



Asus V7700 User Manual

V7700 series gigatexel graphic card hardware & video drivers

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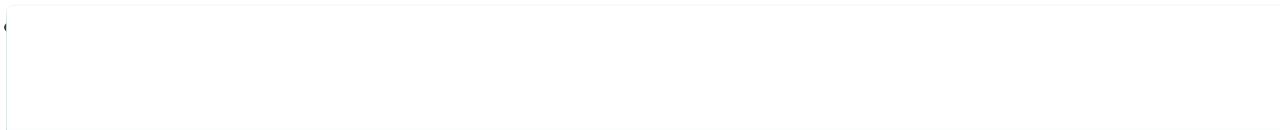
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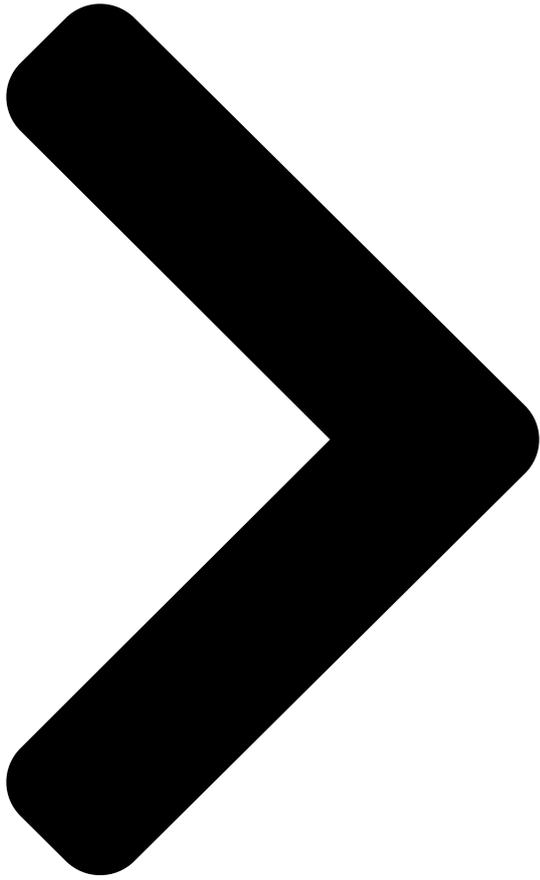
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V7700 Series



GigaTexel Shader Graphics Card

USER'S MANUAL

Hardware & Video Drivers

V7700 Deluxe

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Gigatexel shader graphics card (88 pages)

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[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

[Page 3: Technical Support](#)

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Email: sales@asuscom.de (for marketing requests only) Technical Support Hotline: MB/Others:
+49-2102-9599-0 Notebook: +49-2102-9599-10 Fax: +49-2102-9599-11 Support (Email):
www.asuscom.de/de/support (for online support) WWW: www.asuscom.de FTP:
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must be authorized by Macrovision Corporation, and is intended for home and other limited
viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering
or disassembly is prohibited. ASUS V7700 Series User's Manual...

[Page 7: Introduction](#)

DDR (Double Data Rate) memory, the ASUS V7700 delivers cutting-edge graphics performance
and superb image fidelity irrespective of the Central Processing Unit (CPU) used by the PC. The
ASUS V7700 gives you the experience of dynamic, realistic 3D worlds and characters. Available
Models...

[Page 8: Highlights](#)

- Multiple video windows with hardware color space conversion and filtering (YUV 4:2:2 and 4:2:0)
- Integrated 350MHz RAMDAC supporting from 640x480 up to 2048x1536 in true color
- BRDF (Bidirectional Reflectance Distribution Function) support
- Video acceleration for Direct Show and MPEG-1, MPEG-2, and Indeo

ASUS V7700 Series User's Manual...

[Page 9: II. Hardware Setup](#)

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[Page 18: Asus Tv77 Tv-Out Module \(Optional\)](#)

ASUS TV77 TV-Out Module (Optional) The ASUS TV77 TV-Out Module lets you connect S-Video or TV devices to the ASUS V7700 / ASUS V7700 Pro. See your dealer for more information on this module. ASUS TV77 TV-Out Module Layout TV-Out...

[Page 19: Asus Vr-100 Optional Upgrade Kit](#)

ASUS VR-100 Optional Upgrade Kit The ASUS VR-100 Optional Upgrade Kit enables the ASUS VR-100G 3D Glasses to be used with Pure models of the V7700 Series cards. See your dealer for more information on the ASUS VR-100 Optional Upgrade Kit.

[Page 20: Installation Procedures](#)

1. Change your display driver to Standard VGA. 2. Shut down your computer and unplug all electrical cords. 3. Replace the existing VGA card with your graphics card. 4. Restart your computer. 5. Install the ASUS V7700 series display driver. ASUS V7700 Series User's Manual...

[Page 21: Iii. Software Setup](#)

Windows 98 includes VGARTD for the major chipsets but it is recommended that you install VGARTD from the ASUS V7700 Series CD to make sure that you have the latest version of VGARTD (see III. Software Setup | Install GART Driver).

[Page 22: Display Driver Installation](#)

| Install GART Driver and III. Software Setup | Install DirectX later in this manual for the setup steps. Method 1: ASUS Quick Setup Program NOTE: See III. Software Setup | Drivers | Install Display Driver for more information. 1. Start Windows.

[Page 23: Method 2: Display Property Page](#)

OK. The Update Driver Warning box appears. Click Yes to confirm the setting up of the ASUS enhanced display drivers and then follow the onscreen instructions to start the setup. Setup will prompt you when it has finished installing all the necessary files on your computer.

[Page 24: Method 3: Plug And Play](#)

III. Software Setup Method 3: Plug and Play NOTE: Before proceeding with these steps, replace first your old VGA card with an ASUS V7700 series graphics card. 1. Start Windows. 2. When Windows detects your ASUS V7700 series graphics card, the New Hardware Found dialog box appears.

[Page 25: Windows 2000](#)

III. Software Setup Windows 2000 Method 1: ASUS Quick Setup Program 1. Start Windows. 2. When Windows detects your ASUS graphics card, the Found New Hardware Wizard dialog box appears. 3. Click Cancel to enter the Windows desktop. 4. Insert the CD installation disc into your CD-ROM drive.

[Page 26: Method 2: Plug And Play](#)

III. Software Setup Method 2: Plug and Play 1. Start Windows. 2. When Windows detects your ASUS graphics card, the Found New Hardware Wizard dialog box appears. 3. Click Next. 4. When the next Found New Hardware Wizard dialog box appears,...

[Page 27](#) 9. Follow the onscreen instructions to complete the setup. 10. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click OK to restart your computer and to complete Setup. ASUS V7700 Series User's Manual...

[Page 28: Windows Nt 4.0](#)

8. Type D:\NT40 or click Browse to select the path of the display driver for Windows NT. Click OK. 9. Select ASUS V7700 and then click OK. 10. Windows NT will once again prompt for confirmation. All appropriate files are then copied to the hard disk.

[Page 29: Drivers](#)

III. Software Setup | Windows NT 4.0 | Method 1: Display Property Page. If you prefer to install the drivers individually, follow the steps on the following pages. ASUS V7700 Series User's Manual...

[Page 30: Install Directx](#)

DirectX 7. Make sure that your applications or games support DirectX 7 before installing the DirectX 7 runtime libraries. DirectX 7 currently cannot be uninstalled by regular means, such as outlined in III. Software Setup | Uninstall Display Driver. ASUS V7700 Series User's Manual...

[Page 31: Install Gart Driver](#)

Intel, AMD, VIA, SiS, or ALi chipsets. 3. The AGP VGARTD Driver Detection box appears with the chipset detected on your motherboard. Click OK to install the appropriate driver for your AGPset. ASUS V7700 Series User's Manual...

[Page 32](#) Make your driver selection and click Install. 5. When the Welcome screen appears, click Next to continue. 6. Once the driver installation is finished, click Finish. ASUS V7700 Series User's Manual...

[Page 33: Install Asus Twain Driver](#)

Install ASUS TWAIN Driver Only with TVR Model/Windows 98 ASUS TWAIN Driver is a frame capture driver for Adobe Photoshop®, an image editing software. With this driver, you can capture still images through Photoshop using the video input port of your card (TVR model/Windows 98 only).

[Page 34: Uninstall Display Driver](#)

2. Click Control Panel. 3. Double-click the Add/Remove Programs icon. 4. Click the Install/Uninstall tab. 5. Click ASUS Display Drivers from the list. 6. Click Add/Remove. 7. The system will prompt you to restart your computer. Click Yes to restart.

[Page 35: Windows Nt 4.0](#)

2. Click Control Panel. 3. Double-click the Add/Remove Programs icon. 4. Click the Install/Uninstall tab. 5. Click ASUS Display Drivers from the list. 6. Click Add/Remove. 7. The system will prompt you to restart your computer. Click Yes to restart.

[Page 36: Run Asus Vga Live Update](#)

Run ASUS VGA Live Update Windows 98 Only The ASUS VGA Live Update is a utility that allows you to update your VGA card's BIOS and drivers. The use of this utility assumes that you are properly connected to the Internet through an Internet Service Provider (ISP).

[Page 37: Install Video For Windows Capture Driver](#)

Install Video for Windows Capture Driver Windows 2000/NT 4.0 Only The Video for Windows Capture Driver must be installed to use ASUS Live Video (see IV. Software Reference | ASUS Live Video). This driver conforms to the Microsoft Video for Windows standard.

[Page 38: Install Asus Tweak Utility](#)

III. Software Setup Utilities Install ASUS Tweak Utility The ASUS Tweak Utility lets you control the core clock speed and the memory interface speed of your graphics card. WARNING! Use this option with caution. Using this inappropriately may damage your card and cause your system to be unstable.

[Page 39: Install Smartdoctor](#)

The installation will abort. SmartDoctor works only with cards with a monitor IC. 3. When the Welcome box appears, click Next to start the installation. To complete the installation, simply

follow the on-screen instructions or prompts. ASUS V7700 Series User's Manual...

[Page 40: Install Videosecurity](#)

CD-ROM drive. Click Utilities. 2. The Utilities box appears. Click Install VideoSecurity. 3. When the Welcome box appears, click Next to start the installation. To complete the installation, simply follow the on-screen instructions or prompts. ASUS V7700 Series User's Manual...

[Page 41: Install Asus Live Utility](#)

III. Software Setup Install ASUS Live Utility The ASUS Live utility lets you view and capture video images from the card's video input port. NOTE: Make sure that you have an ASUS graphics card with connector VIDEO-IN before attempting to install the utility.

[Page 42: Install Asus Digital Vcr](#)

III. Software Setup Install ASUS Digital VCR ASUS DigitalVCR, like the ASUS Live utility, lets you view and capture video images from the card's video input port. Digital VCR, however, provides extra functions, such as a playback module and TimeShifting™.

[Page 43: Iv. Software Reference](#)

(Windows 98/Windows 2000 only) After installation of the display drivers, you will find an ASUS icon on the taskbar's status area. Clicking or right-clicking this icon opens the ASUS Control Panel, showing a menu composed of shortcuts of the graphics board's enhanced and other functions.

[Page 44: More Resolution](#)

Information lists the relevant information about your card. Aside from this, it has links to the ASUSTeK COMPUTER, INC. web site for updated information about the graphics board, latest drivers, and other information. ASUS V7700 Series User's Manual...

[Page 45: Color](#)

D3D/Game lets you make your favorite Windows desktop. color settings for D3D games. Video OpenGL Video lets you make your favorite color OpenGL lets you make your favorite settings for videos. color settings for OpenGL applications. ASUS V7700 Series User's Manual...

[Page 46: General Functions](#)

You may want to save a scheme that you created for some special situations, such as when you want to use the same settings when playing a certain game or a movie. ASUS V7700 Series User's Manual...

[Page 47: Important Notes](#)

DirectDraw/Direct3D game. Video Only one overlay is allowed at a time with ASUS V7700. That is, when you click Video first and then run your favorite video player, you can only see the adjustments you made to the settings in the preview window because the video player cannot use the hardware acceleration function (overlay).

[Page 48: Display](#)

Test and then click YES when prompted to add the new refresh rate into the list. Otherwise, the original refresh rate will be restored. Load default Restores the settings to their defaults. ASUS V7700 Series User's Manual...

[Page 49](#) DirectDraw. It is most useful when you are playing a full-screen game. To change the refresh rate 1. Click Change refresh rate. 2. In the Refresh Rate list under the DirectDraw tab, select the refresh rate you want to use. ASUS V7700 Series User's Manual...

[Page 50](#) Displays the connection status of composite and S-Video. Scan type Sets the scan type of the TV display. Black Level Sets the brightness of the TV display. Contrast Sets the contrast of the TV display. Flicker Filter Sets the anti-flicker effect. ASUS V7700 Series User's Manual...

[Page 51](#) Advanced provides some advanced settings for the ASUS VR-100G 3D Glasses (setting is available only with the Deluxe/TVR models—models with Video-In/TV-Out—or models

with the ASUS VR-100 Optional Upgrade Kit) and Direct3D and OpenGL, which are software interfaces for your graphics cards.

[Page 52: On Screen Display](#)

IMPORTANT: Before enabling stereoscopic mode and using your stereoscopic or 3D glasses (ASUS VR-100G), make sure that your monitor can support the selected refresh rate (interlaced mode) under the following display modes: 16 bits: 640 x 480, 800 x 600, 960 x 720, 1024 x 768, 1152 x 864...

[Page 53: Osd Settings](#)

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[Page 54](#) IV. Software Reference (This page was intentionally left blank.) ASUS V7700 Series User's Manual...

[Page 55: Direct3D](#)

Normally, you will want to keep this option enabled, unless your work absolutely requires a specific Z-buffer depth. Enable alternate depth buffering technique This option lets the hardware use a different mechanism for depth buffering in 16-bit applications. Enabling this setting can produce higher quality rendering of 3D images. ASUS V7700 Series User's Manual...

[Page 56](#) AGP heap size by an amount equal to the size of the command buffer. If you are experiencing stability problems with your system (especially with some Socket 7 motherboards), choose this option for best compatibility. Performance is, however, poorer using this option compared with the PCI option. ASUS V7700 Series User's Manual...

[Page 57](#) Reduce this value if you experience, while playing games, a noticeable delay in the response of the input devices connected to your computer. ASUS V7700 Series User's Manual...

[Page 58: Opengl Vr](#)

IMPORTANT: Before enabling OpenGL stereoscopic mode and using your stereoscopic or 3D glasses (ASUS VR-100G), make sure that you select a high resolution. The equivalent Stereo Mode resolution of a particular resolution is lower, thus: 16 bits: 2048x1536...

[Page 59: On Screen Display](#)

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[Page 60: Opengl](#)

This option allows OpenGL to use anisotropic filtering for improved image quality. Enable alternate depth buffering technique This option lets the hardware use a different mechanism, for depth buffering in 16-bit applications. Enabling this setting produces higher quality rendering of 3D images. ASUS V7700 Series User's Manual...

[Page 61](#) **NOTE:** This setting applies only to PCI display memory for texture storage adapters or to AGP display adapters running in depends on the physical memory PCI compatibility mode. installed on your system. ASUS V7700 Series User's Manual...

[Page 62: Other](#)

General Timing Formula (GTF) GTF is a standard used by most new hardware. Discrete Monitor Timings (DMT) DMT is an older standard still in use on some hardware. Select this option if your hardware requires DMT. ASUS V7700 Series User's Manual...

[Page 63: Using The Asus Utilities](#)

Using this inappropriately may damage your card, its components, and your system. To run the ASUS Tweak Utility, click Start and point to Programs, Asus, Tweak-ing Utilities, and then click Tweak.

[Page 64](#) 2. In Windows, click Start and point to Programs, Asus, Tweak Utility, and then click Tweak Safe Mode Recovery. 3. The ASUS Tweak Safe Mode Properties box appears. Click the appropriate settings. Timing Adjustment (Safe Mode) Select the Clear tweak settings and...

[Page 65: Asus Videosecurity](#)

4. Software Reference ASUS VideoSecurity Windows 98 Only NOTE: The ASUS VideoSecurity utility can only be used with models with Video-In/TV-Out. ASUS VideoSecurity lets you detect intruders into your system and environmental changes and monitor a specified location or any incoming visitor. If VideoSecurity detects any deviation from the norm that you set, it may give an error message or not.

[Page 66: Main Window](#)

4. Software Reference NOTE: The following descriptions are only for selected features of the ASUS VideoSecurity utility. For a full description of the features described in this manual and other features, refer to the ASUS VideoSecurity Online Help (HTML) format included with your support CD.

[Page 67](#) VideoSecurity not only detects errors or problems in your card but also monitors or detects an intrusion. Use this to stop tracing or to choose the error processing method to use while tracing. This box appears when an error occurs. Error Processing Procedure Stop Detecting Setting ASUS V7700 Series User's Manual...

[Page 68: Shortcut Keys](#)

Color, Video VideoSecurity will Connector, and monitor for errors or Video Standard intrusion. Shortcut Keys Exits VideoSecurity Opens Online help Toggles VideoSecurity / Stop Watchdog function Opens Setup menu Shows error log box ASUS V7700 Series User's Manual...

[Page 69: Asus Live Video](#)

(see 3. Software Setup | Install DirectX) Running ASUS Live Video To run the utility, click Start and point to Programs and then ASUS Live and then click ASUS Live. You may also run ASUS Live by clicking or right-clicking the ASUS Control Panel icon (see 4.

[Page 70: Capture Mode](#)

(NTSC-M, NTSC-N, NTSC-4.43, PAL- BGHI, PAL-4.43, PAL-M, PAL-N or SECAM) Click here to open the ASUS Live Pre-Recording Setting Click here to change the dialog box. window size for viewing [160 x 120, 176 x 120, 340 x 240, 352 x 240 (default), 640 x 480, 720 x 480 or Full Screen].

[Page 71](#) Video Source Option When first using ASUS Live, you must set up the video source. By clicking the Video Source Option (F9) button (hotkey: F9) on the ASUS Live Control Panel, you can show or hide the video source setup screen.

[Page 72](#) LEFT RIGHT arrow keys to make the desired adjustments. Click again the Video Source Option (F9) button on the ASUS Live Control Panel to exit from the video source option screen. ASUS Live Video Modes ASUS Live Mode has two execution modes, namely, Live Mode and Capture Mode.

[Page 73](#) 4. Software Reference Video Capture IMPORTANT: It is the intent of ASUS that this product be used in full compliance with the copyright laws of your respective and other countries and that prior permission be obtained from copyright owners whenever necessary.

[Page 74: Capturing Images](#)

You must be in capture mode to capture images. To do this, click the Capture Mode button on the ASUS Main Panel. NOTE: ASUS Live will automatically detect and warn you if the capture driver installed in your system is not compatible with ASUS Live.

[Page 75](#) Manual Recording to select the video recording settings, such as the Frame Rate (fps) (default: 30), Maximum Capture Time (default: 10 seconds) and File name and path (default: C:\CAPTURE.AVI) You are now ready to capture video images. ASUS V7700 Series User's Manual...

[Page 76](#) The video recording will start at the designated date and time. NOTE: The video recording settings assume that you have a video device connected to your ASUS graphics card and that the device is turned on and running. Snapshot...

[Page 77](#) 1. Windows 2000/NT4.0: The capture performance quality under Windows 2000/NT 4.0 is not as good as that under Windows 98. 2. Windows NT 4.0: To run ASUS Live Video, Windows NT 4.0 Service Pack 3 or later must be installed on your computer. You may download service packs at <http://www.microsoft.com/ntworkstation/downloads>.

[Page 78: Asus Smartdoctor](#)

4. Software Reference ASUS SmartDoctor ASUS SmartDoctor is designed to satisfy two major goals. One is to monitor the graphic chip status, alerting users about abnormal events, such as fan malfunction or chip overheat. The other, as the name "SmartDoctor" implies, is to "cool" down the graphic chip smartly when it is not necessary for it to be kept running at full speed.

[Page 79: Advanced Setup](#)

When you select Run and keep resident and then click OK, a dialog box appears to warn you of a possible graphic performance drop. This performance penalty is very slight and almost undetectable even under rigorous examination by benchmark programs. ASUS V7700 Series User's Manual...

[Page 80](#) The component in question will also have a flashing red value. If you enabled overheat protection in Advanced Setup dialog, SmartDoctor will cool down the graphic chip in time to protect it from possible overheat damage. ASUS V7700 Series User's Manual...

[Page 81: Asus Digital Vcr](#)

The contents are subject to change at any time without notice. 2. ASUS Digital VCR can only be used with the TVR model (models with a Video Decoder) and monitors or monitor drivers that are designed for I2C bus control.

[Page 82](#) 4. Software Reference Using ASUS Digital VCR ASUS Digital VCR has been designed as a standard Windows program. That is, functions can be accessed by means of the main menu bar or by clicking the toolbar buttons on the program window. It has three operational modes: Live Mode, Capture Mode, and Playback Mode.

[Page 83](#) Window(W) menu. OSD Setup When first using ASUS Digital VCR, you must set up the video source. Use the OSD Setup button on the ASUS Digital VCR Control Panel to show or hide the video source setup screen on the monitor.

[Page 84](#) 4. Software Reference Live Mode The default mode when you open ASUS Digital VCR is Live Mode, which lets you view live video. Under this mode, the VCR monitor can be resized (default size: 352x240) by dragging either of the four window corners (see preceding illustration on the ASUS Digital VCR monitor).

[Page 85](#) If desired, you may adjust the Brightness, Contrast, Saturation, and Hue of the VCR monitor. Use your mouse/pointing device to make the necessary adjustments. Click again the Video Source Option (F9) button on the ASUS Live Control Panel to exit from the video source option screen.

[Page 86](#) To set up Video Capture, click Video Capture Video Capture lets you set the snapshot and video capture settings. To use Video Capture, click (or use the hot key or select Capture Mode on the Setup(S) menu). ASUS V7700 Series User's Manual...

[Page 87](#) 4. Software Reference IMPORTANT: It is the intent of ASUS that this product be used in full compliance with the copyright laws of your respective and other countries and that prior permission be obtained from copyright owners whenever necessary.

[Page 88](#) You must be in capture mode to capture images. To do this, click on the ASUS Digital VCR toolbar. NOTE: ASUS Digital VCR will automatically detect and warn you if the capture driver installed in your system is not compatible with ASUS Digital VCR. Snapshot...

[Page 89](#) (24-bit), full-motion (30 frames /sec) video capture requires about 27MB/sec (before

compression). Captured file name lets you set the path and file name of the images to be captured (default: C:\CAPTURE.AVI You are now ready to capture video images. ASUS V7700 Series User's Manual...

[Page 90](#) The video recording will start at the designated date and time. NOTE: The video recording settings assume that you have a video device connected to your ASUS graphics card and that the device is turned on and running. ASUS V7700 Series User's Manual...

[Page 91](#) To begin capturing, do the following: 1. Click on the ASUS Digital VCR toolbar or press the key to capture the desired image from the ASUS Digital VCR monitor. The screen will freeze momentarily and the captured image (saved as a file, using consecutive numbers) will be previewed in the Preview Library window.

[Page 92](#) Capture Frames box. 2. Click Capture to begin capturing the desired frame or frames on ASUS Digital VCR monitor and then click Stop when the desired end frame is reached. The initial frame of the captured video (saved as a file) will immediately be displayed on your movie player.

[Page 93](#) ASUS TimeShifting™. When you come back, you don't have to wait (unlike traditional recorders) for the recording to finish to be able to watch what's been...

[Page 94: Playback Mode](#)

4. Software Reference Playback Mode Playback (hotkey: F4) lets you play back captured video stream data using ASUS Digital VCR. To begin playback, do the following: 1. Click on the ASUS Digital VCR toolbar or press the key. 2. The Open (video file) dialog box opens. Double-click the video file you want to open.

[Page 95: Using The Other Utilities](#)

Select ASUS Frame Capture Source. NOTE: You do not need to repeat this step for subsequent uses of the ASUS TWAIN module. If more than one TWAIN device is installed in your system and you want to switch devices, use Select TWAIN_32 Source command.

[Page 96: Other Options](#)

4. Software Reference 2. When the ASUS TWAIN Driver utility appears, click Options and then Video Format. 3. In the Image Format list of the ASUS Video Format dialog box, click 24 bit RGB. 4. Click Options and then Video Format to select your video source.

[Page 97: Asus Vr Pictureviewer](#)

Optional ASUS VR PictureViewer lets you view stereo images, size your stereo image, set the VR effect of your 3D glasses (ASUS VR-100G), and test your 3D glasses' functionality. To run ASUS VR PictureViewer, click or right-click the ASUS Control Panel icon (see 4).

[Page 98](#) Note that the 3D effect is not shown in this picture). Changing the View 1. Click the Zoom menu and then click the desired zoom percentage. Testing the 3D Glasses 1. Click the Test 3D glasses and then follow the onscreen instructions. ASUS V7700 Series User's Manual...

[Page 99: Asus Stereotv](#)

NOTE: The ASUS StereoTV utility can only be used with the Deluxe Combo. It can be used to view stereo video images with the optional 3D glasses (ASUS VR-100G) using your monitor or TV as screen from traditional consumer devices, such as videocassette players, camcorders, digital cameras, and laser disc players through the onboard RCA or SVHS VIDEO-IN connectors.

[Page 100](#) Use this button to select the video format (Options: NTSC, PAL-BGHI, PAL-4.43) and video source (Options: Composite, Video). Minimize Button Clicking this button minimizes the ASUS VR MoviePlayer. Exit Button Clicking this button closes StereoTV. ASUS V7700 Series User's Manual...

[Page 101: Resolution Table](#)

140Hz 131.3 144Hz 135.2 150Hz 141.4 170Hz 162.9 200Hz 194.9 1280 x 960 60Hz 60.0 70Hz 69.9 72Hz 72.1 75Hz 75.2 85Hz 86.0 100Hz 101.7 120Hz 123.5 140Hz 145.1 144Hz 150.5 150Hz 157.2 170Hz 179.8 ASUS V7700 Series User's Manual...

[Page 102](#) 74.6 70Hz 87.4 72Hz 90.0 75Hz 94.0 85Hz 106.7 100Hz 126.7 1920 x 1440 60Hz 89.4 70Hz 104.9 72Hz 108.5 75Hz 112.5 85Hz 129.4 2048 x 1536 60Hz 95.5 70Hz 111.9 72Hz 115.3 75Hz 121.3 ASUS V7700 Series User's Manual...

[Page 103: Vi. Troubleshooting](#)

I can't use VideoSecurity Composite CCDs. Any device used must be connected to an ASUS video card. I am using Video Security • This is a very important issue when you decide to and it seems my hard disk use VideoSecurity with the "never stop"...

[Page 104](#) VideoSecurity and install a new copy. Make a way to recover my password that the password that you assigned can be easily remembered. You may write down your password and store it in a safe place. ASUS V7700 Series User's Manual...

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