

Digital High Speed



MEMRECAM

Ethernet Connectivity

Ethernet connectivity to a single **MEMRECAM** fx DRP

Connect as shown in Diagrams 1 and 2 before turning the **MEMRECAM** fx power on. For proper operation ensure that the **MEMRECAM** fx DRP is configured for Ethernet connectivity (shown in the **MEMRECAM** fx **DRP Ethernet connectivity setup** section).

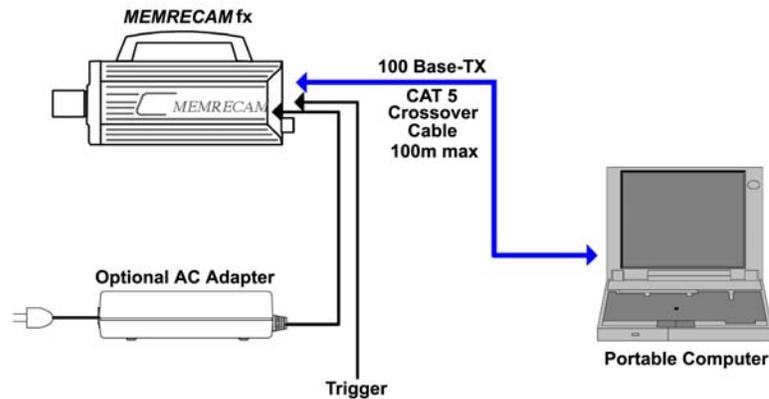


Diagram 1 Direct Ethernet Connectivity to a single **MEMRECAM** fx DRP

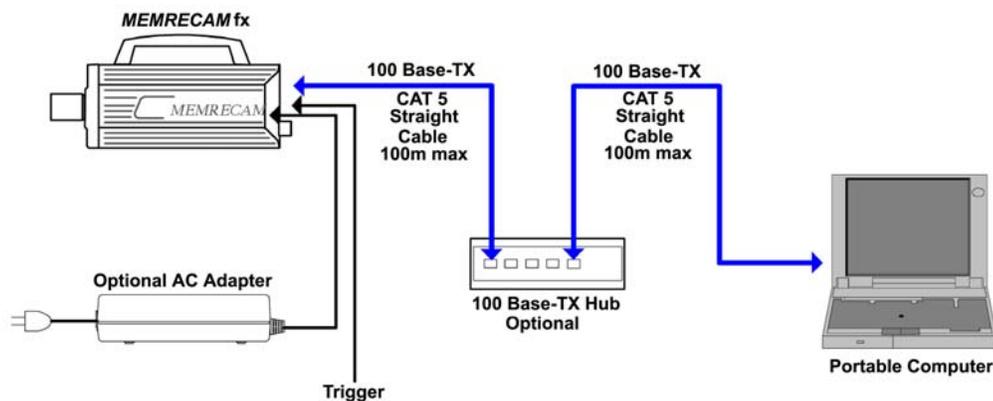


Diagram 2 Ethernet Connectivity via optional Ethernet Hub to a single **MEMRECAM** fx DRP

The **MEMRECAM** fx supports 100 Base-TX connectivity either direct to a control computer or via an optional 100 Base-TX Ethernet Hub. The control computer must have either Smart Capture or fx Link software installed to operate the DRP remotely. For direct connectivity a CAT 5 crossover cable is necessary. When the optional Ethernet Hub is used, straight CAT 5 cables are required. 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 Ethernet 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.



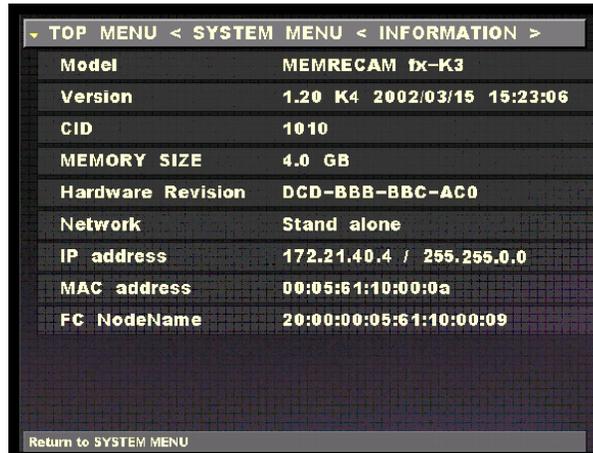
TOP MENU

- 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 subnet mask of your particular **MEMRECAM** fx DRP. This information is needed to set the IP address of the Control Computer. In this example the **MEMRECAM** fx DRP IP address is **172.21.40.4** and the subnet mask is **255.255.0.0** Press the **MENU** button to return to the **SYSTEM MENU**.



The screenshot shows a terminal window with a dark background and light text. At the top, a navigation bar reads 'TOP MENU < SYSTEM MENU < INFORMATION >'. Below this, a list of system parameters is displayed in a table-like format. At the bottom, a prompt says 'Return to SYSTEM MENU'.

Parameter	Value
Model	MEMRECAM fx-K3
Version	1.20 K4 2002/03/15 15:23:06
CID	1010
MEMORY SIZE	4.0 GB
Hardware Revision	DCD-BBB-BBC-AC0
Network	Stand alone
IP address	172.21.40.4 / 255.255.0.0
MAC address	00:05:61:10:00:0a
FC NodeName	20:00:00:05:61:10:00:09

- 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.

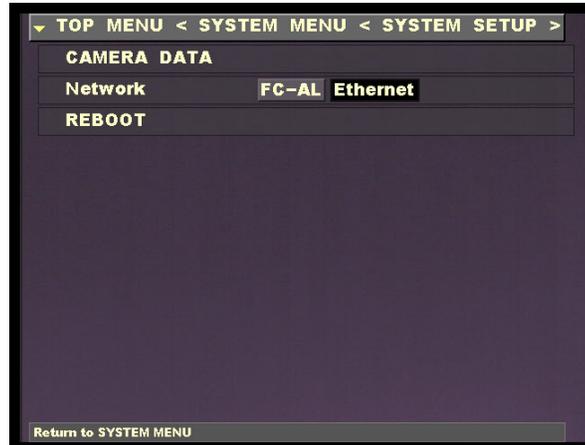


The screenshot shows a terminal window with a dark background and light text. At the top, a navigation bar reads 'TOP MENU < SYSTEM MENU >'. Below this, a list of system settings is displayed. The 'SYSTEM SETUP' option is highlighted with a diamond symbol. At the bottom, a prompt says 'Press SET for SYSTEM SETUP MENU'.

Setting	Value
ID	000
DATE,TIME	2002/02/27 15:24:33
IBOX DISPLAY	ON OFF
CAFM DISPLAY	ON OFF
FRAME DISPLAY	Frame Time Memory%
D-VGA VIDEO	ON OFF
IBOX Settings	>
TRIGGER MENU	>
◆ SYSTEM SETUP	>
INFORMATION	>

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 **Ethernet** (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 Smart Capture/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 Smart Capture/fx Link software Operation Manuals for handling and operation of the control computer.

- **Control Computer Ethernet connectivity setup**

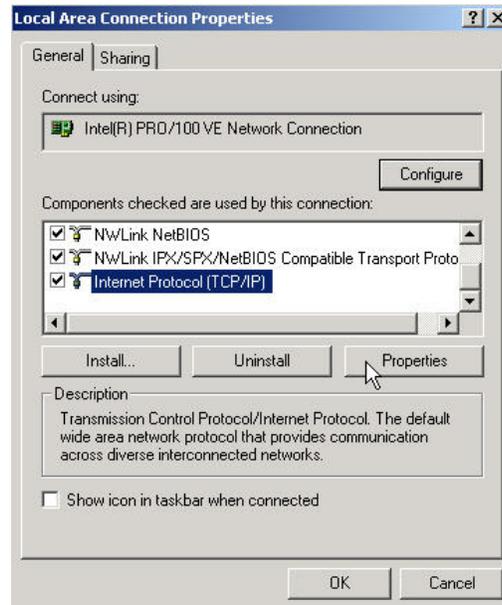
- 1) On your computer desktop right click the icon “My Network Places”. Click on **Properties**.



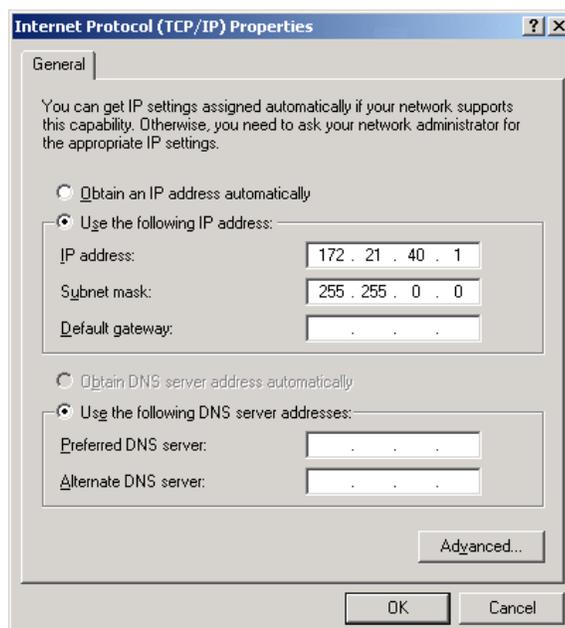
- 2) In the “Network and Dial-up Connections” window right click on **Local Area Connection**. Click on **Properties**.



- 3) In the “Local Area Connection Properties” window **highlight Internet Protocol (TCP/IP)**. Click the [Properties] button.

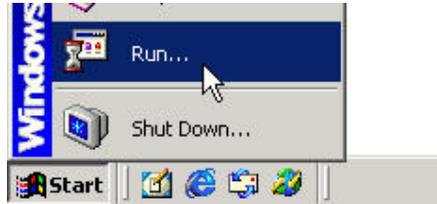


- 4) In the “Internet Protocol (TCP/IP) Properties” window click the **Use the following IP address** radio button. Enter an IP Address using the same Network ID and Subnet Mask as the **MEMRECAM** fx DRP. The host portion must be different than the **MEMRECAM** fx address and could be any number from 1 to 254. In this example we set the computer IP address to **172.21.40.1** (**Network ID 172.21.0.0 & Host ID 0.0.40.1**) and the Subnet Mask was **255.255.0.0**. Click the [OK] button.

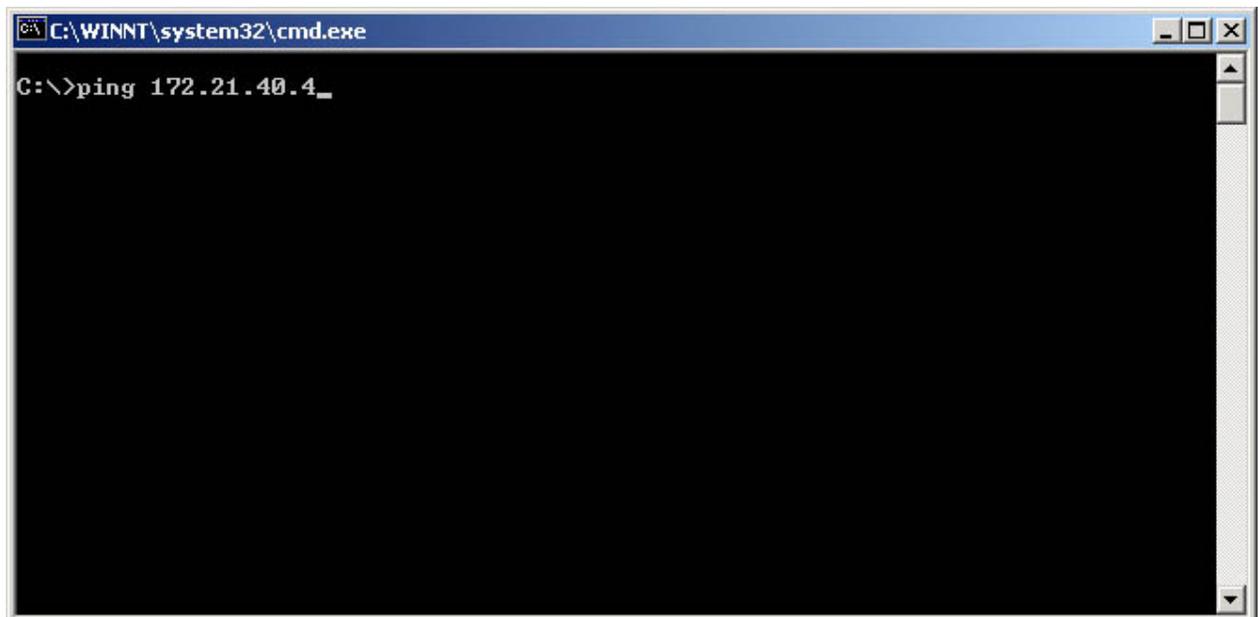


- Ethernet connectivity test

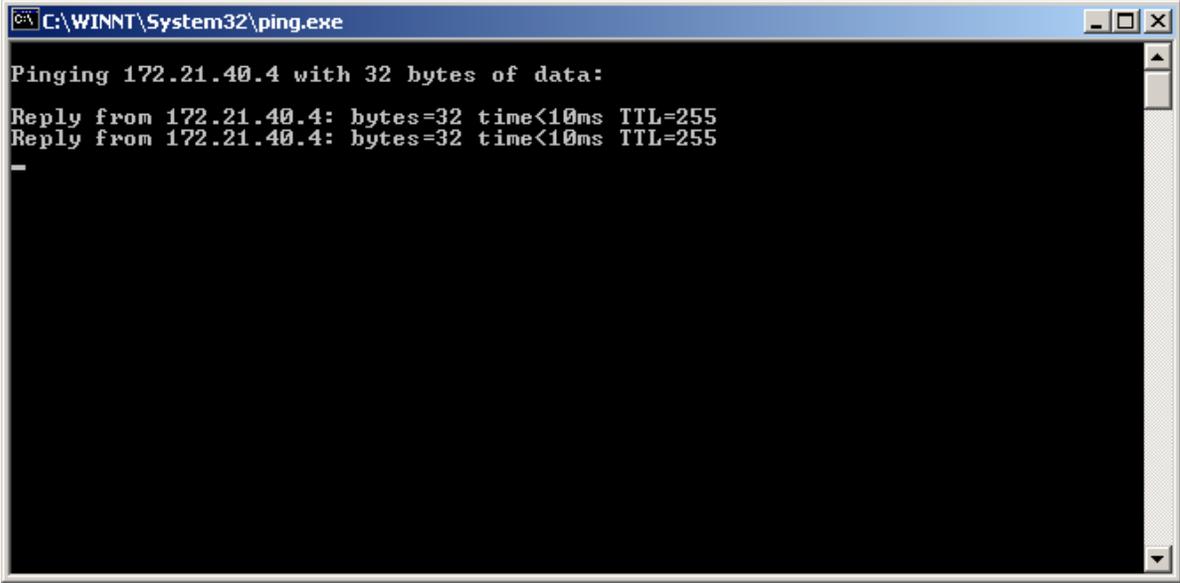
- 1) The Ethernet connectivity test consists of executing the Ping command. From the **Start** menu click **Run...** In the “Run” window type **cmd**.



- 2) To run the PING command type **ping X.X.Y.Y**, where **X.X.** represents the Network ID and **.Y.Y** the Host ID of your particular *MEMRECAM* fx DRP. In this example entered **ping 172.21.40.4** and pressed the [ENTER] key.



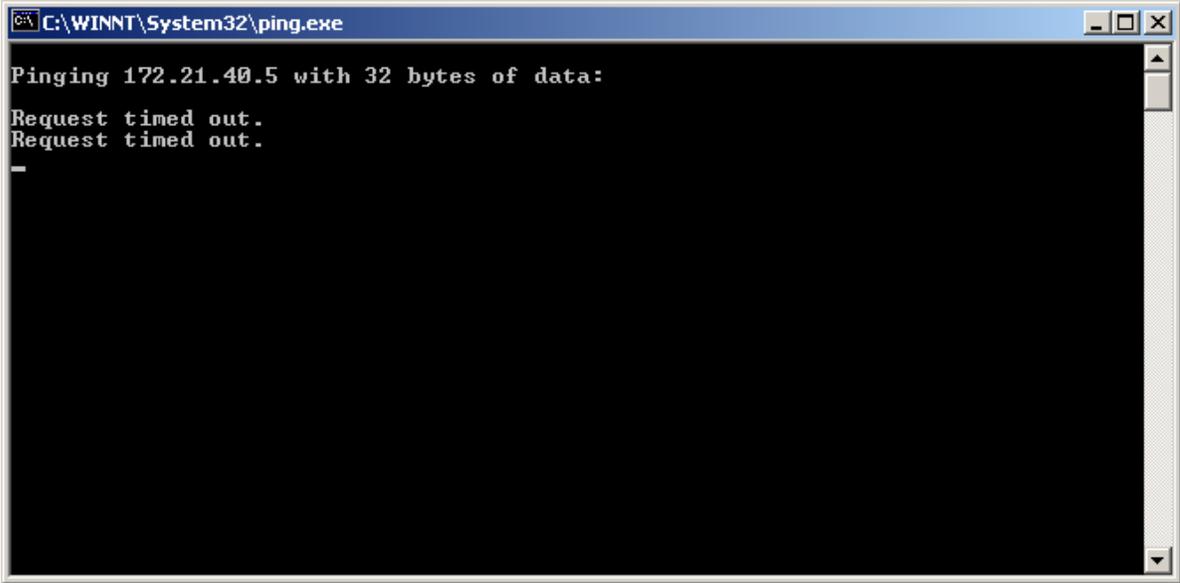
- 3) Ethernet connectivity has been successfully tested when the **MEMRECAM** fx DRP sends a Reply message.



```
C:\WINNT\System32\ping.exe

Pinging 172.21.40.4 with 32 bytes of data:
Reply from 172.21.40.4: bytes=32 time<10ms TTL=255
Reply from 172.21.40.4: bytes=32 time<10ms TTL=255
-
```

- 4) A failure of the test is indicated when the Ping signals time out. In this example the failure occurred because the host address being pinged did not match the **MEMRECAM** fx DRP host address. Note that the ping request was sent to 172.21.40.5. The **MEMRECAM** fx DRP will only respond to ping signal sent to 172.21.40.4



```
C:\WINNT\System32\ping.exe

Pinging 172.21.40.5 with 32 bytes of data:
Request timed out.
Request timed out.
-
```

■ 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)
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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)
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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 Ethernet connectivity setup**

5) Open the fxLink software by double clicking the “fx Link” icon on your computer desktop.



6) In the “MEMRECAM fxLink” main window right click the **Settings** menu and select **Camera Connection via TCP/IP**.

