NAI Tech Products
A McDONOUGH MEDICAL COMPANY

Connect your current imaging equipment to the DICOM network.

the DiCOM box® CA+

Cine to DICOM

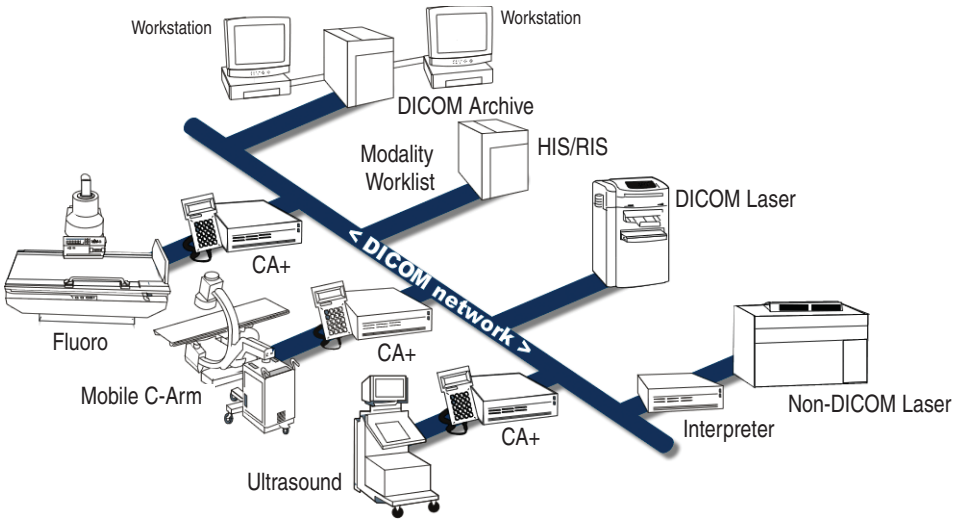
The DiCOM box CA+ is a universal DICOM interface that allows users to review dynamic images and cine loops outside the normal confines of modality workstations. The *CA+* provides real time video acquisition and DICOM conversion from both monochrome and color video sources, capturing at least ten seconds of video data acquired at 30fps in RGB or 1K x 1K monochrome. Acquisition rates are selectable from 3.75 to 30 fps, and record modes include R wave trigger, prospective and retrospective. The *CA+* simplifies the connectivity process and provides cine acquisition, lossless and lossy image compression, DICOM Store, Print, Performed Procedure Step and Storage Commitment for ultrasound fluoroscopic and cardiac angiographic systems. The *CA+* can be fully integrated to HIS/RIS.

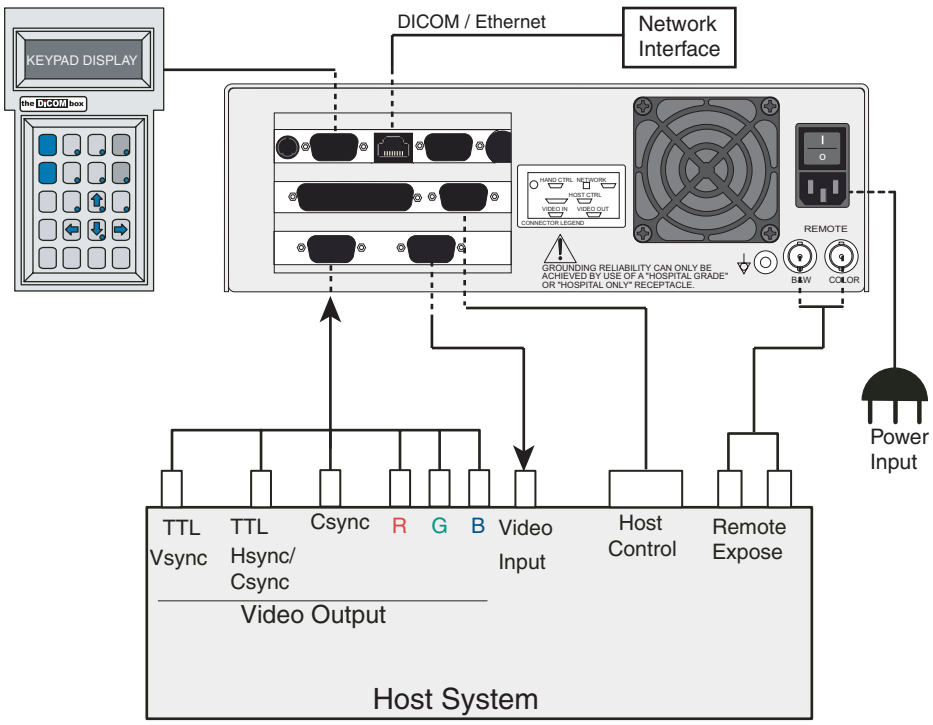
For additional information, contact NAI Tech Products Toll Free at 866-342-6629, or 530-887-1008.

Features:

- DICOM Print, DICOM Store
- Modality Worklist
- Modality Performed Procedure Step (MPPS)
- Storage Commitment
- Real-time video acquisition up to 10 seconds RGB color or monochrome
- R-wave trigger 1 to multiple cycles
- Prospective and retrospective record modes from every frame to every seventh frame
- Playback review through host display or attached VGA/NTSC display (not included)
- DICOM compliant JPEG lossy compression or non-compressed transfer
- Interlaced or non-interlaced video input
- Software and option upgradability in the field
- Remote administration via telnet & FTP

the DiCOM box
CA+ - Cine to DICOM





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Specifications

- **DICOM Service Classes**
  - DICOM Print
  - DICOM Store
  - DICOM Modality Worklist
  - Modality Performed Procedure Step
  - Storage Commitment
- **Video Input (terminated, 75 ohms)**
  - Red, Green, Blue (RGB) and composite sync
  - Monochrome composite video on green video input
  - TTL composite or seperate sync
  - Nominal 525/625lines 30/25 fps
  - interlaced or non-interlaced
  - Pixel Clock Minimum: 7 MHz.
  - Pixel Clock Max: 40 MHz / RGB
    120 MHz Monochrome
  - Image Matrix Max: 1024 x 1024 Monochrome
    800 x 600 RGB
  - Video Output locked to video input, or VGA
- **Video Acquisition**
  - Approximately 10 seconds at 30/25fps
  - 384MB video acquisition RAM
  - 30, 15,10, 7.5, 6, 5, 4, 3 fps acquisition rates
- **Acquisition modes**
  - Retrospective, Prospective,
  - R Wave Trigger - 1 to multiple cycles
- **Image Review**
  - Configurable for image playback through host display
  - Variable frame rate playback freeze frame to 30fps
- **Network**
  - Ethernet 10/100 base T - selectable
- **Image Compression**
  - JPEG lossy, or uncompressed
- **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
- **Agency Approvals / Classification**
  - UL 2601-1; IEC601-1; IEC601-1-2
  - CSA601.1
  - FCC part 15