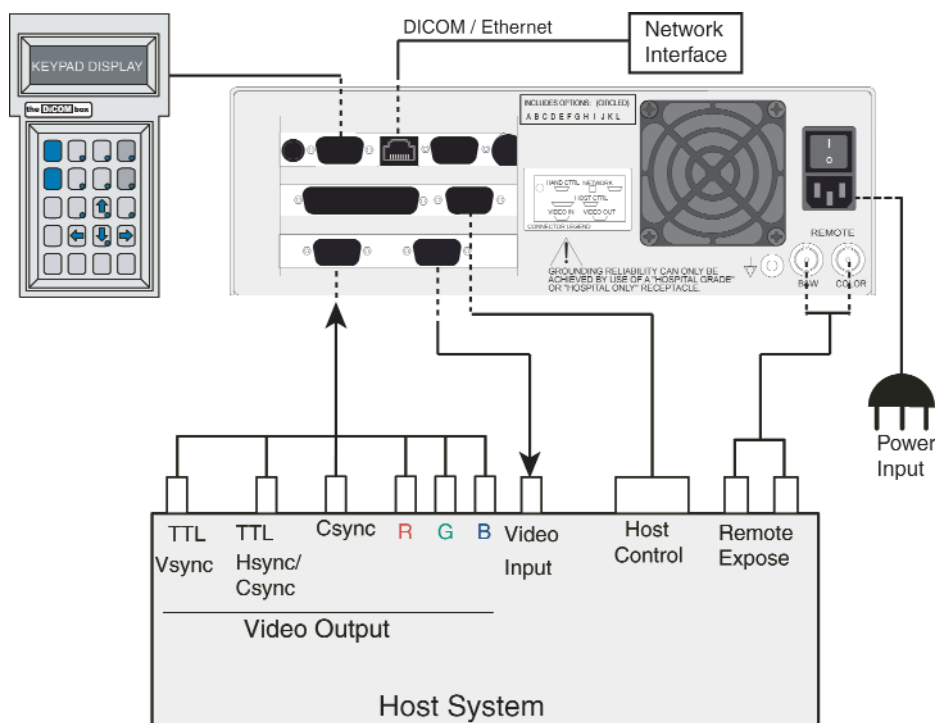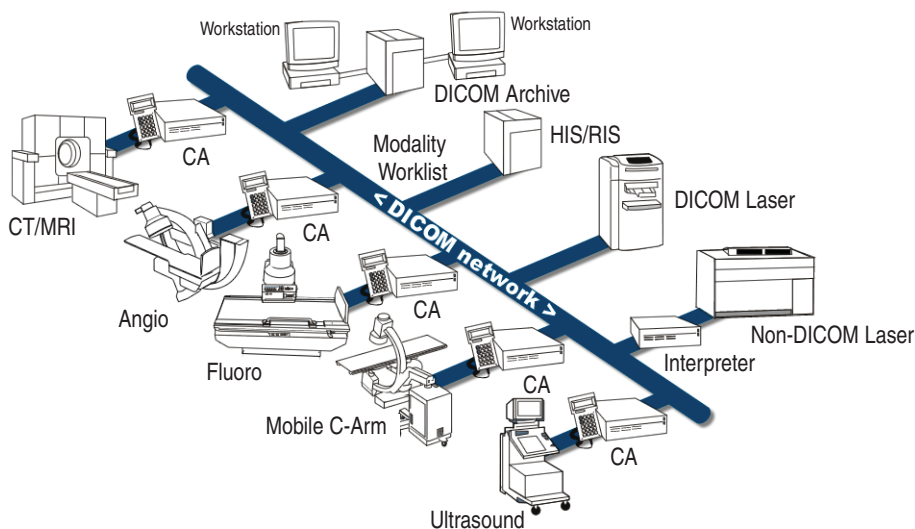
Online user tutorial is now available at www.dicombox.com. For additional information, contact NAI Tech Products Toll Free at 866-342-6629, or 530-887-1008.

Features:

- DICOM Print
- DICOM Store
- Modality Performed Procedure Step (MPPS)
- DICOM Storage Commitment
- DICOM Modality Worklist
- Multi-Modality compatible with over 250 models
- Host video rates up to 20MHz pixel rate
- High line rate configurations available
  - up to 150MHz pixel clock rate
  - up to 2048 x 1024 matrix
- Interlaced or non-interlaced video input
- Multiple Print Destinations
- Simultaneous transfer to 2 storage class SCP
- Redundant Image Backup
- OCR Optical Character Recognition
- Quick network disconnect for mobile applications
- Remote foot or hand switch control interface
- Host Control interface - optional
- Software and option upgradability in the field
- Remote administration via telnet & FTP

Specifications

the **DiCOM** box ®
CA - Video to DICOM

Workstation
Workstation
DICOM Archive
HIS/RIS
Modality Worklist
< DICOM network >
DICOM Laser
CA
CA
CT/MRI
Angio
Fluoro
CA
CA
CA
Mobile C-Arm
Non-DICOM Laser
Interpreter
Ultrasound

KEYPAD DISPLAY
the DiCOM box
DICOM / Ethernet
Network Interface
INCLUDES OPTIONS: (CIRCLED) A B C D E F G H I J K L
GROUNDING RELIABILITY CAN ONLY BE ACHIEVED BY USE OF A "HOSPITAL GRADE" OR "HOSPITAL ONLY" RECEPTACLE.
REMOTE
B&W   COLOR
Power Input

TTL Vsync | TTL Hsync/ Csync | Csync | R G B | Video Input | Host Control | Remote Expose

Video Output

Host System

NAi TechProducts
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www.dicombox.com

- **DICOM Service Classes**
  DICOM Print
  Optional DICOM Store
  Optional DICOM Modality Worklist
  Optional DICOM MPPS
  Optional DICOM Storage Commitment
- **Standard Video Input (terminated, 75 ohms)**
  Monochrome composite video into Green input
  Red, Green, Blue (RGB) and composite sync
  (Can be configured for sync on Green & separate sync)
  Nominal 525/625lines 30/25 fps
  Interlaced or non-interlaced
  Pixel Clock Minimum: 7 MHz.
  Pixel Clock Max: 20 MHz / Low Line Rate
  150 MHz High Rate
- **Optional Remote Operator Interface Keypad**
- **Optional Color Print Capability**
- **Optional High Line Video Input**
  150 MHz / High Line Rate Image
  Image Matrix Max: 2048 x 1024
- **Video Acquisition**
  Single Frame Monochrome Capture
  Up to 768 x 580, 20MHz, 8 bit
  Single Frame Color Capture
  24 bit color (16,777,216 colors)
  Optional High Line Capture
  Up to 2048 x 1024, 150MHz, 8 bit mono, 24 bit color
- **Internal Storage**
  2.2GB or greater Hard Drive
- **Network**
  Ethernet 10/100 base T - selectable
- **Connectors**
  Video I/O High Density DB15, Female pins
  Network: 8 pin modular jack (RJ45)
  Operator Interface Keypad: DB9, Male pins
  Host Control Input: DB9, Male pins
  Remote Capture Input: BNC, Female pins
- **Power Input**
  115-230 Volts, ±15% 47-63 Hz, 120 VA
- **Physical Characteristics**
  Module
  Height: 3.25 inches (8.25 cm)
  Width: 10.125 inches (25.72 cm)
  Depth: 14.125 inches (35.88 cm)
  Weight: 8 pounds (3.68 kg)
  Keypad
  Height: 7.15 inches (18.16 cm)
  Width: 4.10 inches (10.41 cm)
  Depth: 0.95 inches (2.41 cm)
  Weight: 8 ounces, (227g)
- **Environmental Operating**
  Temperature: +50°F to +104°F, (+10°C +40°C)
  Barometric pressure: 700 hPa to 1060 hPa
  Relative Humidity: 5% to 80% non-condensing
- **Transit**
  Temperature: +14°F to +122°F (-10°C to +50°C)
  Relative Humidity: 5% to 85% non-condensing
- **Clearance Requirements**
  3 inches (7.6cm) for rear panel cable connection
  Do not obstruct ventilation airflow at
  front and rear of module
- **Classification**
  IEC601 Class I,
  Type B ordinary equipment, continuous operation
- **Agency Approvals**
  UL60601-1; CAN/CSA C22.2 NO. 601.1-M90
  EN 60601-1-2 Class B Group 1
  FCC part 15