

Enhanced CU-SeeMe™

Version 2.1.1 for Windows

Release Notes

Welcome to Enhanced CU-SeeMe from White Pine Software, Inc.

White Pine would like to thank you for using Enhanced CU-SeeMe. Enhanced CU-SeeMe provides point-to-point or group videoconferencing for Windows® and Macintosh® platforms. The following information will help you install and use the software.

Demo Versions of Enhanced CU-SeeMe

If you are using a demo version of Enhanced CU-SeeMe, this software will run for 30 minutes at which time the program will quit. You can restart the program and use it again. See the Enhanced CU-SeeMe Web site at <http://www.cu-seeme.com> to purchase Enhanced CU-SeeMe software.

Purchased Versions of Enhanced CU-SeeMe

If you have purchased a version of Enhanced CU-SeeMe and are a registered user, you are entitled to telephone and e-mail technical support from White Pine.

Windows System Requirements

To Receive:

- 486 DX/66 or higher processor recommended (video receive only, audio send/receive)
- Windows 95, Windows 3.1, Windows NT, or Windows for Workgroups 3.11 running in enhanced mode
- 256-color (8-bit) video card with 640x480 or higher resolution
- Sound card with 8-bit sound, with microphone input (needed for sending) and speaker output
- Minimum 12 MB RAM (16 MB or more recommended).
- An IP network connection
- Windows Sockets compliant TCP/IP or PPP
- Bandwidth of 28.8kb or better

To Send:

- All of the items listed above (needed to receive, plus the items listed

below)

- Video capture board (digitizer) not using overlay technology or hardware compression
- Video camera with standard NTSC output (like a camcorder) and RCA cable (composite video) or S-video if supported by capture board
- Separate microphone or headset for better "phone-like" use (recommended)

Hostname

You may need a hostname for your Windows computer. If you don't already have a hostname for your computer, contact your system administrator. One quick way to provide a hostname is to make an entry into the hosts file (which should be in the directory that contains your Windows Sockets network stack). The hosts file is named simply "Hosts" with no extension (i.e., not hosts.txt). An example of an entry in a hosts file is:

```
<your IP address> <name for your PC>
```

For example, you might decide to use the hostname NetServer. If your IP address is 128.32.64.88, the entry in your hosts file would be:

```
128.32.64.88 NetServer
```

Getting Started

To install Enhanced CU-SeeMe, begin by double-clicking on the .exe file that you downloaded and then click on the Setup button in the dialog box. This will automatically unzip the files into a temporary directory. Follow the instructions on your screen to continue the installation process.

Reflector Sites

You can use Enhanced CU-SeeMe to connect to conferences hosted on Reflector computer sites. Enhanced CU-SeeMe includes a built-in Phone Book listing several Reflector sites for public use. You can connect to a Reflector site directly from the Phone Book, and you can add additional listings to your Phone Book as well.

Enhancements for Version 2.1.1

M-JPEG Codec:

The Motion JPEG (M-JPEG) video codec has been added. M-JPEG offers high quality video over LANS and ISDN (or higher) Internet connections.

To select a video codec, select Preferences from the Edit menu, then click on the

Video tab. You can choose between two color codecs; WhitePine Color and M-JPEG.

If you choose M-JPEG you must also be sure that the Quality setting is between 15% and 20%. Setting the Quality much higher than this will result in slow performance.

The M-JPEG color codec will not accept 8-bit input (sometimes referred to as 8-bit palletized). However, it will work with 16- and 24-bit input (sometimes referred to as high color or true color). If your video capture card is limited to 8-bit input, you should choose the WhitePine Color codec instead of the M-JPEG codec.

If you have any difficulties using M-JPEG, switch to the WhitePine Color codec.

Enhancements for Version 2.1

Improved Internet Audio (handling of packet loss):

If you are using a low-bandwidth audio codec, specifically the Voxware and DigiTalk codecs, you can choose between a Standard audio setting and a High audio setting. The Standard setting allows you to share audio with users of any version of Enhanced CU-SeeMe and the Cornell freeware version of Enhanced CU-SeeMe. The High setting allows you to have maximum performance and efficiency of transmission, however users of Cornell's freeware and Enhanced CU-SeeMe earlier than Version 2.1 will not be able to hear your audio.

Hands Free Audio:

You can transmit audio in your choice of 2 modes:

- Push To Talk mode, where you only transmit audio when a button is pressed.
- Hands Free mode, where you transmit audio continuously.

You can select these modes from The Audio Window. Click on the PTT button to switch between Push To Talk and Hands Free mode.

When you are in Push To Talk mode, the mode indicator button in the Audio Window reads "Push To Talk." In this mode, when you want to talk, you must click and hold on the mode indicator. It then reads "Transmitting." If you are in Hands Free mode, the mode indicator reads "Hands Free." In this mode, you can talk without clicking on any buttons.

Directory services:

A Web-based directory will enable you to easily find other users of Enhanced CU-SeeMe, see if they are online, and make a direct videoconference connection to them. You can also register yourself in this directory so that other users can

locate you.

You can open the Web directory by clicking on the "Directory Services" button in the Phone Book.

Multicast Support:

You can conference with multiple users, without a Reflector, in a multicast conference. A multicast conference can be a Broadcast (one-way conference) or a Group Conference (interactive).

Multicast is a relatively new technology. Many network interface cards, TCP/IP stacks, routers, and Internet Service Providers do NOT yet support multicast conferences. Multicast features may not work for many modem users. Please consult your hardware supplier and Internet Service Provider to find out if they support multicast conferencing.

At this time, only Windows users with Enhanced CU-SeeMe Version 2.1 and higher can create or join a multicast conference. To create or join a multicast conference, you must select the "Enable Multicast" checkbox in the Communications Preferences window.

To create a multicast conference, select "Create Multicast Conference" from the Conference menu. Fill in the information in the dialog box presented. You must fill in the Conference Name, but all other information is optional.

To join a multicast conference, select "Join Multicast Conference" from the Conference menu. Select a conference from the list presented in the dialog box.

Using Enhanced CU-SeeMe with Online Services

You can use Enhanced CU-SeeMe on Windows 95 with Internet connections provided by some online services such as America Online®, Microsoft® Network, and AT&T Worldnet. Using Enhanced CU-SeeMe, you can connect to a videoconference or broadcast on a reflector, and even do point-to-point connections, just as if you were connected to the Internet through an Internet service provider. However, you should note that online services typically assign IP addresses dynamically. This means that you may have a different IP address each time you connect to your online service.

Your IP address appears in the Enhanced CU-SeeMe main application window status bar. To find the IP address of another person using Enhanced CU-SeeMe, click on the right-most button in the button bar of a remote video window. This displays data about that user's connection, including their IP address.

If you want to make a point-to-point connection, you can call another person's IP

address directly. If another user wants to initiate a point-to-point connection with you, that user can connect to your IP address. However, your IP address may be different the next time you connect to your online service. If you plan to make a point-to-point connection with another user of Enhanced CU-SeeMe, you may wish to contact that other person ahead of time via e-mail, and set up a time when you will both connect to the Internet and can determine your IP addresses at that time. Alternately, you can use the Web Directory to locate and call other users. Click on the Directory Services button in the Phone Book to connect the the Web-based directory services.

Note for users of America Online:

Enhanced CU-SeeMe may not work with all America Online accounts, since America Online uses different connection methods depending on your location. To try using Enhanced CU-SeeMe with America Online, you must have the AOL Winsock.dll installed in your Windows directory. AOL Winsock.dll is a Windows add-on program which will allow you to run Internet applications, such as Enhanced CU-SeeMe. Also, note that currently you must install and use the 16-bit version of Enhanced CU-SeeMe if you plan to use it with America Online. Future releases of America Online should support the 32-bit version of Enhanced CU-SeeMe.

If you are using AOL Version 3.0, the Winsock.dll file is already installed in your AOL directory. You will need to copy it to your Windows directory as follows:

1. Find the existing Winsock.dll file in your Windows directory.
2. Rename that file to Winsock.bak.
3. Copy the Winsock.dll file from your AOL directory to your Windows directory.
4. Start AOL and get connected.
5. Start Enhanced CU-SeeMe (16-bit version).

If you are using a version of AOL earlier than Version 3.0, you will need to download Winsock.dll. When you are connected to America Online, enter the Member Services area, and search for WINSOCK to find information explaining what Winsock is and how to download it.

Note for users of Microsoft Network:

To use Enhanced CU-SeeMe with Microsoft Network, follow these steps:

1. Start Microsoft Network.
2. Quit Microsoft Network.
3. When you are presented with options to Stay Connected or Disconnect, choose Stay Connected.
4. Start Enhanced CU-SeeMe.

Problems Fixed Since Version 2.1

- The Directory Services client will no longer display a splash screen every time you start your computer.
- In Version 2.1, if you were connected to a multicast conference, you could only see the Chat text from visible users; that is, users whose video windows were displayed on your screen. In Version 2.1.1, Chat in multicast conferences is now correctly sent on the audio/control multicast address instead of the video address. Therefore you will be able to see Chat text from any user in the multicast conference.
- Copyright information has been updated for Crystal Net Corporation and the color video codec name has been changed back to WhitePine Color.
- Nicknames that appear in the Phone Book for NASA 3 and NT computers have been corrected.
- Conference menus now always appear correctly when connecting to multicast conferences.
- When using multicast conferences, Session Directory Reservation (SDR) session announcements no longer display blank spaces in the Username field.
- In previous versions, under some conditions, remote video window images froze and would not get updated. This has been fixed.

Known Problems in Version 2.1.1

Known problems will be addressed and corrected as soon as possible in future releases of Enhanced CU-SeeMe.

In the list below, a "video codec" refers to a component of Enhanced CU-SeeMe which provides software compression and decompression of video images for transmission across a LAN, WAN, or Internet connection. Version 2.1.1 supports two codecs. One codec produces grayscale images compatible with the current freeware CU-SeeMe applications offered by Cornell University and the Enhanced CU-SeeMe application from White Pine Software. The other codec produces color or grayscale images and can only be viewed by other users of Enhanced CU-SeeMe from White Pine Software. Group (reflector-based) conferencing with the latter requires the use of a White Pine Reflector, or a recent version of the Cornell freeware reflector, for all parties to be visible to each other. See the Video section below for more details.

General:

- When connected to a reflector via a modem, be sure to set the receive rate in the Conference preference tab to the speed of your modem.
- The installer may indicate that it cannot find one or more installed dynamic link libraries (dlls). If this occurs, continue the installation
- The transmit/receive data displayed by clicking the button at the bottom of a video window may not always be accurate. The "Send" data is displayed as double dashes ("--") for group (reflector-based) conferences.
- If you unsuccessfully try to connect to a reflector repeatedly, you may need to click the disconnect button or wait a few minutes before establishing the next connection.
- The Participant Window icon is incorrectly sized, and may appear very large when it is moved.
- The Listener may incorrectly indicate that it has received calls from conference participants.
- The Listener may appear to receive multiple calls from senders using Version 2.0 of Enhanced CU-SeeMe when only one call was placed by the sender.
- When remote video windows are set to open automatically, sometimes fewer windows will be opened than the maximum specified in the Conferencing preferences. If this occurs, select "Show All" under the Window menu to show the maximum number of windows, or select additional windows to show by clicking on Hidden windows in the Participant Window.
- If you are using the standalone Listener, accept a connection, and eventually exit Enhanced CU-SeeMe, subsequent invocations of Enhanced CU-SeeMe may automatically attempt to connect to the previous conference target.

Network:

- If using a 16-bit stack under Windows 95, the 16-bit version of the executable must be used.
- Enhanced CU-SeeMe may not work well with version 2.1 of the Trumpet PPP stack.
- On certain stacks, Connect To Self will not work. To use self-connect to test video, use the Address dialog to specify your own IP address or hostname.
- To use multicast, you need a TCP/IP stack that supports multicast.

- If you want to use multicast settings other than the default settings, make sure that your network interface card supports at least 10 simultaneous multicast addresses. When using nondefault settings, some TCP/IP stacks may not return the proper network resources; therefore, you may need to reboot before participating in another multicast conference.

Multicast:

- If you do not use the default settings for multicast addresses and ports, you must be careful to choose appropriate addresses. Multicast addresses are restricted to 224.0.0.0 to 239.255.255.255. If you enter addresses outside of that range, the results are unpredictable.
- Port numbers must be in the range of 0 to 65535.
- Conference IDs must be in the range of 0 to 65519.
- The Create Conference Password field is disabled. This is reserved for a future release.
- Enhanced CU-SeeMe Version 2.1.1 multicast conferences are incompatible with Version 2.1.1 client software. Therefore, if you create a multicast conference with Version 2.1 client software, users of Version 2.1.1 will not be able to join your conference. Likewise, if you create a multicast conference with Version 2.1.1 client software, users of Version 2.1 will not be able to join your conference.

Audio:

- To use the Voxware or Rockwell™ audio codecs, the quality of your Windows Audio Playback may need to be set to CD Quality, not to Radio Quality.
- The 16-bit version of Enhanced CU-SeeMe can not send Voxware 2.4K audio, although it can receive and decode it.
- Computers with 486 class processors may have difficulty encoding and/or decoding Voxware and Rockwell audio streams in real time.
- You may experience audio problems using the Roland® Rap10 audio card with Enhanced CU-SeeMe.
- You can transmit audio in your choice of two modes: Push To Talk mode and Hands Free mode. Choose between these modes using the Audio Window. In Push To Talk mode, you only transmit audio when the Push To Talk button is pressed. In Hands Free mode, you transmit sound continuously. Click the PTT button to switch between Push To Talk mode and Hands Free mode.

Video:

- If you switch video codecs from White Pine Color to CU-SeeMe Gray when using the Connectix Color QuickCam, Enhanced CU-SeeMe will display video windows with no images, or it may crash. Connectix will be releasing an update to the Color QuickCam that will allow users to produce grayscale images compatible with the CU-SeeMe Gray video codec. For the latest Color QuickCam driver releases, visit the Connectix web site at:

www.connectix.com

- If you use the Connectix Color QuickCam, do not use the Thousands (VIDEC) setting. It may cause Enhanced CU-SeeMe to crash.

- If you are using the Connectix Color QuickCam with Windows for Workgroups or Windows 3.11, and your monitor is set to 65K colors and you capture in Thousands (uncompressed), your local video window may appear white.

- If you are using more than one capture device with the Connectix Color QuickCam and are switching from a capture device which is set to 24-bit capture to the QuickCam, Enhanced CU-SeeMe may crash. Contact Connectix to make sure you have the latest drivers.

- When using the Connectix Color QuickCam in a 32-bit environment while utilizing the 16-bit build of Enhanced CU-SeeMe, you may crash.

- When using the Connectix Color QuickCam and the Color setting is set to Millions and the sharpness setting is set too high, there will be performance problems with your system. White Pine recommends that your color setting be set to Thousands (uncompressed) and your sharpness setting be set to medium for better results.

- If you are using the Motion JPEG (M-JPEG) video codec, your program may crash when you are connecting or disconnecting from a Reflector.

- The M-JPEG color codec will not accept 8-bit input (sometimes referred to as 8-bit palletized). However, it will work with 16- and 24-bit input (sometimes referred to as high color or true color). If your video capture card is limited to 8-bit input, you should choose the WhitePine Color codec instead of the M-JPEG codec.

- Color video displayed in the local video window may not exactly match the image sent to other conference participants. Use Connect To Self to preview how your video will appear to other participants, and to see the effects of any configuration changes you make to the White Pine Color codec.

- Windows 3.x computers may display local color video very slowly. If this

occurs, configure your (digitizer) capture depth using the Format or Source button in the Video Preferences so that the capture depth matches your graphics card and display settings. If your display is set to 256 colors, for example, configure your digitizer to capture 8-bit images (256 colors).

- Enhanced CU-SeeMe supports (digitizer) capture formats of 8-, 16-, or 24-bit RGB, as well as Intel (YVU9) in color mode. In grayscale mode, it does not support 16-, or 24-bit capture formats, nor does it support Intel (YVU9). If your video capture card does not work well with Enhanced CU-SeeMe, use the Format, Source, or Display buttons in the Video Preference tab to check and adjust the (digitizer) capture format.

- With some video drivers (such as the Winnov Videum(TM) driver), if you are using Windows 3.1 and your monitor is set to 65K colors and you capture in RGBH (16-bit), then the local video window may display an interference pattern of vertical lines. This pattern may also appear in remote color video windows. If you capture in RGBT, then your local video window may appear correct, but remote color video windows may still have interference patterns.

- To use reflector-based color conferencing, the White Pine Reflector or a recent version of the Cornell freeware reflector is required. Color video can only be sent and received by users of Enhanced CU-SeeMe from White Pine, and cannot be decoded by users of the freeware version of CU-SeeMe from Cornell. If video windows appear as solid gray or blue and video is never updated, you are most likely connected to an older reflector which is not color-capable.

- Video capture cards which capture in "overlay" mode only are not currently supported.

- Some versions of drivers for the Creative Labs Video Blaster™ SE100 video capture card may not work reliably with 8-bit, 256 color displays. If you experience system crashes while using the Creative Labs SE100 video capture card with the 32-bit version of Enhanced CU-SeeMe, try the following modifications: First, change the display settings. If you still experience problems, then change the capture depth.

- Version 1.0 of the Logitech® Movie Man video card or driver may not work with Enhanced CU-SeeMe. Version 1.1 does work. Logitech no longer supports this product.

- Some versions of the Intel Smart DTR may not operate correctly with Enhanced CU-SeeMe.

- When using the Logitech Movie Man or Winnov Videum™ capture cards, it is recommended that the capture format be set to 24-bit True Color. Use the Format dialog from the Video Preference tab to change the capture format. Selecting a

16-bit capture format may cause flashing in the local video window, but will appear undistorted to remote receivers. Selecting 8-bit capture may result in distorted colors.

- If video codec files are not properly installed in your Windows system folder by the installer, or if these files are removed from the system folder, Enhanced CU-SeeMe cannot send or receive video. If you suspect these files were removed, reinstall Enhanced CU-SeeMe. The 32-bit codecs are named wpsg32.dll and sfmc32.dll. The 16-bit codecs are named wpsgicm.dll and sfmicm.dll.

- If both the 16-bit version and the 32-bit version of Enhanced CU-SeeMe are installed on the same computer running Windows 95, you must install these two versions in separate directories. Also, caution must be taken so that the 16-bit version and the 32-bit version do not use each other's video codecs. This problem can be avoided as follows:

*When running the 32-bit version, comment out the VIDC.SFMC and VIDC.WPSG entries in the [drivers] section of your system.ini file by placing a semicolon (;) at the start of each entry if similar entries appear in the [drivers32] section of system.ini.

*When running the 16-bit version, comment out the VIDC.SFMC and VIDC.WPSG entries in the [drivers32] section if similar entries appear in the [drivers] section.

*If switching between the 16- and 32-bit versions, you may need to remove the sfmc.cfg files from your install directory if you encounter problems with your video codec.

- Certain revisions of the Digital Vision RT card will flicker with Enhanced CU-SeeMe. The vendor recommends use of the Digital Vision 1024 card instead.

- The Matrox® Millenium MGA video card may not work properly with Enhanced CU-SeeMe. If you have this video card installed in your computer, try changing your capture format or your system display depth.

- Display of video windows on systems set to display only 16 colors (4 bits) may be distorted.

- Using the 16-bit version of Enhanced CU-SeeMe on 8-bit (256 color) displays, remote video windows for senders using the White Pine Color codec in grayscale

mode may appear distorted. One or more shades of gray may be displayed incorrectly, or in color. This can be fixed by changing the display depth, if possible.

- The display depth should be set to 256 colors (8-bits) on systems with limited memory.

- When using a black and white QuickCam camera from Connectix, use the CU-SeeMe Gray codec. The black and white QuickCam camera will not work with the WhitePine Color codec. The Enhanced CU-SeeMe installer will automatically configure this correctly.

- The Video Preference tab options to invert the gray table and to invert the image have no effect when using a Connectix QuickCam, or when using the White Pine Color codec. In addition, if you select the invert gray table check box, you must exit the program and restart it to have this change take affect.

- For point-to-point conferences using the White Pine Color codec, White Pine recommends setting the smeared 'I' frame rate to zero using the codec configuration option in the Video Preference tab. This will result in less bandwidth being used to transmit color images. White Pine does not recommend this setting for reflector-based conferencing, as it will result in a long delay for images to appear on remote systems.

- When making changes in the Video Preference dialog box, be aware of the following configuration issue: If you select the lossless options, increase the smeared 'I' frame rate, or lower the ME Search Radius, then you increase the amount of data you are sending. Sending more data requires additional bandwidth. If bandwidth is not available, then the result is that the frame/second rate decreases.

- If you use generic VGA and/or Super VGA drivers instead of drivers designed specifically for your display adapter you may see poor performance.

- If you have more than one Video capture card installed, some vendors drivers add entries to the registry which seem to confuse Video for Windows when CU-SeeMe and/or the Enhanced CU-SeeMe installer attempt to enumerate the available video capture devices. Searching the registry for the installed video capture drivers and deleting the entries under the keys for MSVIDEO and MSVIDEOOn will fix this problem.

- When switching video codecs from CU-SeeMe gray to White Pine Color the format the video capture depth is set to match your display depth. This may capture lower quality video than you intended. Set capture depth higher if you want to send higher quality color video.

- Notes for Winnov video capture cards:

* If you are using CU-SeeMe Gray and you use the Format settings for the capture card, the local video window will display in color. Enhanced CU-SeeMe will still capture to send gray until you change the video compression codec to White Pine Color.

* If there is a video capture setting for rgb8 capture, it may not work. Please use another format.

WhitePineBoard:

- Enhanced CU-SeeMe Version 2.1 will not allow you to share the WhitePineBoard application with users of Enhanced CU-SeeMe earlier than Version 2.0.

- The location of the WhitePineBoard and the cuseeme.ini entry used to specify this location have changed from Version 2.0. If you had previously customized the WhitePineBoard location by changing its cuseeme.ini value, you must reapply your change to the 2.1 cuseeme.ini file.

- On heavily loaded Reflectors, the WhitePineBoard may not transmit or receive data, or it may disconnect you from an active whiteboard conference. If you experience connection or disconnection problems, exit the WhitePineBoard and restart it.

- WhitePineBoard sessions with several users may experience connection problems or dropout.

- WhitePineBoard will function best when used in a point-to-point connection over a LAN. When connected to a reflector, the response time will be slower.

- 486/33 systems or systems with limited memory may experience connection or timeout problems with the WhitePineBoard.

- Sometimes the "Exit" choice under the "File" menu must be selected twice to take effect.

Web and File Launch Facility Information

Below is an example of the configuration options available in a launch file or script file. This example is what you would want to bring up Enhanced CU-SeeMe and connect you to the client or reflector with just the main toolbar window and WhitePineBoard connected. Launching capabilities for Microsoft® Explorer have been added.

----- Beginning of file -----

Ip address
Conference ID

Audio Window Open automatically: yes or no
WhitePine board Open (launched) automatically: yes or no
Max and Min Video Send rate control
Local Video window Open automatically: yes or no
Participants Window Open automatically: yes or no
Chat (Text) Window Open automatically: yes or no
PhoneBook Window Open automatically: yes or no
Settings for Automatically opening remote videos on connect: yes or no
Connect Options for automatically sending receiving Audio and video

[Audio Position]
Open=no

[WhitePINEBoard]
Open=yes

[Flow Control]
MaxCap=29
MinCap=9

[Local Position]
Open=no

[Participants Position]
Open=no

[Chat Position]
Open=no

[PhoneBook Position]
Open=no

[Settings]
AutoOpen=no

[Connect Options]
IWillSendVideo=no
IWillRecvVideo=no
IWillSendAudio=no
IWillRecvAudio=no

----- End of file -----

PPP Stack

White Pine provides Core PPP for use with Enhanced CU-SeeMe.

Master Licensee for Enhanced CU-SeeMe

White Pine Software has been selected by Cornell Research Foundation as master licensee of Cornell's CU-SeeMe® desktop videoconferencing technology. Under this exclusive agreement, White Pine and Cornell researchers will make low-cost, commercially enhanced and supported versions of CU-SeeMe available to Internet users worldwide -- bringing the advent of everyday video communications one step closer. Royalties generated from the direct sale, distribution, and sublicense of commercially enhanced versions of CU-SeeMe will help ensure the continued advancement of this exciting new technology.

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Technical Support

To request technical support, complete the Technical Support Request form on the World Wide Web at <http://www.cu-seeme.com>. You can also send e-mail to support@cu-seeme.com (in the Americas), or euro_support@wpine.com (in Europe, Africa, or the Middle East).

Enhanced CU-SeeMe Mailing List

If you are interested in product upgrades, special offers, or following developments in Enhanced CU-SeeMe or its use, you will want your name on our mailing list. You should send blank e-mail to: cuseeme@wpine.com. You will receive an electronic registration form for our broadcast list server, which will add your name to our mailing list.

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The audio portion of CU-SeeMe was provided by Charley Kline's Maven.

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