January 2004

Digital High Speed

MEMRECAM

Fibre Channel Connectivity

nac IMAGE TECHNOLOGY

Blank

Fibre Channel connectivity to a single ***MEMRECAM*** fx DRP

Connect as shown in Diagrams 4, 5 and 6 before turning the ***MEMRECAM*** fx power on. For proper operation ensure that the ***MEMRECAM*** fx DRP is configured for Fibre Channel connectivity.

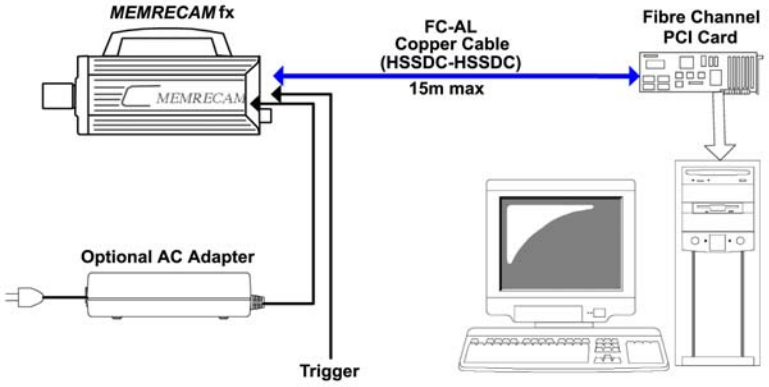


Diagram 4 Direct Fibre Channel Connectivity to a Single ***MEMRECAM*** fx DRP (Copper)

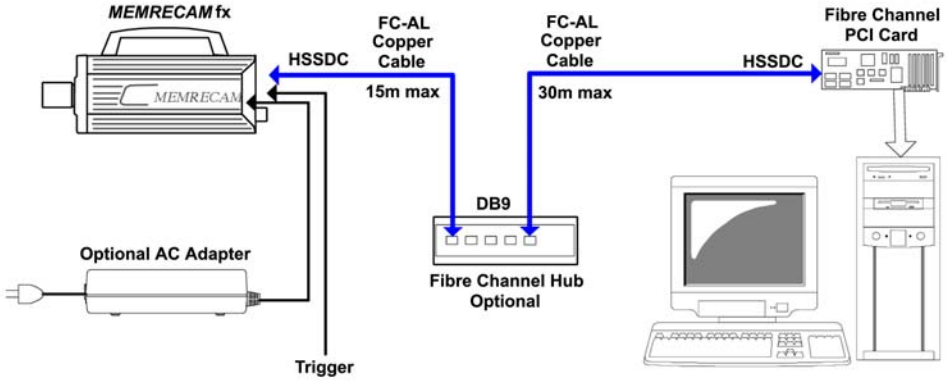


Diagram 5 Fibre Channel Connectivity via optional Fibre Channel Hub to a single ***MEMRECAM*** fx DRP (Copper)

The ***MEMRECAM*** fx supports Fibre Channel connectivity either direct to a control computer or via an optional Fibre Channel Hub. The control computer must have either Smart Capture or fx Link software installed to operate the DRP remotely. For direct connectivity use a FC-AL cable with HSSDC Connectors at both ends. The maximum cable length for a direct copper connection is 15m. When the optional Fibre Channel Hub is used, FC-AL cables with DB9 and HSSDC connectors at opposite ends are required. The combined maximum distance is 45m. While connected to the control computer, the ***MEMRECAM*** fx can also be operated using the Rear Camera Control Touch Pad or the J-PAD 2 remote control panel (not shown).

The optional Media Interface Adapter (MIA) system can be used where distances are greater than 45m (using FC Hub).

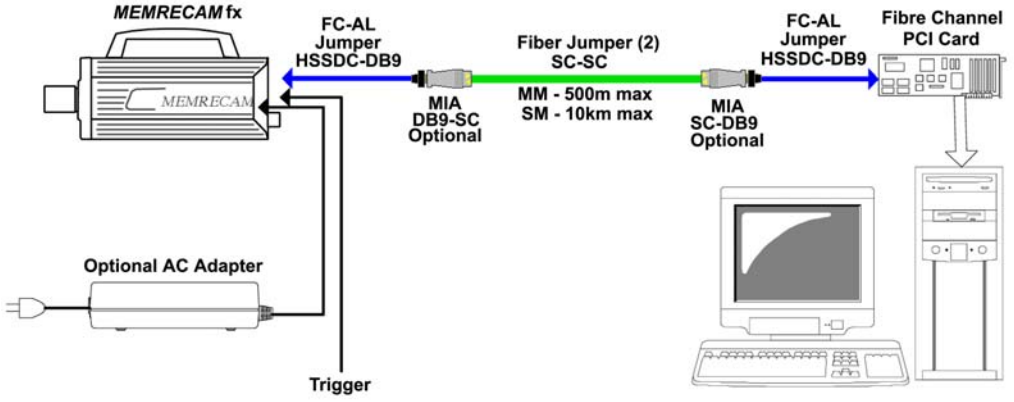


Diagram 6 Direct Fibre Channel Connectivity to a Single ***MEMRECAM*** fx DRP (Fiber Optic)

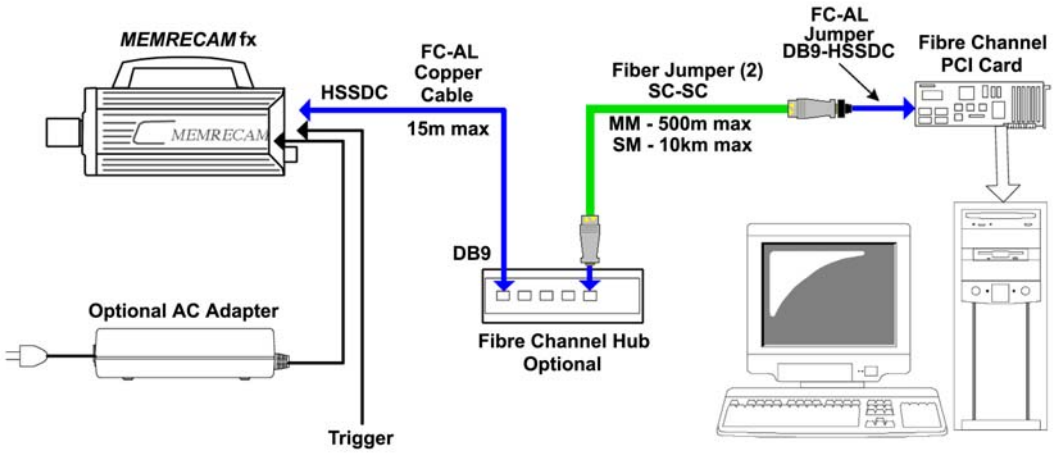


Diagram 7 Fibre Channel Connectivity via optional Fibre Channel Hub to a single ***MEMRECAM*** fx DRP (Fiber Optic)

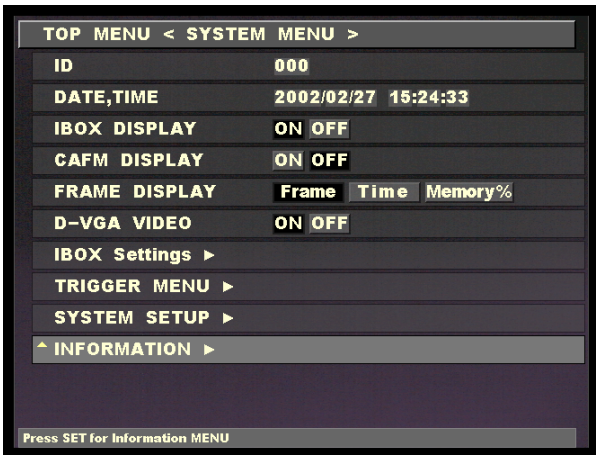
The MIA system can transmit data using either Single Mode (SM) or Multi Mode (MM) fiber with SC connectors. The MIA lasers are fiber type specific. Please specify either SM or MM when ordering. The maximum jumper length using MM fiber is 500m. When using SM fiber the maximum jumper length increases to 10km. The MIA's are connected to the control computer and the FC-AL Hub using short jumpers with HSSDC and DB9 connectors at opposite ends. When the optional Fibre Channel Hub is used, the MIA connects directly to the FC-AL Hub DB9 connector. While connected to the control computer, the ***MEMRECAM*** fx can also be operated using the Rear Camera Control Touch pad or the J-PAD 2 remote control panel (not shown).

- ***MEMRECAM* fx DRP Fibre Channel connectivity setup**

1) Enter the **TOP MENU** by pressing the **MENU** button while in **READY** mode. Use the **UP/DOWN** keys to select the **SYSTEM MENU** row and press the **RIGHT** key.

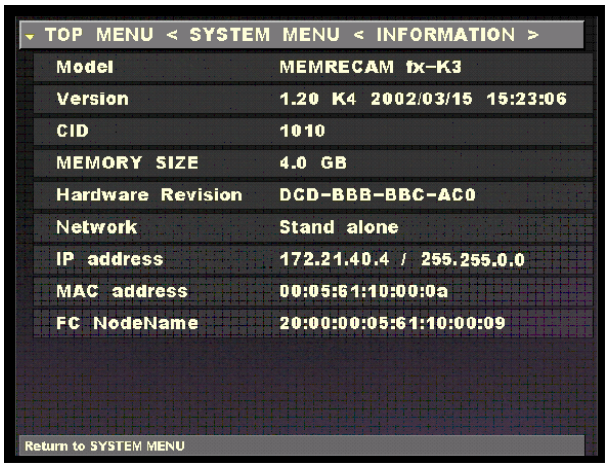
TOP MENU

2) In the **SYSTEM MENU**, use the **UP/DOWN** keys to select the **INFORMATION** row and press the **RIGHT** key to enter the **INFORMATION** sub menu.

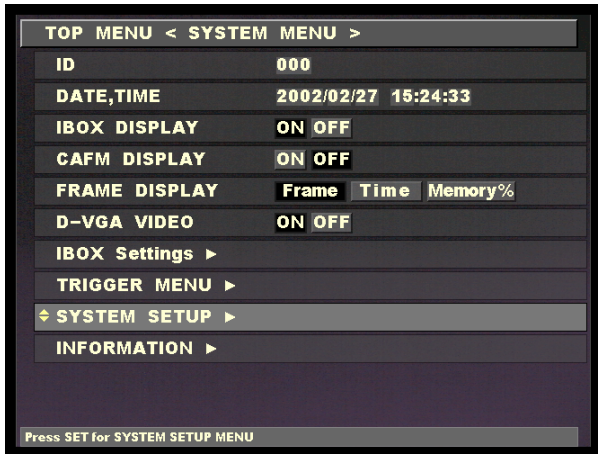


SYSTEM MENU – INFORMATION

3) From the **INFORMATION** sub menu write down the IP address and CID of your particular ***MEMRECAM*** fx DRP. This information is needed to setup the fxLink Camera Inventory in the Control Computer. In this example the ***MEMRECAM*** fx DRP IP address is **172.21.40.4** and the CID is **1010**. Press the **MENU** button to return to the **SYSTEM MENU**.

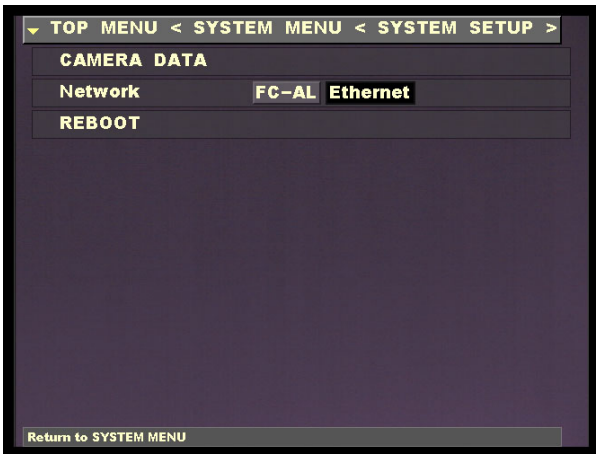


4) In the **SYSTEM MENU**, use the **UP/DOWN** keys to select the **SYSTEM SETUP** row and press the **RIGHT** key to enter the **SYSTEM SETUP** sub menu.



SYSTEM MENU – SYSTEM SETUP

5) In the **SYSTEM SETUP** sub menu, use the **UP/DOWN** keys to select the **Network** row and press the **SET** key to enable editing. Use the **LEFT/RIGHT** keys to select **FC-AL** (a black box highlights the selection). Press the **SET** key to confirm the setting. Use the **UP/DOWN** keys to select the **REBOOT** row and press the **SET** key to reboot and apply changes.



Network Connection Sub Menu

■ PC hardware requirements to operate fx Link software

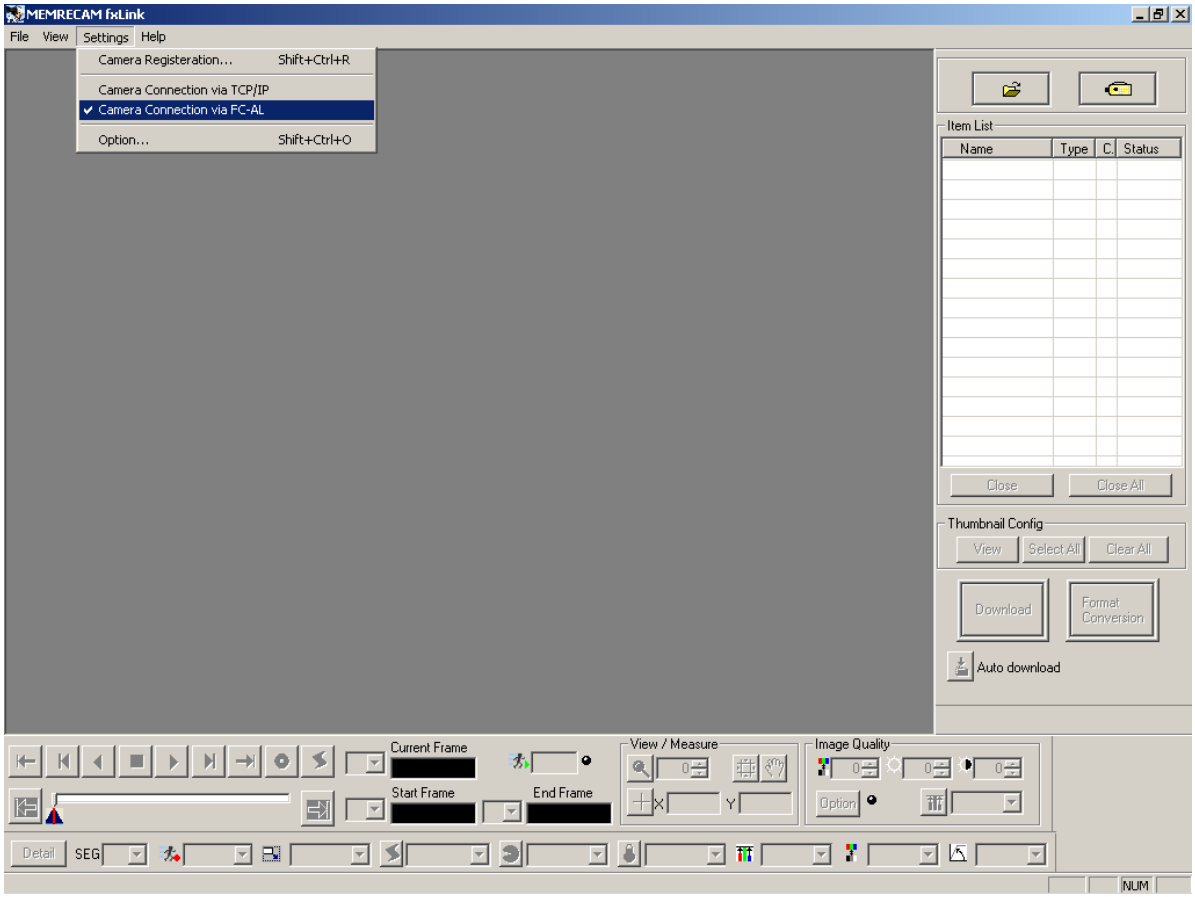
PC	IBM PC compatible (DOS/V), single processor
CPU	Pentium III 750 MHz or higher (with MMX) (Recommended Pentium IV 2.5GHz or higher, compression and display processing speed depends on CPU capability)
Memory	256MB RAM or higher (recommended 512MB or higher)
Graphics	Full color, 1024×768 resolution or higher (recommended 1280×1024 or higher)
OS	Windows NT 4.0 Service Pack 5 or higher, Windows 2000 Professional, Windows XP Professional, Internet Explorer 5.0 Service Pack 2 or higher
Hard Disk	Minimum 42MB of disk space for program, 512MB or higher. Smart Capture requires an NTFS volume for data storage. Depending on the number of cameras, frames saved and number of projects 120GB of disk space or higher is recommended.
Network	Ethernet (IEEE8023u 100BASE-TX)
CD Drive	1 (for installation)

Compression and display processing speeds depend on CPU capability. There should be sufficient free disk space for data. Depending on the PC configuration and hardware version, Smart Capture may not operate well under conditions as listed above. (Consult your retail outlet for recommended PC systems).

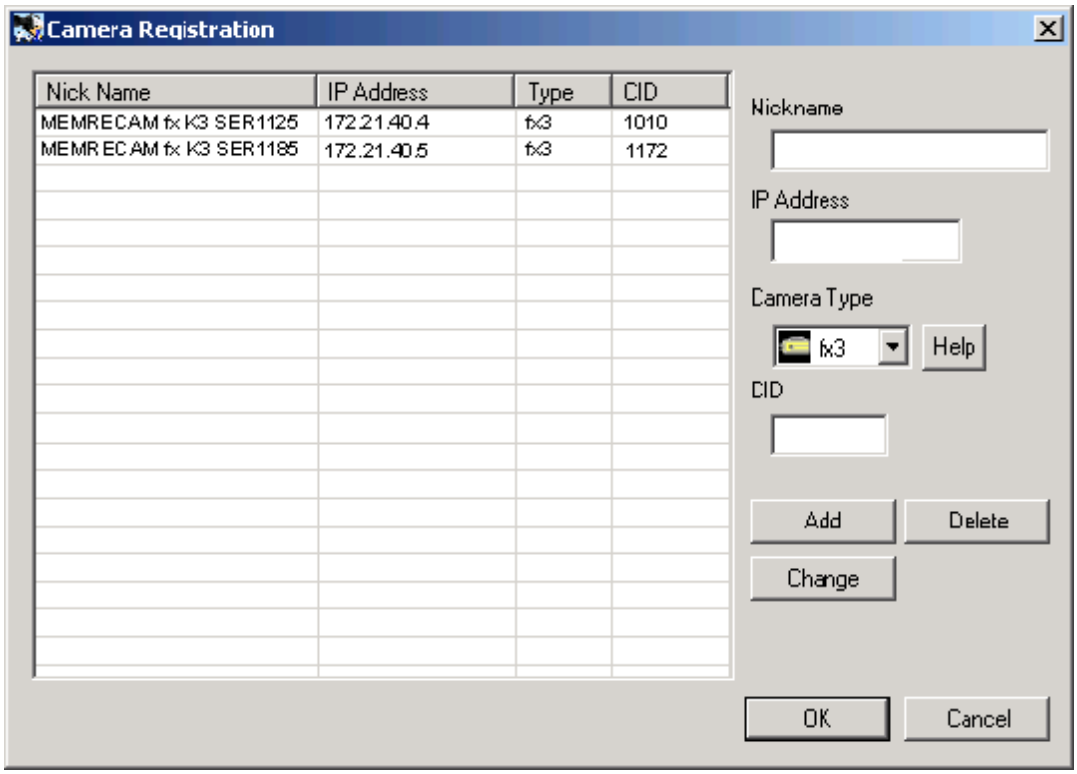
Note: Refer to the fx Link software Operation Manuals for handling and operation of the control computer.

- **fxLink Fibre Channel connectivity setup**
    1) Open the fxLink software by double clicking the “fx Link” icon on your computer desktop.

    2) In the “MEMRECAM fxLink” main window right click the **Settings** menu and select **Camera Connection via FC-AL**.

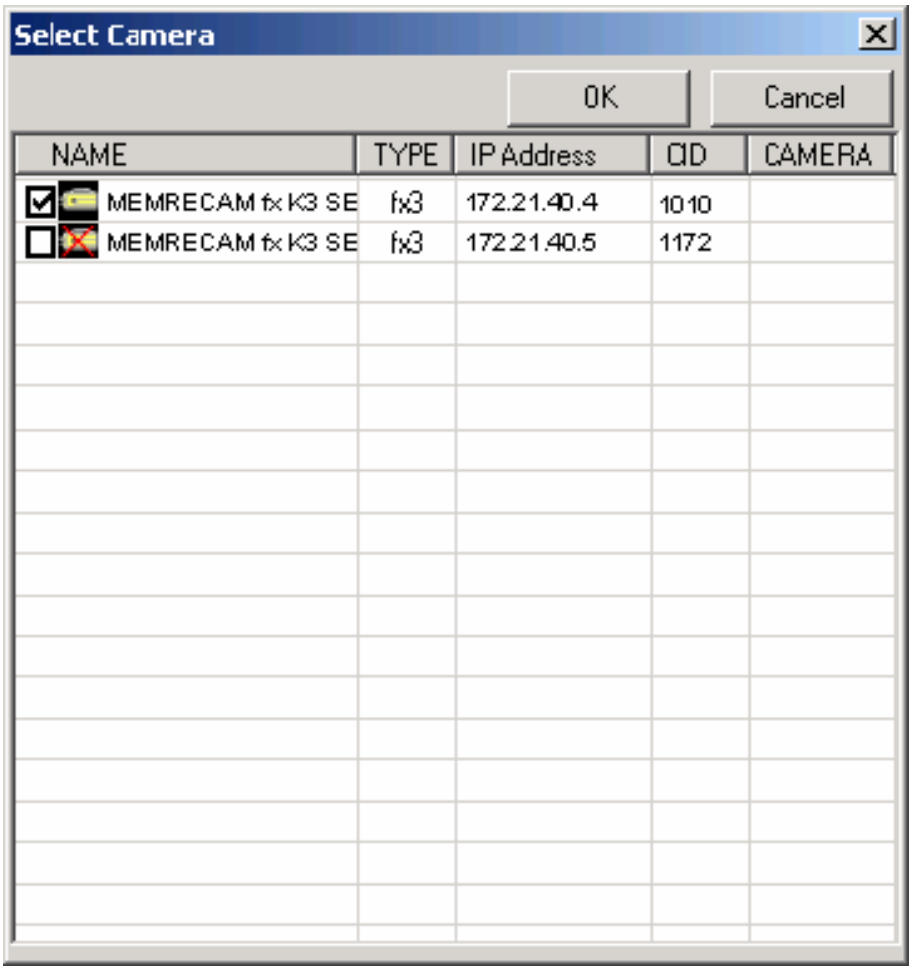


3) In the “MEMRECAM fxLink” main window right click the **Settings** menu and select **Camera Registration**. In the “Camera Registration” window enter a Nickname, IP Address, CID and select the appropriate Camera Type setting for your particular ***MEMRECAM*** fx DRP. Click the **ADD** button and repeat as required to add additional cameras. Click the **OK** button to exit.



4) In the “MEMRECAM fxLink” main window right click the **CAMERA** button to establish a connection with the camera.

5) In the “Select Camera” window click the check box for the desired camera. Click the **OK** button to establish a connection.



NOTE: A small camera icon appears when fxLink successfully recognizes that the camera is online. If the icon reflects a red **X** then fxLink cannot establish a connection. Ensure that the physical connection is good and that the fxLink Camera Inventory is configured correctly.

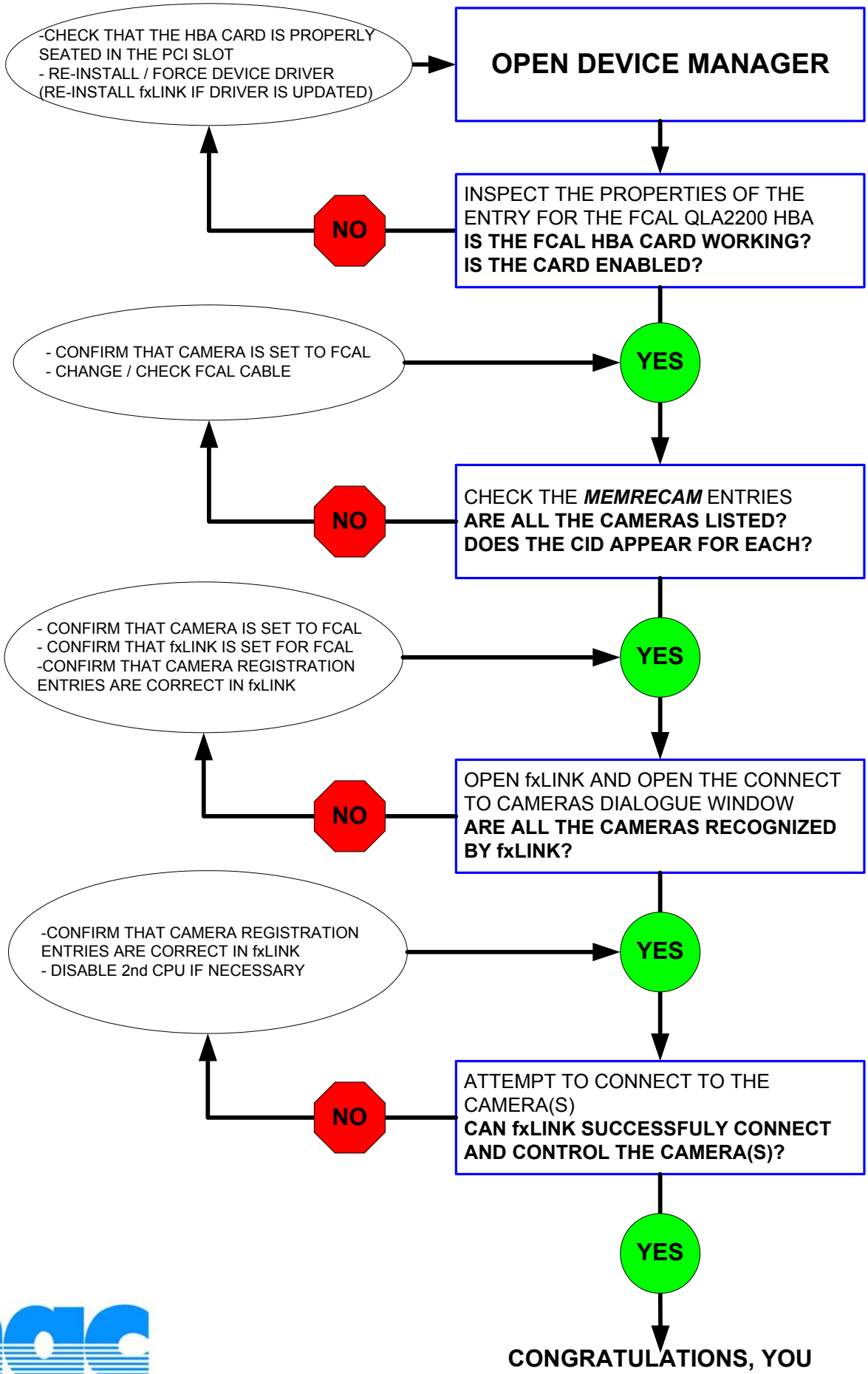


Image Technology

JULY 2005