NAi
TechProducts
A McDONOUGH MEDICAL COMPANY

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 including HIS/RIS integration via Modality Worklist and other network applications such as print and archive servers via the DICOM 3.0 standard. Ideal for creating flexible and scalable DICOM networks and tying various modalities to PACS, teleradiology and print networks.

The *CA* captures static video images from freeze-frame or last image hold up to 166MHz video pixel clock rates, 2048x1024 matrix. The *CA* is compatible with 1,000 modality models.
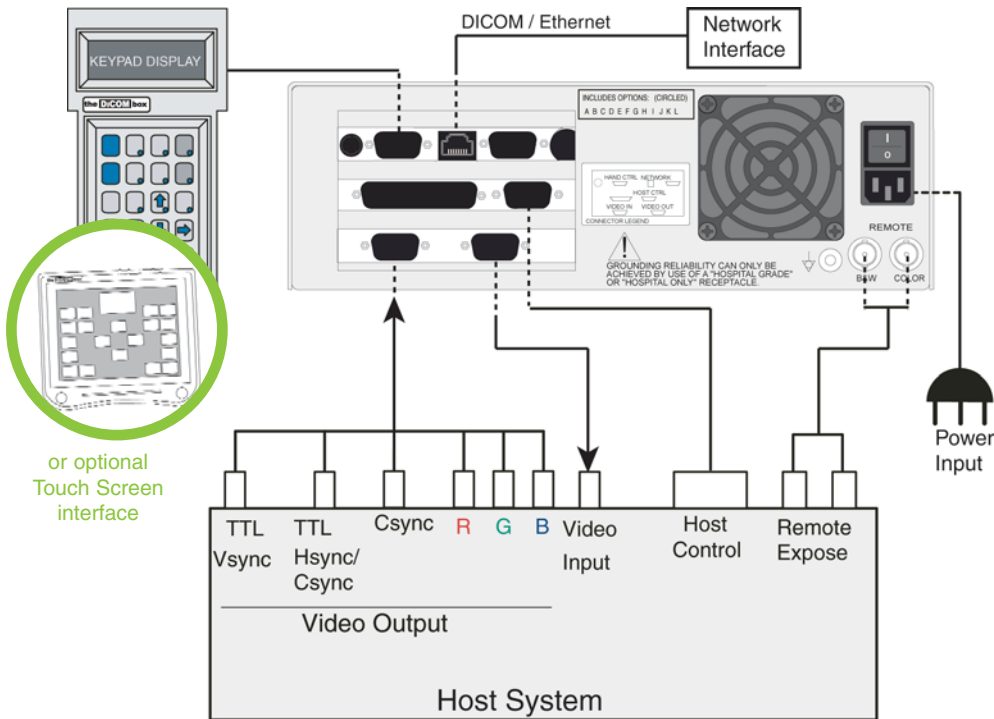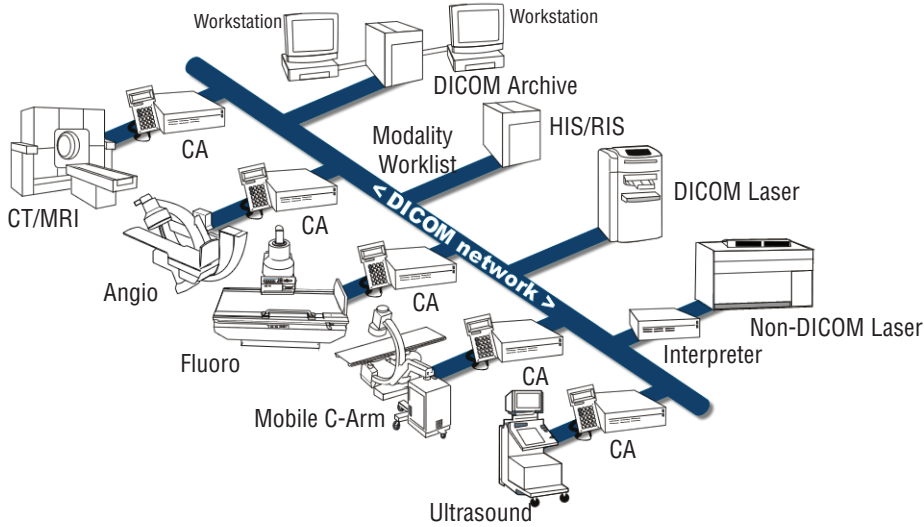
Online user tutorial is now available at www.dicombox.com. For additional information, contact NAI Tech Products Toll Free at 866-342-6629, or 530-887-1008.

Features:

- Configurable DICOM Services
  DICOM Print
  DICOM Store
  Modality Worklist
  Modality Performed Procedure Step (MPPS)
  Storage Commitment
- Multi-Modality compatible with over 1,000 mod
- Optional TouchScreen Interface
- 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 applicatio
- Remote foot or hand switch control interface
- Host Control interface - optional
- Software and option upgradability in the field
- Remote administration via telnet & FTP

the DiCOM box®
CA - Video to DICOM

Workstation

Workstation

DICOM Archive

CA

Modality Worklist

HIS/RIS

CT/MRI

< DICOM network >

DICOM Laser

CA

Angio

CA

Non-DICOM Laser

Fluoro

CA

Interpreter

Mobile C-Arm

CA

CA

Ultrasound

KEYPAD DISPLAY

the DiCOM box

or optional
Touch Screen
interface

DICOM / Ethernet

Network
Interface

INCLUDES OPTIONS: (CIRCLED)
A B C D E F G H I J K L

HAND CTRL   NETWORK
HOST CTRL
VIDEO IN   VIDEO OUT
CONNECTOR LEGEND

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
A McDONOUGH MEDICAL COMPANY

Specifications

- **DICOM Service Classes (configurable)**
  DICOM Print
  DICOM Store
  Modality Worklist
  MPPS
  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: 166 MHz High Rate
- **Optional Remote Operator Interface Keypad**
- **Optional Color Print Capability**
  Image Matrix Max: 1600 x 2046 RGB and B/W
- **Video Acquisition**
  Single Frame Monochrome & Color Capture
  Up to 2048 x 1024, 166MHz, 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**
  IEC 60601 Class I, Type B
  EN 60601-1-2 Class B, Group 1
  IEC 60529, IP 21
- **Agency Approvals**
  UL 60601-1 (1st Edition);
  EN 60601-1-2; CISPR 11B;
  CAN/CSA C22.2 No 601.1-M90

NSAI
ISO 13485:2003
MEDICAL DEVICES

005-00109-00 Rev j
11/07-2M