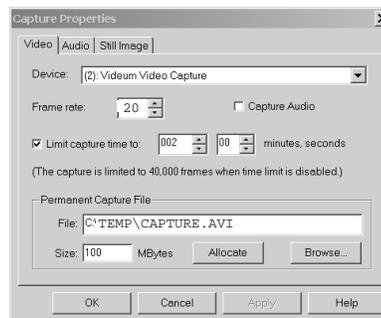
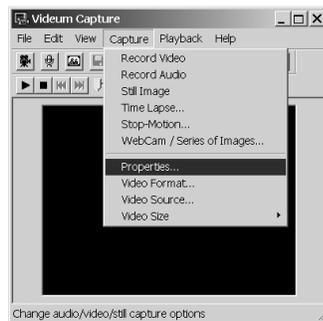


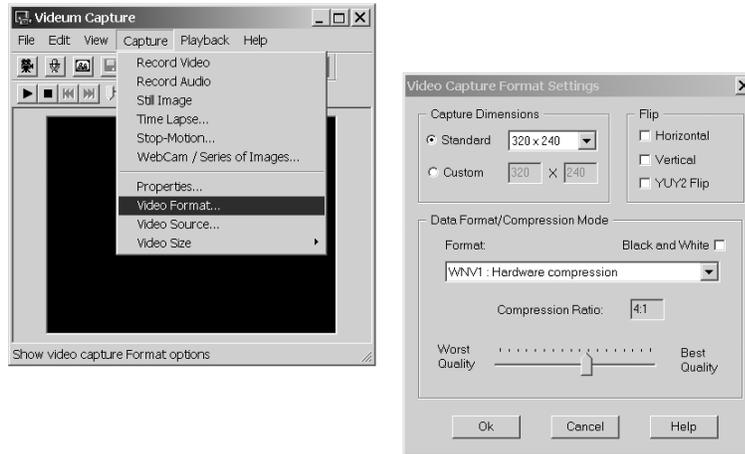
Camera Set Up

1. Load the Video Capture Program. (Click *Start* → *Programs* → *Winnov Videum NT* → *Videum Capture*.)
2. Under the *Capture* menu change the following properties:
 - Frame rate to 20.'
 - File to C:\Temp\capture.avi'
 - Turn off Capture Audio.'
 - Limit Capture to 2 minutes.'



Courtesy of Winnov. Used with permission.

3. In the video capture menu change the compression to *WNV1:Hardware compression* and match the Quality setting to that in the figure. Note: This must be done before you record a video. If you record a video you will need to close the Video Capture Program and start at step 1.

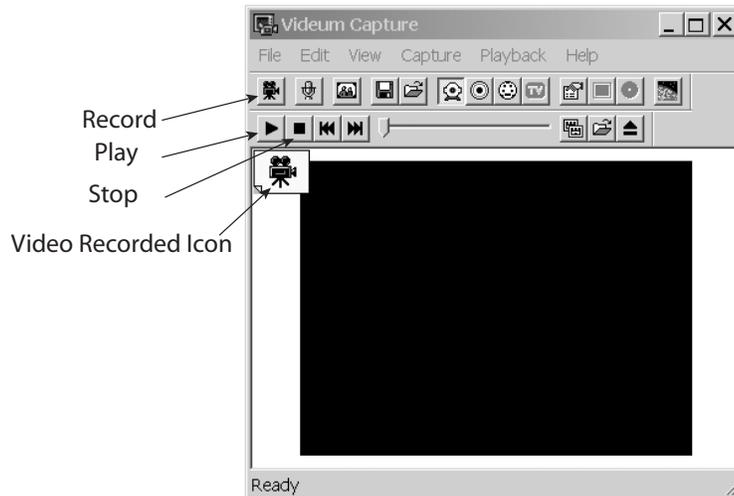


Courtesy of Winnov. Used with permission.

4. On the *View* file menu click on *Preview* and then *Slow Speed*

The camera is now ready to reliably record. You may want to adjust the frame rate, compression ratio, and capture resolution to suit your needs but these values will work without *Frame Loss*. *Frame Loss* will be discussed later.

Useful Commands



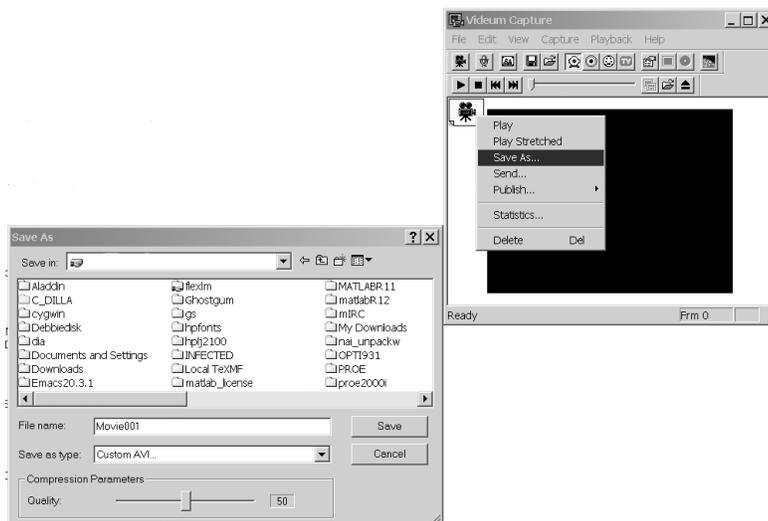
Courtesy of Winnov. Used with permission.

- *Record*: To start recording, click on the video camera icon in the top left-hand corner of the window. (It is directly below the *File* menu.)

Note: the camera image will not update in the window instantaneously, but this does not mean it is not recording.

- *Stop Recording:* To stop recording click the icon displaying a square black box, it is located a little below and to the right of the record icon.
- *Checking for lost frames:* After the *Stop Recording* button is pressed a yellow icon displaying a camera will appear in the upper left-hand corner of the camera image area, it is labelled “Video Recorded Icon.” Right click on this icon and select *Statistics...* from the pop-up menu. Make sure that you have 0 frames dropped. If you have dropped frames experiment with decreasing the camera resolution or frame rate to ensure that the system does not drop frames. Click on the *OK* button to close the *Statistics...* dialog box.
- *Viewing the video frame by frame:* Take a preview of the video by pressing the play icon, it has an arrow pointing to the right displayed on it and is located directly below the record icon. To collect the data from each frame use the left arrow and right arrow keys to decrement and increment frames respectively.

Saving the video



Courtesy of Winnov. Used with permission.

To save the video right-click on the yellow camera icon located in the top left-hand corner of the camera image window and click on *Save As*. A *Save As* dialog window will pop up as shown above.

1. Save the file to your Zip disk by selecting your Zip disk from the *Save in* selection box at the top of the dialog box.
2. Name the file as you desire and select *Custom AVI...* under the *Save as type* selection box.
3. Click on *Save* in the *Save As...* dialog box.
4. A *Compressions Option* dialog box will pop up. Click on *Options*. A *Video Compression* dialog box should pop up. Click on the *Configure...* button and reduce the *Data Rate* to roughly 1000 kilobytes per second by moving the slider to the left. Click on the *OK* button. Now click the *Video Compression* window's *OK* button. Last Click *OK* in the *Compressions Option* dialog box. The file should be compressed and saved to your Zip disk for later viewing.

To use the Video Capture program to view your video, use the *Open* command in the *File* menu. Windows Media Player (the default program for this file type in Windows NT) will play this video but will not allow you to move the image frame by frame.