

# **Matrox CompressHD**

Installation and User Guide  
(Windows version)

July 8, 2013

**matrox**<sup>®</sup>  
Digital Video Solutions

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# 1

## **Introducing Matrox CompressHD**

This chapter lists the CompressHD system requirements, and describes the CompressHD documentation.

## Welcome to Matrox CompressHD

Matrox CompressHD is an H.264 accelerator card that lets you quickly and easily export material to H.264 files for Blu-ray Disc, the web, and mobile devices. Matrox CompressHD is the first implementation of Matrox MAX technology that lets you create H.264 files for resolutions ranging from iPod to HD, and it works in systems with or without a video I/O device.

## Matrox CompressHD system requirements

Matrox CompressHD requires a computer system with the following minimum configuration:

- Intel Core 2 Duo 2.67 GHz CPU.
- Microsoft Windows 7 Professional, Ultimate, or Home Premium (64-bit) with Service Pack 1.
- 4 GB of RAM (8 GB is recommended).
- One free PCIe slot.

For up-to-date information about system requirements, check the Matrox CompressHD Support section of our website at [www.matrox.com/video/support](http://www.matrox.com/video/support).

## Supported programs

For a complete list of the third-party applications supported for using Matrox CompressHD with the current software release, see the “Supported OS and Applications” document provided in the “Downloads” section of the Matrox Compress HD Support website.

## About this manual

This manual provides you with information about installing and using your Matrox CompressHD card, including how to use Matrox CompressHD to export material with Adobe Media Encoder.

## Style conventions

The following style conventions are used in this manual:

- The names of files, folders, and manuals appear in *italics*. For example:
  - The data is stored in the *Sample.wav* file.
  - The file is located in your *C:\Windows\System* folder.
  - Please refer to your *Matrox CompressHD Release Notes*.
- Menus and commands that you need to choose are displayed in the form **Menu > Command**. For example, **File > Save** means click **File** in the menu bar, then click **Save** in the menu that appears.

## **Last-minute information**

Any important information that wasn't available for inclusion in this manual by publication time is provided to you in the *Matrox CompressHD Release Notes*.

## Your notes

# 2

## **Installing Your Matrox CompressHD Hardware and Software**

This chapter describes how to install the Matrox CompressHD card, and how to install and remove your CompressHD software.

## Before you install your Matrox CompressHD hardware

Read the following information carefully before attempting to install Matrox CompressHD hardware.

### Start with a functioning system

Before attempting any Matrox CompressHD installation, you should have a computer system with a supported Windows operating system fully installed and functioning smoothly. This will avoid potential problems later on.

### Avoid costly damage

Static electricity from your body can damage your Matrox CompressHD card or your computer. Although you may not notice it, static electricity is generated every time you move. It's often too small to cause a spark, but it can still cause damage to sensitive electronic components or at least reduce their lifespan.

To avoid damage, please observe the following precautions:

- Do not remove your Matrox CompressHD card from its antistatic bag until you're ready to install it. Before removing the card, place the package within easy reach of the area where you intend to perform the installation.
- You should avoid touching the chips and other components on the circuit board. Try to handle the card by its edges.
- Try to work in an area where the relative humidity is at least 50%.
- Do not wear wool or synthetic clothing. These fabrics tend to generate more static electricity than cotton, which is best for this kind of work.
- Turn off the power switches on your computer and its connected components.

Once you've opened your computer, drain static electricity from your body by touching a bare metal surface on your computer chassis before you install or remove any parts of your system. If you have a grounding wrist strap, use it while handling and installing any components in your computer.

## Installing your Matrox CompressHD card

The Matrox CompressHD card is a low-profile, half-length PCIe x1 card designed to operate in a PCIe slot in your computer. For detailed instructions on how to perform the following steps, refer to your computer's documentation.

- 1 Shut down your system, unplug the power cord and all the cables from the unit, and open your computer's chassis.
- 2 Insert the Matrox CompressHD card in an available PCIe slot in your computer, and secure the card into place.



**Caution** To avoid overheating issues, don't install CompressHD close to another card that generates heat, such as a display card.

- 3 Close your computer's chassis, and reconnect the power cord and all the cables to the unit.

## Installing Matrox Mtx.utils

Matrox Mtx.utils installs the CompressHD device drivers, and all the software required to use your CompressHD card. This includes Matrox presets for using Adobe Media Encoder to export material to various formats with the Matrox MAX H.264 codec. In addition to the Matrox MAX H.264 codec, several other Matrox codecs are installed so that you can play back Matrox .avi files on your CompressHD system.



**Important** Before installing Matrox Mtx.utils, make sure that you have Adobe Media Encoder installed on your computer. Adobe Media Encoder is included with many Adobe programs, such as Adobe Premiere Pro, After Effects, and Encore.

You can install Matrox Mtx.utils on a computer with or without the CompressHD card installed. To download and install the latest version of Matrox Mtx.utils, visit the CompressHD Support section of our website at [www.matrox.com/video/support](http://www.matrox.com/video/support). You can also contact your CompressHD dealer for the latest software.



**Note** Matrox Mtx.utils Setup installs software for CompressHD as well as Matrox products that can be used with CompressHD, such as Matrox MXO2. If you have only the CompressHD card, you won't be able to use software intended for use with other Matrox products (for example, Matrox A/V Tools and the Matrox WYSIWYG plug-ins). For details on using Mtx.utils software with another Matrox product, refer to your Matrox documentation for that product.

## Updating your CompressHD firmware

When you install Matrox Mtx.utils on a computer that has the CompressHD card installed, the Mtx.utils Setup program automatically verifies the firmware on your CompressHD card and updates it if required. If you install Mtx.utils on a computer without the CompressHD card, the next time you start your computer with CompressHD installed, Mtx.utils Setup will update your CompressHD card's firmware if needed.



**Caution** Do not power off your computer, or interrupt the firmware update during the update process. Doing so may damage your CompressHD card.

## Note about using sleep and hibernation modes with CompressHD

Before setting your computer to sleep or hibernation mode, make sure that you first quit any application that is using your CompressHD hardware, such as Adobe Media Encoder.

## Removing your Matrox CompressHD software

To remove Matrox Mtx.utils from your computer, choose **Start > All Programs > Matrox Mtx.utils > Uninstall Matrox Mtx.utils**.

# 3

## **Using the Matrox MAX H.264 Codec with Adobe Software**

This chapter explains how to use the Matrox MAX H.264 codec on your Matrox CompressHD card to export material to Blu-ray Disc and other media formats from Adobe Media Encoder, Premiere Pro, and Encore.

## Exporting to Matrox MAX H.264 files using Adobe Media Encoder

With Matrox CompressHD, you can use the Matrox MAX H.264 codec with Adobe Media Encoder to quickly and easily export material to H.264 files for Blu-ray Disc and other media formats. Matrox presets are provided for creating .264 elementary stream files in HD formats that are supported for Blu-ray Disc authoring using Adobe Encore, and .mp4 files for creating files suitable for the web and mobile devices.

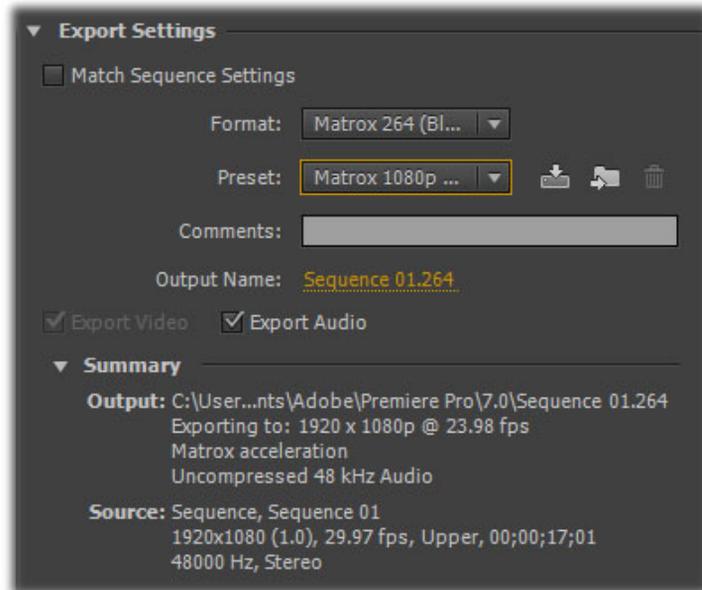
Your Matrox .264 elementary stream files can be imported to Adobe Encore without having to transcode the files. If you prefer, you can choose to transcode your material to Matrox H.264 format for Blu-ray Disc authoring directly within Encore as explained in [“Transcoding for Blu-ray Disc authoring in Adobe Encore”](#) on page 16.

### Remarks

- When you export an Adobe Premiere Pro sequence, the speed of the export is affected by the rendering of any non-realtime sections of the sequence. If your sequence’s video format matches your export format and you’ve rendered previews of non-realtime sections, you can select **Use Previews** in the **Export Settings** dialog box prior to performing your export. When you do this, Premiere Pro won’t need to render the non-realtime sections for which you’ve already created preview files.
- If you want to export a single Adobe Premiere Pro sequence, you may find it more convenient and get faster results if you don’t export from Adobe Media Encoder, and instead perform a direct export from Adobe Premiere Pro (see [“Performing a direct export of an Adobe Premiere Pro sequence”](#) on page 15).

⇒ **To export material to a Matrox MAX H.264 file:**

- 1 Start Adobe Media Encoder and add the source (clip, sequence, or composition) that you want to export, and then click the source's format or preset in the **Queue** panel to display the **Export Settings** dialog box.



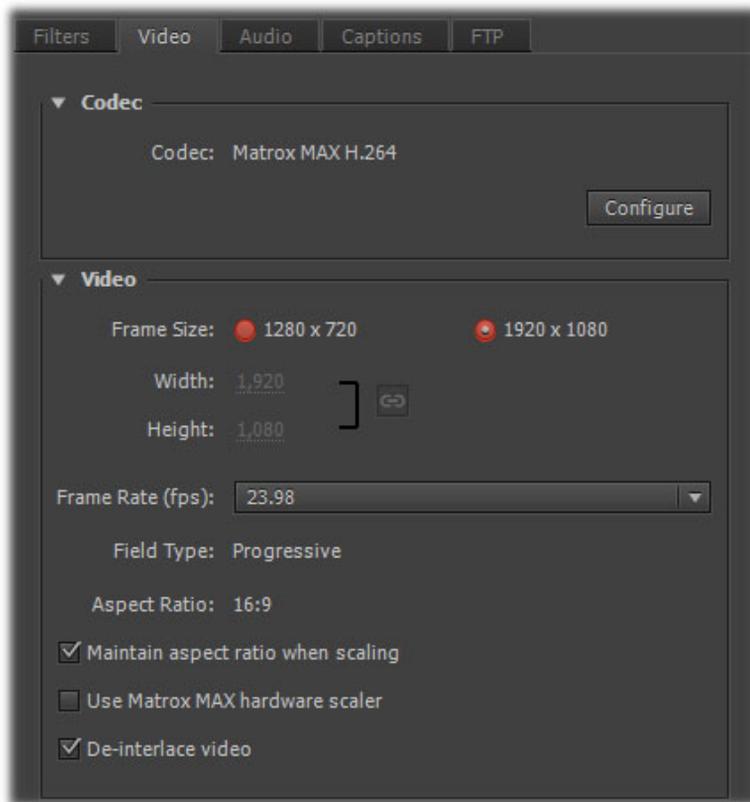
- 2 From the **Format** list, select one of the following Matrox formats:
  - **Matrox 264 (Blu-ray)** Creates a *.264* elementary stream file, which is supported for Blu-ray Disc authoring. Audio is exported as separate mono or stereo *.wav* files (PCM audio).
  - **Matrox MP4** Creates an *.mp4* file with embedded stereo AAC audio, which is suitable for the web and mobile devices.
- 3 From the **Preset** list, select the preset that matches the video format you want for your exported file. Appropriate video and audio settings are automatically set based on your selected preset.



**Note** If you're exporting to a Matrox *.mp4* file, two types of presets will be available—Fast Encode and High Quality. Select a Fast Encode preset for fast encoding that leverages your system's resources with your Matrox hardware. Select a High Quality preset for high-quality encoding that is performed entirely by your Matrox hardware, which frees your system's resources for other tasks.

- 4 Select **Export Video** and **Export Audio** if you want to export both video and audio.

- 5 Click the **Video** tab to display the settings for your exported video.



- 6 Under **Codec**, click **Configure** to customize your Matrox MAX H.264 codec settings as explained in [“Specifying your Matrox MAX H.264 settings”](#) on page 19.

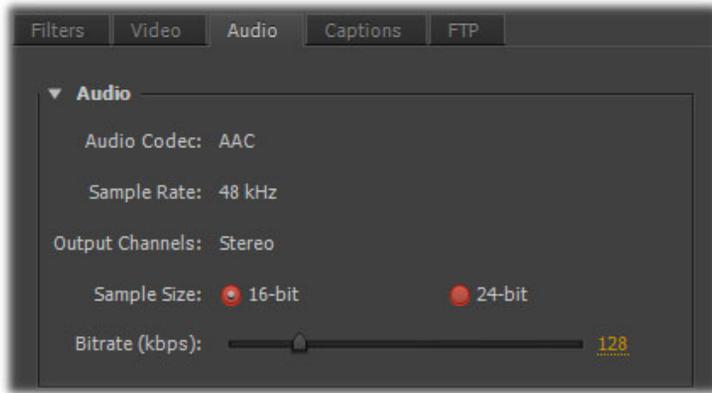
**Tip** You can check the **Estimated File Size** at the bottom of the dialog box to determine the approximate file size of your exported material based on your currently selected settings. If needed, you can change your Matrox MAX H.264 settings to better meet your file size requirements, such as by selecting a different encoding type and lower data rate.

- 7 Under **Video**, you can customize the settings that you want for your exported video:
  - **Frame Size** Sets the width and height for your exported video. When exporting to a Matrox *.264* file, the available frame sizes are **1920 x 1080** and **1280 x 720**. When exporting to a Matrox *.mp4* file, you can select a frame size, or select **Custom (Square Pixels)** if you want to enter a

custom size. If you enter an unsupported frame size, the closest supported frame size will be used.

- **Frame Rate** Sets the frame rate for your exported video.
- **Field Type** Indicates the order in which the video fields are displayed, such as **Upper First** for interlaced HD video, or **Progressive** for all progressive video formats.
- **Aspect Ratio** This is set to **16:9** when exporting to HD. When exporting to SD, you can select **4:3** to export to the standard TV screen format, or **16:9** to export to the widescreen 16:9 format.
- **Maintain aspect ratio when scaling** Select this option if you're scaling your source video for export, and you want to maintain your source video's aspect ratio. Your source video will be exported as pillarbox video when exporting to a larger aspect ratio, or letterbox video when exporting to a smaller aspect ratio. If this option is not selected, scaled video that doesn't match the specified aspect ratio for export will be exported as anamorphic video.
- **Use Matrox MAX hardware scaler** Select this option if you're scaling your source video for export, and you want to use the Matrox MAX hardware scaler to perform the scaling. This gives good performance when scaling to an HD resolution. If you're downscaling to an SD or lower resolution, you can get a faster export by clearing this option, which allows Adobe to perform the scaling.
- **De-interlace video** If you're exporting interlaced video to a progressive format (such as 1080i to 720p), select this option to de-interlace the video for display on a monitor that displays lines progressively, such as an LCD or computer monitor. (This option won't be present if you're exporting to an interlaced format or your source video is progressive.)

- 8 Click the **Audio** tab to display the settings for your exported audio. The available settings depend on whether you're exporting to a Matrox *.264* or *.mp4* file.



- 9 Under **Audio**, you can customize the settings that you want for your exported audio:
- **Audio Codec** This is set to **Uncompressed** when exporting to a Matrox *.264* file, or **AAC** when exporting to an *.mp4* file.
  - **Sample Rate** This is set to **48 kHz**.
  - **Output Channels** Specifies the audio channels to be exported (set to **Stereo** when exporting to a Matrox *.mp4* file).



**Note** When exporting audio from an Adobe Premiere Pro sequence to a Matrox *.264* file, the available output channels depend on the type of audio tracks being exported. For example, you can select **Surround 5.1** to export 5.1 surround tracks to six mono *.wav* files. For a 16-channel track, you can select **Mono** or **Stereo** to export the audio to a single mono or stereo *.wav* file.

- **Sample Size** You can select **16-bit** or **24-bit**.
  - **Bitrate** For AAC audio, drag the bitrate slider to select the bitrate you want for your exported audio.
- 10 Click **OK** to save your export settings, and then click **Start Queue** (▶) to start the export.

For more information about using Adobe Media Encoder and specifying export settings, see your Adobe Media Encoder or Premiere Pro documentation.

## Performing a direct export of an Adobe Premiere Pro sequence

When you export an Adobe Premiere Pro sequence from within Adobe Media Encoder, additional processing is required to transfer the sequence from Premiere Pro to Media Encoder. If you want to export only a single sequence to a Matrox MAX H.264 file (.264 or .mp4 file), you may find it more convenient and get faster results by performing a direct export as explained in this section.



**Note** A direct export can't be used for batch encoding of Premiere Pro sequences. As well, you won't be able to work in Premiere Pro while your sequence is being exported. If you want to batch encode sequences to Matrox MAX H.264 files or continue to work in Premiere Pro while exporting, you must export from Media Encoder. To avoid problems, don't perform a direct export and use Media Encoder independently to export Matrox MAX H.264 files at the same time.



### To perform a direct export of a Premiere Pro sequence:

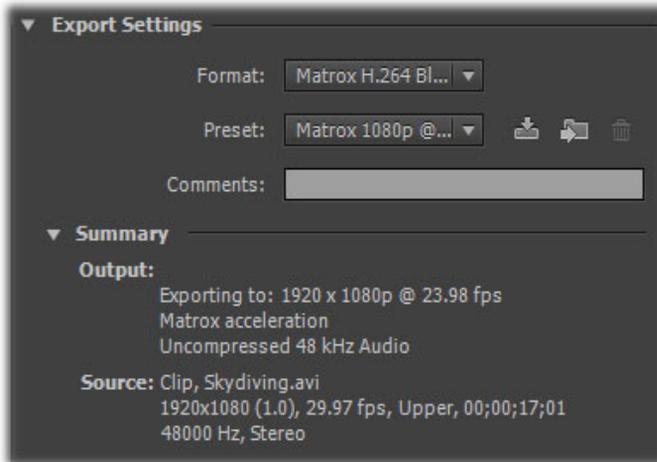
- 1 Unless you want to export your entire sequence, position the work area bar over the section of the sequence you want to export.
- 2 Choose **File > Export > Media**.
- 3 In the **Export Settings** dialog box, select your desired Matrox format, preset, video settings, and audio settings as explained in [“Exporting to Matrox MAX H.264 files using Adobe Media Encoder”](#) on page 10 (see steps 2 to 9).
- 4 From the **Source Range** list in the **Source** panel, select the range you want to export, such as **Work Area**.
- 5 Click **Export** to immediately start your export.

## Transcoding for Blu-ray Disc authoring in Adobe Encore

Instead of exporting material to a Matrox *.264* file from Adobe Media Encoder or Premiere Pro and then importing the file into Adobe Encore for Blu-ray Disc authoring, you can choose to perform the transcoding of clips directly within Encore. The transcoding will be accelerated using the Matrox MAX H.264 codec.

### ⇒ To transcode to Matrox H.264 format for Blu-ray Disc authoring:

- 1 Start Adobe Encore, create a new Blu-ray project, and import the clip that you want to transcode as an asset as explained in your Adobe Encore documentation.
- 2 Right-click the clip in the **Project** panel, choose **Transcode Settings**, and click **Edit Quality Presets** to display the **Export Settings** dialog box:

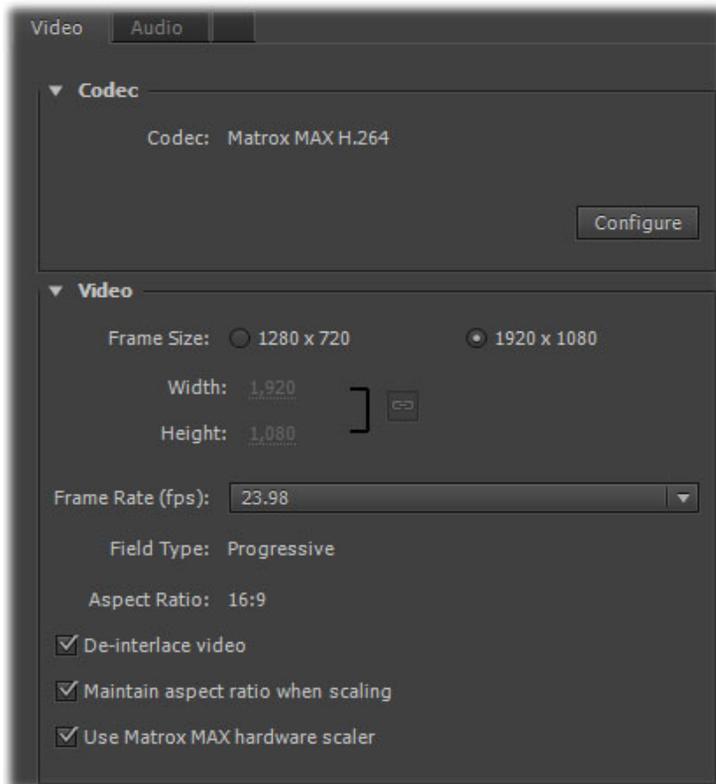


- 3 From the **Format** list, select **Matrox H.264 Blu-ray**, and from the **Preset** list, select the preset that matches the video format you want for the transcoding. Appropriate video and audio settings are automatically set based on your selected preset.



**Note** Only Matrox presets that are compatible with your project's settings will be available. The Matrox presets transcode video to Matrox *.264* files and audio to *.wav* files. If you want to transcode *.wav* files that you've imported to Adobe Encore, you must use an Adobe preset.

- 4 Click the **Video** tab to display the settings for your transcoded video.



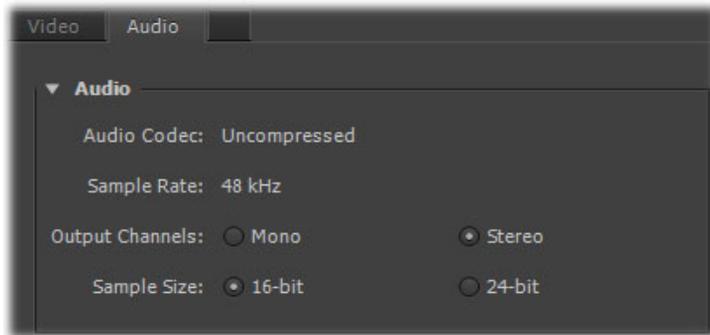
- 5 Under **Codec**, click **Configure** to customize your Matrox MAX H.264 codec settings as explained in [“Specifying your Matrox MAX H.264 settings”](#) on page 19.

**Tip** You can check the **Estimated File Size** at the bottom of the dialog box to determine the approximate file size of your transcoded material based on your currently selected settings. If needed, you can change your Matrox MAX H.264 settings to better meet your file size requirements, such as by selecting a different encoding type and lower data rate.

- 6 Under **Video**, you can customize the settings that you want for your transcoded video:
- **Frame Size** Sets the width and height for your transcoded video.
  - **Frame Rate** Sets the frame rate for your transcoded video.
  - **Field Type** Indicates the order in which the video fields are displayed, such as **Upper First** for interlaced HD video, or **Progressive** for all progressive video formats.

- **Aspect Ratio** This is set to **16:9**.
- **De-interlace video** If you're transcoding interlaced video to a progressive format (such as 1080i to 720p), select this option to de-interlace the video for display on a monitor that displays lines progressively, such as an LCD or computer monitor. (This option won't be present if you're transcoding to an interlaced format or your source video is progressive.)
- **Maintain aspect ratio when scaling** Select this option if you're scaling your source video for transcoding, and you want to maintain your source video's aspect ratio. Your source video will be transcoded as pillarbox video when transcoding SD video to HD for Blu-ray Disc authoring. If this option is not selected, scaled video that doesn't match the specified aspect ratio will be transcoded as anamorphic video.
- **Use Matrox MAX hardware scaler** When scaling your source video for transcoding to HD for Blu-ray Disc, it's recommended that you select this option to use the Matrox MAX hardware scaler to perform the scaling.

7 Click the **Audio** tab to display the settings for your transcoded audio.



- 8 Under **Audio**, you can customize the settings that you want for your transcoded audio:
- **Audio Codec** This is set to **Uncompressed**.
  - **Sample Rate** This is set to **48 kHz**.
  - **Output Channels** Specifies the audio channels to be transcoded.
  - **Sample Size** You can select **16-bit** or **24-bit**.
- 9 Click **OK** to save your settings. If you changed any of the preset settings, you'll be prompted to name the preset.
- 10 Right-click the asset that you want to transcode in the **Project** panel, and choose **Transcode Now** to start the transcoding.

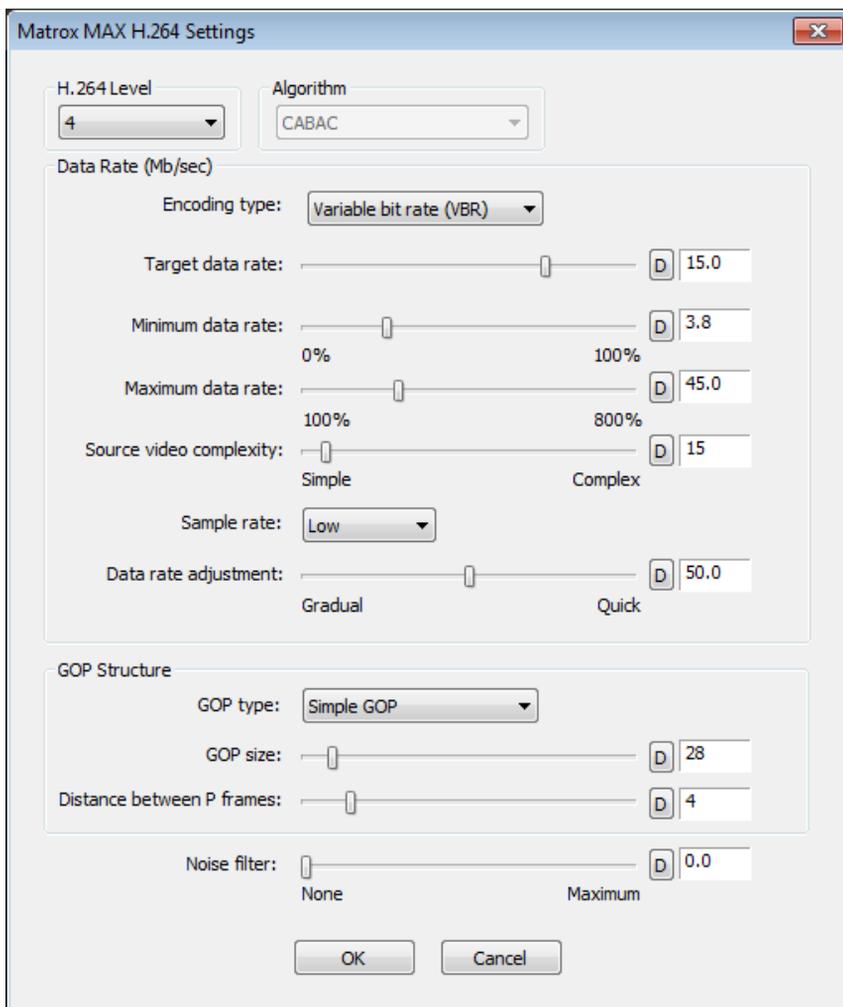
For more information about using Adobe Encore and specifying transcode settings, see your Adobe Encore documentation.

## Specifying your Matrox MAX H.264 settings

When creating Matrox MAX H.264 files (Matrox .264 or .mp4 files), appropriate codec settings are applied based on the Matrox preset you selected. If needed, you can customize the settings that you want for the H.264 compression.

### ⇒ To select your Matrox MAX H.264 settings:

- 1 Click the **Configure** button provided for the Matrox MAX H.264 codec settings.



The screenshot shows the "Matrox MAX H.264 Settings" dialog box. It is divided into several sections:

- H.264 Level:** A dropdown menu set to "4".
- Algorithm:** A dropdown menu set to "CABAC".
- Data Rate (Mb/sec):**
  - Encoding type:** A dropdown menu set to "Variable bit rate (VBR)".
  - Target data rate:** A slider with a value of 15.0.
  - Minimum data rate:** A slider with a value of 3.8.
  - Maximum data rate:** A slider with a value of 45.0.
  - Source video complexity:** A slider with a value of 15.
  - Sample rate:** A dropdown menu set to "Low".
  - Data rate adjustment:** A slider with a value of 50.0.
- GOP Structure:**
  - GOP type:** A dropdown menu set to "Simple GOP".
  - GOP size:** A slider with a value of 28.
  - Distance between P frames:** A slider with a value of 4.
- Noise filter:** A slider with a value of 0.0.

At the bottom of the dialog are "OK" and "Cancel" buttons.

- 2 Under **H.264 Level**, select the H.264 level that you want for your encoded video. The available levels depend on your encoded video's frame size and frame rate.

H.264 level	Maximum frame size	Maximum frame rate (fps)	Maximum data rate (Mb/sec)
2.0	352×288	29.97	2
3.0	720×576	29.97	10
3.1	1280×720	29.97	14
4.0	1920×1080	29.97	20
4.1	1920×1080	29.97	50
4.2	1920×1080	59.94	50

### Remarks

- Use H.264 level 4.0 if you want to create Matrox MAX H.264 files intended for mass replication of Blu-ray Discs. You can use either level 4.0 or 4.1 if you want to author and burn individual copies that are compatible with Blu-ray Disc players.
  - Use H.264 level 3.1 to create HD video for use with Apple iPad.
- 3 Under **Algorithm**, select the entropy coding method to be used during compression:
- **CABAC** Encodes the video stream using the H.264 Main profile. This is the only method available for Matrox *.264* files.
  - **CAVLC** Encodes the video stream using the H.264 Baseline profile. This method is recommended when creating Matrox *.mp4* files at small frame sizes, such as for Apple iPhone devices or the web.
- 4 Under **Data Rate (Mb/sec)**, you can select the encoding type and various data rate settings for the H.264 compression.
- **Encoding Type** From this list, select one of the following:
    - **Variable bit rate (VBR)** Video is compressed at varying data rates based on the complexity of the video and your specified minimum and maximum data rates. The Matrox MAX H.264 codec analyzes and encodes each frame to deliver the highest possible quality at your target data rate.
    - **Constant bit rate (CBR)** Video is compressed at your specified target data rate, which is useful when you need to limit or predict the size of your video file. However, if your video is very complex (such as scenes with many colors, sharp edges, or transitions), you'll need to

specify a high target data rate to avoid having frames of blocky video in your file.



**Note** When creating Matrox .264 files for Blu-ray Disc authoring, it's recommended that you use a constant bit rate.

- **Target/Minimum/Maximum data rate** Use these sliders to select your desired data rate. The higher the target data rate you select, the better the video quality will be. Only the **Target data rate** will be available if you selected **Constant bit rate (CBR)**. If you selected **Variable bit rate (VBR)**, all three sliders will be available so that you can set the target, minimum, and maximum data rates for the video compression.



**Note** When customizing the settings for a Matrox .264 file, be aware that Matrox .264 files that have a data rate higher than about 30 Mb/sec may require transcoding in Adobe Encore. The maximum H.264 level and data rate accepted by Adobe Encore for Blu-ray Disc authoring with audio and video is level 4.1 at 35 Mb/sec.

- **Source video complexity** (Variable data rate only) Specifies the complexity level of your source video. A complex video can be defined as containing scenes with many colors, sharp edges, or transitions. The Matrox MAX H.264 codec uses this setting to determine how much compression is required in order to deliver high-quality video at your specified target data rate. The default setting (15) is suitable for most moderately complex videos. For simpler or more complex videos, you may need to adjust this setting to obtain the highest-quality encoding possible while respecting your target data rate. If the size of your encoded video is good but the quality can be improved, lower the complexity level setting. Your video will then be encoded with less compression. If the quality of your encoded video is good but the size is larger than expected, raise the complexity level setting. Your video will then be encoded with more compression. In any case, you may need to try different settings to get your desired results.
- **Sample rate** Determines how frequently the Matrox MAX H.264 codec verifies the current data rate while encoding and compares it to your selected target data rate. If a discrepancy exists between the current and target data rates, the current data rate is adjusted as specified by the **Data rate adjustment** setting (see below).
- **Data rate adjustment** When the current encoding data rate does not match your specified target data rate, this setting determines how quickly the current data rate is adjusted to reach the target data rate. A gradual adjustment produces smoother transitions than a quick adjustment.

5 Under **GOP Structure**, select the GOP structure that you want to be used to encode your video:

- **GOP type** Select one of the following GOP types (can be changed for CABAC encoding only):
  - **Simple GOP** Offers a fixed structure in how frames are referenced, and may be more easily decoded than advanced GOPs. This is the recommended GOP type when creating Matrox .264 files for Blu-ray Disc authoring.
  - **Advanced GOP (short/long)** An advanced GOP has more structural flexibility than a simple GOP, is capable of using more reference frames, and therefore may provide better overall compression. For a “short” advanced GOP, the distance between P frames is always 4, and for a “long” advanced GOP, the distance between P frames is always 8. Advanced GOPs may not be compatible with some Blu-ray Disc players, and may cause stability issues in Adobe Encore when burning a Blu-ray Disc.



**Note** The GOP type provides standard default values for the GOP size and the distance between P frames. You can change these default values as explained below.

- **GOP size** Drag the slider to select the number of frames in the GOP (must be a multiple of the distance between P frames). When creating a Matrox .264 file for Blu-ray, the GOP size must be less than one second of video. For example, if the frame rate for your encoded video is 29.97 fps, the GOP size must be 29 frames or less.
  - **Distance between P frames** Drag the slider to select the number of frames between P frames in the GOP (can be changed for a simple GOP only).
- 6 Drag the **Noise Filter** slider to set the level of noise filtering that you want to apply to your video before encoding. Increasing the noise filter level reduces the amount of high frequencies in your source video by softening the high-detail portions of your video. Since high frequencies require more bits to encode, increasing the noise filter level leaves more bits available for the encoding of other frames, which can improve the overall quality of your encoded video. However, if you lose too much detail in your encoded video you may need to decrease the noise filter level.
- 7 Click **OK** to save your settings.

# 4

## Monitoring Your Matrox CompressHD System

This chapter explains how to use the Matrox X.info program to display important details about your Matrox CompressHD system and installed hardware.

## Using X.info to display CompressHD information

The Matrox X.info program lets you display information about your Matrox CompressHD system and installed hardware, and provides warnings when certain problems arise, such as when the temperature of your CompressHD card exceeds the maximum operating temperature.

Matrox X.info runs continuously to monitor your system, whenever your computer is turned on and CompressHD is installed. You can open Matrox X.info to display system and hardware details by double-clicking the  icon on your Windows taskbar.



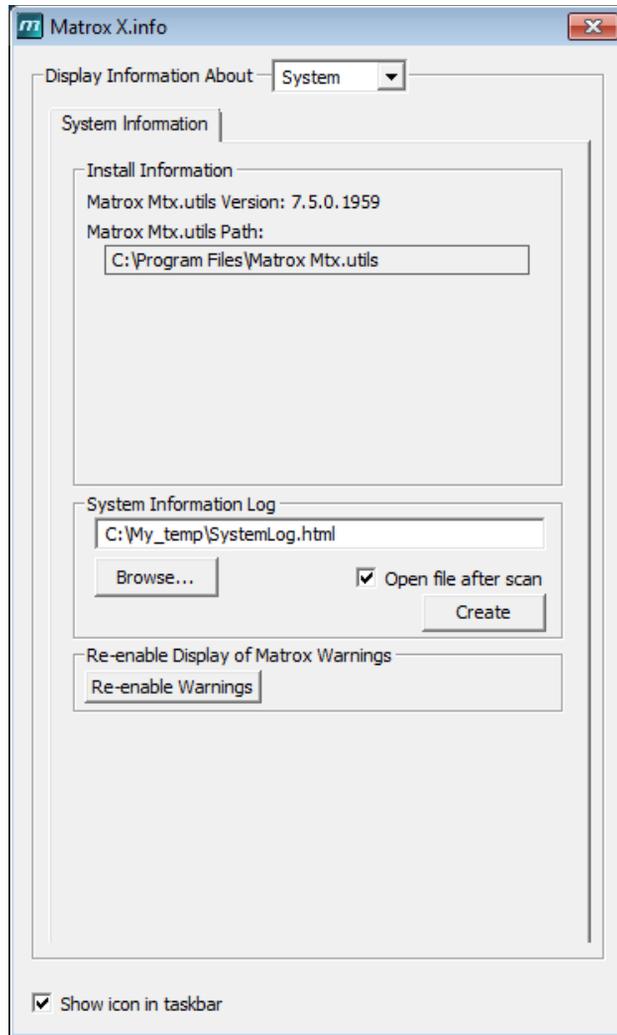
**Note** If you do not see the icon, check your taskbar properties and make sure that you're showing the icon for Matrox X.info.

### Displaying system information

To display information about your Matrox CompressHD system, select **System** from the **Display Information About** list. On this page, you can see **Install Information**, such as the install path and version of Matrox Mtx.utils.

You can also create an HTML log file of your system information, which can be useful for troubleshooting. To create this log, use the **Browse** button under **System Information Log** to select the path and name of the log, then click

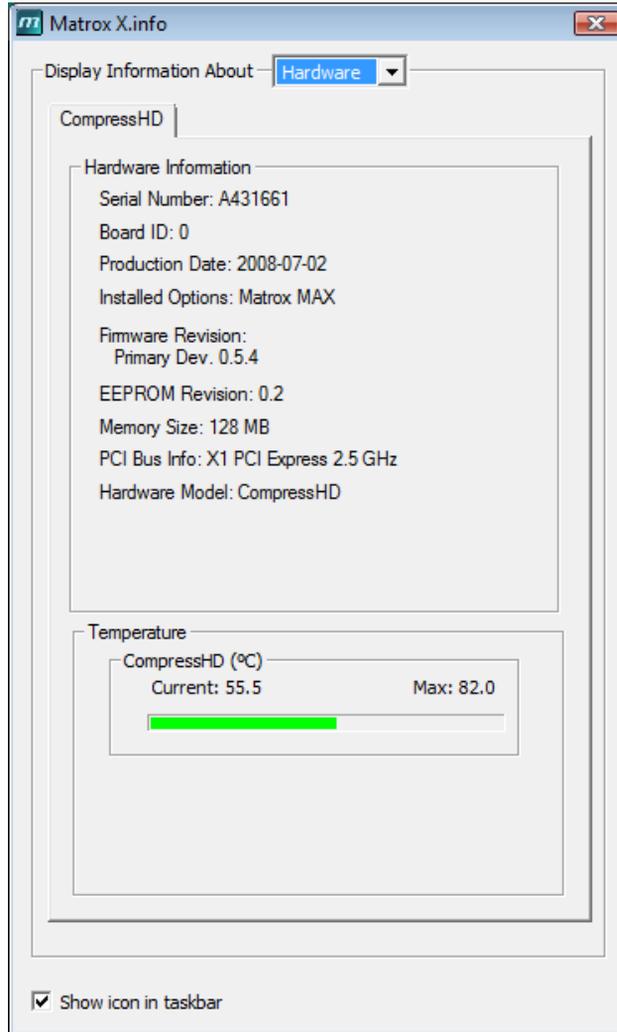
**Create.** If **Open file after scan** is selected, the HTML system log opens after it is created.



If you had previously turned off certain Matrox warnings and want them to be re-enabled, click **Re-enable Warnings**. For example, some Matrox warnings provide an option to turn off the warning (that is, you can select **Don't display this message again**). Clicking **Re-enable Warnings** allows these warnings to be displayed again.

## Displaying hardware information

To display information about your Matrox CompressHD hardware, select **Hardware** from the **Display Information About** list. This displays a page with hardware information (for example, serial number and production date). You can also monitor the current and maximum operating temperatures for your CompressHD card.



**Important** Whether or not you have opened Matrox X.info, if your CompressHD card exceeds the maximum operating temperature, you'll receive a warning message with further instructions as explained in the section [“Error notification”](#) on page 27.

## Monitoring your CompressHD card's operating temperatures

As shown in the X.info **Hardware** section, the **CompressHD** page displays the current and maximum operating temperatures for your Matrox CompressHD card. To avoid damage to your CompressHD system, make sure that you don't operate your CompressHD card at or near the maximum temperature for a prolonged period of time. You should target your CompressHD card to operate at least 10°C below the maximum operating temperature.

You should monitor the temperature of your CompressHD card periodically and take measures as needed to lower the room temperature and/or improve the ventilation in your CompressHD system. If needed, move your CompressHD card to a PCIe slot in your computer that is not too close to another card that generates heat, such as a display card.

## Error notification

X.info provides temperature warnings and warnings for other possible CompressHD hardware problems. Once X.info has detected a hardware problem, the **Matrox X.info Notification** dialog box will be displayed to give you details of the problem and further instructions. You will not be able to close this dialog box until the problem has been resolved.

## Your notes

# A

## **Matrox CompressHD Specifications**

This appendix provides specifications for the Matrox CompressHD card.

## Matrox CompressHD card specifications

- Standard low-profile half-length PCIe (x1) card
- PCB dimensions:
  - 168 mm × 63.5 mm (6.6" × 2.5")
  - overall thickness including components: 13 mm (0.5")
- Regulatory compliance:
  - FCC Class B, CE Mark Class B, and ACMA Class B
  - RoHS Directive 2002/95/EC
- Typical operating voltages and current consumption

<b>Voltage</b>	<b>+3.3 V</b>	<b>+12 V</b>
Current	3.0 A	0 A

Total power consumption: 10 watts

- Minimum/maximum ambient operating temperatures: 0 to 40° C
- Minimum/maximum storage temperature: –40 to 75° C
- Maximum altitude for operation: 3,000 meters
- Maximum altitude for transport: 12,000 meters
- Operating humidity: 20 to 80% relative humidity (non-condensing)
- Storage humidity: 5 to 95% relative humidity (non-condensing)

# B

## **Matrox Customer Support**

This appendix explains how you can register your Matrox product and obtain customer support.

## How to get Matrox customer support

If you have a problem that you're unable to solve by referring to the documentation for your Matrox product, please contact your Matrox representative. He or she should be able to help you quickly correct any installation or system configuration problem.

If your representative is unable to solve your problem, contact Matrox for further information and assistance.

### Registration

You can register your Matrox product in the Matrox Support section of our website at [www.matrox.com/video/support](http://www.matrox.com/video/support).

Only registered users are entitled to customer support, software updates, special promotional offers, and access to our user forum.

### Keep up to date with our website

In addition to registering your Matrox product, our website offers you up-to-the-minute information about Matrox products and software updates. Be sure to place our site in your favorites or bookmarks:

[www.matrox.com/video/support](http://www.matrox.com/video/support).

### Contacting us

Matrox is proud to offer worldwide customer support. Please use the contact information for your Matrox product and area as provided on our website at [www.matrox.com/video/support](http://www.matrox.com/video/support).

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# Compliance Statements



## USA

### FCC Compliance Statement

**Remark for the Matrox hardware products supported by this guide** These devices have 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 against harmful interference in a residential installation. This equipment generates, uses and can radiate 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 causes 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.

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

### Declaration of conformity of a Class B digital device according to the FCC rules

**We, the Responsible Party** Matrox, 625 State Route 3, Unit B, Plattsburgh, NY 12901-6530 • Telephone: (514) 822-6000 (ext. 2026) • Attention: Conformity Group

**Declaration** The Matrox hardware products supported by this guide comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) these devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation. Any question regarding this declaration should be forwarded to the above coordinates.

## Canada

### (English) Industry Canada Compliance Statement

CAN ICES-3 (B)/NMB-3 (B)

**Remark for the Matrox hardware products supported by this guide** These digital devices do not exceed the Class B limits for radio noise emission from digital apparatus devices set out in the Radio Interference Regulation of Industry Canada.

### (Français) Conformité avec les exigences du ministère de l'Industrie Canada

CAN ICES-3 (B)/NMB-3 (B)

**Remarque sur les produits matériels Matrox couverts par ce guide** Ces appareils numériques n'émettent aucun bruit radioélectrique dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par Industrie Canada.

## Japan

### VCCI Compliance Statement

**Remark for the Matrox hardware products supported by this guide** These are Class B products based on the standard of the Voluntary Control Council (VCCI) for Interference from Information Technology Equipment (VCCI). If these are used near a radio or television receiver in a domestic environment, they may cause radio interference. Install and use the equipment according to instructions in the manual.



この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

## Europe

### (English) European user's information – Declaration of Conformity

**Remark for the Matrox hardware products supported by this guide** These devices comply with EC Directive 2006/95/EC for a Class B digital device. They have been tested and found to comply with EN55022/CISPR22 and EN55024/CISPR24. In a domestic environment these products may cause radio interference in which case the user may be required to take adequate measures. These products have been tested in a typical class B compliant host system. It is assumed that these products will also achieve compliance in any class B compliant system.



### (Français) Informations aux utilisateurs Européens – Déclaration de conformité

**Remarque sur les produits matériels Matrox couverts par ce guide** Ces unités sont conformes à la directive communautaire 2006/95/EC pour les unités numériques de classe B. Les tests effectués ont prouvé qu'elles sont conformes aux normes EN55022/CISPR22 et EN55024/CISPR24. Le fonctionnement de ces produits dans un environnement résidentiel peut causer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre les mesures appropriées. Ces produits ont été testés dans un système hôte typique compatible classe B. On suppose qu'ils présenteront la même compatibilité dans tout système compatible classe B.

### (Deutsch) Information für europäische Anwender – Konformitätserklärung

**Anmerkung für die Matrox Hardware-Produktunterstützung durch dieses Handbuch** Diese Geräte entsprechen EC Richtlinie 2006/95/EC für ein digitales Gerät Klasse B. Sie wurden getestet und entsprechen demnach EN55022/CISPR22 und EN55024/CISPR24. In einer Wohnungsumgebung können diese Produkte Funkinterferenzen erzeugen, und der Benutzer kann genötigt sein, entsprechende Maßnahmen zu ergreifen. Diese Produkt wurden in einem typischen, der Klasse B entsprechenden, Host-System getestet. Es wird davon ausgegangen, daß diese Produkte auch in jedem Klasse B entsprechenden System entsprechend funktionieren.

### (Italiano) Informazioni per gli utenti europei – Dichiarazione di conformità

**Nota per i prodotti hardware Matrox supportati da questa guida** Questi dispositivi sono conformi alla direttiva CEE 2006/95/EC relativamente ai dispositivi digitali di Classe B. Sono stati provati e sono risultati conformi alle norme EN55022/CISPR22 e EN55024/CISPR24. In un ambiente domestico, questi prodotti possono causare radiointerferenze, nel qual caso all'utente potrebbe venire richiesto di prendere le misure adeguate. Questi prodotti sono stati provati in un tipico sistema host conforme alla classe B. Inoltre, si dà per scontato che questi prodotti acquisiranno la conformità in qualsiasi sistema conforme alla classe B.

### (Español) Información para usuarios europeos – Declaración de conformidad

**Observación referente a los productos de hardware de Matrox apoyados por este manual** Estos dispositivos cumplen con la directiva de la CE 2006/95/EC para dispositivos digitales de Clase B. Dichos dispositivos han sido sometidos a prueba y se ha comprobado que cumplen con las normas EN55022/CISPR22 y EN55024/CISPR24. En entornos residenciales, estos productos pueden causar interferencias en las comunicaciones por radio; en tal caso el usuario deberá adoptar las medidas adecuadas. Estos productos han sido sometidos a prueba en un típico sistema anfitrión que responde a los requisitos de la clase B. Se supone que estos productos cumplirán también con las normas en cualquier sistema que responda a los requisitos de la clase B.



[www.matrox.com/video](http://www.matrox.com/video)