

EUT:PC CMOS CAMERA

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PURETEK INDUSTRIAL CO., LTD.

User's manual

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Introduction

Thanks for buying this PC Video Conference Kit. The contents of this package should be as follows:

- PC camera
- Video Capture card
- Video Conference Software package & Capture card's driver

The above items will enable you to setup and run a full video conferencing environment. This manual includes information on how to install the PC camera, capture card and the Video Conferencing Software.

Note: You must insert the Capture card & install its driver before the Conference Software is installed

Quick Start

For those wishing to get started right away with the PC Video Conference Kit, the following procedure will get you on-line in minimal time.

Installing the Hardware

- Place the Bt84x capture board in any available PCI slot.
- Connect your video source (PC camera, VCR, V8 ... etc.) to the capture board.
- Connect the audio input/output to your sound card.

Installing the Software

- Microsoft Windows 95 and PC Video Conference software are required to operate the Kit. Refer to the reference manuals if you are

Hardware Installation

First - Install the Video Capture Card

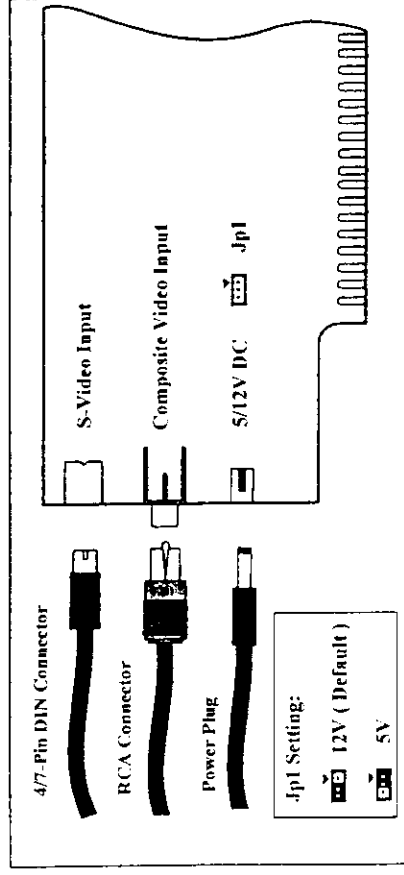
1. Turn off the computer system and unplug the power cord from the wall outlet.
2. Remove or loosen the cover mounting screws on your PC. Carefully slide the cover forward and off.
3. Choose an empty 32-bit PCI slot and remove the cover plate (save the screw).
4. Hold the Bt84x Capture Card by its top corners, and align the connector pins on the bottom with the slot guide. Insert the Capture Card gently but firmly until the card is seated.
5. Secure the board's mounting bracket to the computer using the screw you saved.

Note: follow all suggested safety guidelines in your computer manufacturer's user's manual.

Second – Please install Video source

1. Insert the RCA connector (AV connector) into the 'VIDEO' position of the capture card.
2. Insert the power plug of the Video Camera into the 'POWER' position of the capture card
3. If you're using a device that has a jack for an S-video cable, use that cable instead of the composite video input and plug into the 'S-VIDEO' position of the capture card. Since S-Video has much better resolution than composite, so your video will look clearer

Figure 1. Cable Hookups



Note: Never plug or unplug the power when your PC system is on.

Software Installation

Bt84x Capture Card driver Installation

Power on your system. As Windows 95 starts, it will detect the new device and will present a dialog that asks you to locate proper driver.

When you see the New Hardware found dialog box as your computer restarts:

1. Click the button labeled 'Driver from disk provided by hardware

- To use the conference for point-to-point conversations, all you need besides the Kit is a modem.

Note: To use your conference software to call users with software other than it, you must use a modem that supports and is configured for synchronous communications such as the V.80 standard, or Rockwell's VRPI.

Q: What is full duplex? What is the difference between full and half duplex?

A:

Full duplex is like talking on the telephone today, each side can speak whenever they want and the other side will hear. Half duplex is when only one side at a time can speak and be heard.

Q: How do I adjust the color and brightness settings of my video?

A:

- Select 'Self View' function to see a view of how the other party will see you.
- Pop up 'Video Source Dialog Box' from capture card setup/properties feature. The dialog box will bring you to set following function:
 1. Video format: NTSC, PAL, SECAM.
 2. Video source connector: Video (RCA) or S-Video.
 3. Video color: Brightness, Contrast, Hue, and Saturation.

Note:

- Be sure that capture and playback is in a RGB or YUV format, and supports a size of 160x112 to 352x288 pixels for H.324 compliant

- application.
If capture card allows to choose the YUV 4:2:2 format. This minimizes use of CPU resources and can improve video and audio quality.

Q: I don't see myself in the 'Self View' window. What can I do?

A:

- Check from 'Video Source Dialog Box'
- Check your video source connector. Make sure your Video Source is connected correctly. Normally your 'self view' window will be a 'Blank blue window' if your video source is incorrect.
- Check from 'Video Format Dialog Box'
 1. Set Capture format to 'RGB' format.
 2. Set Image size to 176x144 or 160x120.
 3. Set your computer's display to 256colors (8bit) or higher.

Q: How do I contact another user on Internet?

A:

Just type in the 'E-mail address' of the party you want to reach! E-mail addresses are set as unique and fixed identifiers for making and receiving calls. You don't need to know the IP or 'Internet address' of the other party. If you prefer to call a party directly and you know their IP address, you are welcome to enter it in the Call menu, and the software will connect you. Of course to be connected to your remote party, the remote party must be connected to Internet and have the same software application working.

Note: The party you are trying to reach may not have put their correct e-mail address in when installing the application. In this case, use the Mail invitation option to request their correct E-mail address.

Canadian DOC Notice

NOTICE: The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will work to the user satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company inside wiring associated with a signal line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections to the power utility, telephone lines, and internal metallic water pipe systems, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the load numbers of all the devices does not exceed 100.

Frequently Asked Questions (FAQ)

Q: Hardware/Software Requirements about 'Video Conference'?

A:

System Requirements:

- Pentium 100MHz or faster and configured for Windows 95.
- At least 8 MB RAM & 10 MB free disk space.
- Windows 95 operating system, with Dialup Networking installed.

Video/Audio Requirements:

- Audio: Sound card with supporting drivers, Windows 95 compatible.
- Audio send/receive device: Microphone /Earphones or speakers.
- Full-duplex Audio Capability: (Recommended not necessary).
- Video: 'Video capture card' compatible with Windows 95.
- Video source: Any standard Camcorder, VCR, VTR or Camera compatible with Windows 95 and your capture card.

Note: The conference application can be used for audio only when no video capture card or camera is available.

Connectivity Requirements:

- To use the conference over the Internet, you must first have an Internet connection using either: a modem connection (14.4Kbps or faster) –or– a network connection.

Note: The conference will work over a modem connection of 14.4Kbps, but a 33.6Kbps connection is recommended.

manufacturer' and click OK.

2. Put your CD-ROM into your CD-ROM drive or driver diskette into Driver A: or B:

3. From Disk dialog box, select 'Browse' button and locate the top-level directory of the driver set, which will include some 'INF' files'.

4. Select the driver button corresponding to your drive list.

5. Select the 'Bt84x.inf' file in the file list and click OK twice.

6. In the Select Device dialog box, select the 'Bt84x Video Capture Card' and click OK.

7. After the files are copied, the system will complete the installation and ask to reboot.

8. Once the system is rebooted the Capture card is ready for use.

If you do not see the New Hardware found dialog box and your computer has restarted:

1. Select the 'My Computer' icon from desktop by clicking right mouse button.
2. Select the 'Properties' to pop up System Properties dialog box.
3. In the System Properties dialog box, click the Device Manager tab.
4. Double click "Other devices" to see its contents. Then select 'PCI Multimedia Video Device', and click the Remove button.
5. Click the Refresh button and restart your system.
6. Once restart the system it will detect 'PCI Multimedia Video Device' then please follow above steps to install the Capture card driver.

Install application software.

After you have installed your capture card driver and restarted your computer, you are ready to install application software for Video Capture, Video Edit and Video Conferencing...etc.. If you are new to these applications, please refer to your relative software documentation.

- unfamiliar with these applications.
• Follow all screen prompts during the automatic software installation.

Note: The graphics board used with capture card should include 1MB of linear frame buffer and a hardware cursor. The graphics driver software must be based on Windows95 and must support a Direct Draw.

Installation and Overview

With the Video Conferencing Kit, You are not only able to talk, but you are also able to see the people you want to communicate with. The Video Conferencing Kit offers the most powerful and complete tools available to satisfy all your communicating needs. In addition to the video conferencing function, the Video Capture Card lets you capture, edit, and playback video from a camera, VCR, or other video source.

Package Contents

Please check first to make sure your kit has the required components:

- PC CMOS Camera and Stand.
- Video Capture Card & Driver (The driver is normally Included on the distributed CD).
- Software package.
- User Manual.

System Requirements - (Recommended)

- Pentium -100MHz PC or higher
- 200MB free disk space or more
- 16MB of memory or more
- Microsoft Windows 95 Operation System or NT 4.0
- High-color display card (65,000 colors or more) which supports 'Direct Draw' feature
- Microsoft Windows 95 compatible multimedia sound card
- CD-ROM Drive with 4x speed or higher
- An empty PCI slot for Video Capture card

FEDERAL COMMUNICATIONS COMMISSION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.