Belkin Components

BELKIN®

USB VideoBus™ II Instruction Manual for Macintosh®

F5U208-MAC

Features:

- Make your own movies.
- Includes award-winning video and photo-editing software from Strata™.
- Capture audio and video in a fast and convenient way.
- Connect your camcorder, VCR, digital camera, or any standard video device directly to your MAC, and save the playback in still-image format or full-motion video.
- E-mail pictures or video clips to friends and relatives or business associates.
- Video-conference around the world using your camcorder.
- Easy to use Plug-and-Play operation.
- Easy to install USB device doesn't require opening your computer.

Specifications:

- Full-motion video—30 fps at CIF resolution video capture via USB.
- Motion video up to 15 fps at VGA resolution (progressive video source) video capture via USB.
- VGA (640X480) resolution still image capture.
- Audio input up to stereo 16KHz/16 Bit—Audio capture via USB.
- Data input transfer up to 2Mbit/s via the bulk input pipe on USB.
- Software-controlled digital PAN and ZOOM.
- Any standard NTSC/PAL/SECAM video source is supported.
- Easy Plug-and-Play operation.
- Compatible with popular video applications.
- Compatible with Mac OS 8.6 or higher.

System Requirements:
Minimum Recommended System:
- Mac® or iMac™ Computer with USB Capabilities
- Mac OS 8.6 or Higher

Package Contents:
- Belkin USB VideoBus™ II for Macintosh®
- Installation CD Including Stata™ VideoShop 4.5
- Instruction Manual

Please read this manual thoroughly before starting the installation of the VideoBus II.

1. Insert the USB VideoBus II software installation CD into your CD-ROM drive. When the CD icon appears on your desktop named "Belkin F5U208-Mac", double-click on the icon.

2. A screen will appear with the contents of the disk listed. Double-click on the icon named "UVP 2.26 INST (BELKIN).1".

3. A screen will appear. Click "Install".

4. A message will appear warning you to restart your computer after installation. Click "Continue".

5. After the installation is complete, click "Restart".

6. After the computer has restarted, the installation is complete. Follow the directions on VideoBus II Connection in the next section.

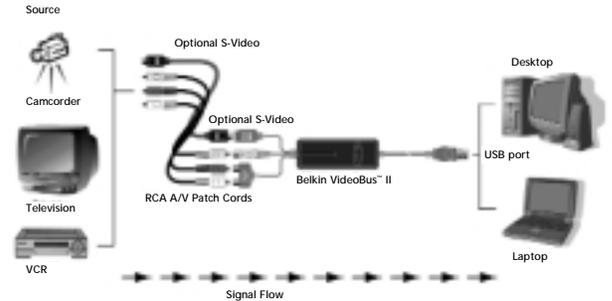## VideoBus™ II Connection

Connecting the VideoBus II between your computer and video device is very simple.

1. If not already connected, connect the VideoBus II USB connector to an open port on your computer or USB Hub.
2. Connect the RCA A/V patch cords (not supplied) to your video device (e.g. camcorder, VCR).

NOTE: If you have a video device that used S-Video, connect the S-Video cable instead of the RCA video cable.

3. Connect the A/V patch cords to the appropriate VideoBus II pigtails.

Connection Diagram

Source

Optional S-Video

Desktop

Camcorder

Optional S-Video

Television

USB port

RCA A/V Patch Cords

Belkin VideoBus™ II

VCR

Laptop

Signal Flow

Configuring Audio

Installing and Using Strata™ VideoShop 4.5 on the USB VideoBus™ II

The USB VideoBus driver CD comes with a software called Strata VideoShop 4.5 that will allow you to capture video and create amazing images; you can now proceed with installing this software. To install Strata VideoShop, double-click "Install VideoShop 4.5". Then follow the on-screen instructions.

The Strata VideoShop manual is in PDF format. If you do not have Adobe Acrobat Viewer, you must install Viewer. On the CD, double-click on "Acrobat Reader Install". Then on the following screen that appears, double-click on Reader 3.01 Installer. Next, follow the on-screen instructions. Once Adobe Acrobat is installed, you can open "Tutorial" to learn how to use Strata VideoShop 4.5. You can also browse "VideoShop 4.5 ReadMe" and "Documentation" for additional information.

Digitizing Clips using Strata VideoShop 4.5 on the USB VideoBus™

Using VideoShop's digitizing function, you can capture your own clips.

Equipment Needed for Digitizing:
- USB VideoBus—this will be your digitizing hardware installed on the computer
- VCR or camcorder and necessary cables

Digitizing Equipment Setup:
For digitizing, you will be capturing clips from an external source, such as a VCR or camcorder. Follow the instructions on the previous pages about connecting your VCR or camcorder to the USB VideoBus.

Before Digitizing:
- **Important:** To capture sound, follow the steps on the previous page regarding "Configuring Audio".
- To improve digitizing performance, it is recommended that you follow these rules:
    - a) Turn off network sharing.
    - b) Quit any other applications you are not using.
    - c) Defragment your hard drive.
    - d) Make sure you have adequate space on your hard drive to store the digitized clips. The following digitizing example will require at least 50MB.

Digitizing Clips (Example)

To Display the Digitizing Window:
1. Start VideoShop.
2. Select "New" from the "File" menu to start a new project.

Note: You do not have to have a project open to digitize. You can open the digitizing window at anytime with the "Show Digitizing Window" command. The digitized clips will be stored in the VideoShop cache folder (or designated digitizing folder). To use the clips, import them into the bin when you start a project.

3. The "Project Settings" dialog appears. Click on the "Internet" setting. Both the "Recording" and "Project Settings" change to "Width: 160", "Height: 120", and "FPS: 15". This means that the clip you digitize will be 160 pixels wide x 120 pixels high. Your VideoShop project will also have the same settings and have a frame rate of 15 frames per second.

4. Click "OK" to start a new project with these settings. A new project starts and VideoShop's main windows appear.

5. Select "Show Digitizing Window" from the "Windows" menu.

OR Click the "Digitize" button on the button bar (icon that looks like a video camcorder located on the upper right-hand corner of your screen). The "Digitizing" window is displayed. The size of the digitizing area is displayed at the top left: 160x120.

To Configure the Digitizing Software:

1. From the "Digitize" menu, select "Video On" to enable the video digitizing function.

Note: This command is only enabled if VideoShop detects a digitizing card in your computer (in our case it is the USB VideoBus).

A check mark next to the command indicates it's already active.

2. From the Digitizing menu, select "Video Settings". The "Video" dialog box appears.

3. From the "Video Settings" pop-up menu (top left) select "Source". This option is used to select the source for

the Video input to be digitized. The options in the dialog box will change to "Source Options".

4. Your Digitizer is "USB Vision". This may be the only option.

5. Select your "Input": either "S-Video" or "C-Video" depending on the type of your connection.

6. Select your "Format": NTSC, PAL, or SECAM. NTSC is the standard in the United States and Japan; PAL is used in Europe, and SECAM is used in France. Click "OK".

7. Again, from the "Digitize" menu, select "Sound On" to enable the Audio digitizing function.

A check mark next to the command indicates it's already active.

8. From the "Digitizing" menu, select "Sound Settings". The "Sound" dialogue box appears.

9. From the "Sound Settings" pop-up menu select "Source". This option is used to select the source for the audio input to be digitized. The options in the left half of the "Sound" dialogue change to "Source" options.

10. From the "Device" pop-up menu, select "Built-in". This may be the only option.

11. From the "Input" pop-up menu, select "Sound In".

12. From the "Speaker" pop-up menu, select "On". This will allow you to hear the audio through your computer's speaker while you are recording. Click "OK".

To Test Your Connections:

1. Turn on your VCR. Insert a tape, and press play. If you are using a camcorder, turn the power on.

2. Observe the video appears in the preview area of the "Digitizing Window".

3. Observe the audio is playing through the computer's speaker.

To Adjust the Digitized Video Image:

1. Click the "Image" button in the "Digitize Window". The "Image Settings" dialog appears.
2. Adjust the settings as desired. The results are shown in the preview window.
3. Click "OK" to accept your image changes.

To Adjust the Signal Level of the Digitized Audio:

1. Select the "Sound Settings" command from the "Digitizing" menu. The "Sound Settings" dialog appears.
2. Adjust the "Gain Control" slider until the audio signal peaks slightly into the red on the "Level" meter.

To Digitize Clips:

1. Locate a portion of the videotape that you want to digitize. Select a passage that has both video and sound. If you are using a camcorder, film something with motion and sound.
2. Play the tape.
3. Press the "Record" button in the "Digitize Window" using your mouse. Digitizing begins and the "Record" button turns into a "Stop" button. The "Disk Space Available" bar at the bottom of the window shows the space remaining on your hard drive.
4. Wait approximately 15 seconds and press the "Stop" button using your mouse. The digitized clip is stored in the "VideoShop Cache" folder and also appears in the "Bin" window as an "Untitled Movie Clip".

Note: You can change the location for storing digitized clips by designating a new "Digitizing" folder. Click the "Digitizing Folder" button in the "Digitizing" window to assign a new location.

5. Record two more 15-second clips using different footage if possible. You should have three movie clips in your

"Bin" named "Untitled Movie1", "Untitled Movie2", and "Untitled Movie3".

6. After digitizing clips, you can rename them in the "Bin".
   To rename files in the "Bin":
      1. Hold down the "Option" key, and click on the file name in the "Bin".
      2. Rename the file.

Note: Renaming the file in the "Bin" does not rename the file on your hard drive.

To Digitize Still Images:

1. Locate an image on the videotape that you want to digitize. If you are using a camcorder, aim it at an image you want to capture.
2. Play the tape. If your VCR has the capability to display freeze frames, freeze the tape at the frame desired.
3. Press the "Digitize Still Frame" button (icon that looks like a camera) using your mouse in the "Digitizing" window. The image is captured and stored in the "VideoShop Cache" folder with the name "Grabbed Picture X". Each new still image captured is given a different number.
4. Digitize two more still images. You should now have three files in the "VideoShop Cache" folder named "Grabbed Picture1", "Grabbed Picture2", and "Grabbed Picture3".

For further information about digitizing clips and using digitized clips in a movie, open "Tutorial" on the USB VideoBus CD. Go to Chapter 9, "Digitizing Clips and Printing to Videotape". It is recommended that you read the contents of the "Tutorial" file starting from the beginning (Chapter 1), so you will be familiar with all the terminology.

Information

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton CA 90220, declare under our sole responsibility that the product:

F5U208-MAC

to which this declaration relates:
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.

Belkin Components Limited Lifetime Product Warranty

Belkin Components warrants this product against defects in materials and workmanship for its lifetime . If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced. The warranty and remedies set forth above are exclusive in lieu of all others, whether oral or written, expressed or implied. Belkin specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. No Belkin dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty. Belkin is not responsible for special, incidental, or consequential damages resulting from any breach of warranty, or under any legal theory, including but not limited to lost profits, downtime, goodwill, damage to or reprogramming, or reproducing any program or data stored in or used with Belkin products. Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations of exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton CA 90220, declare under our sole responsibility that the product, VideoBus™II, F5U208 to which declaration relates, 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.

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