

CyberLink

ColorDirector

User's Guide



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Chapter 1:

Introduction

This chapter introduces CyberLink ColorDirector and provides an overview of all its features. It also outlines the system requirements for installing and using the CyberLink ColorDirector program.



Note: this document is for reference and informational use only. Its content and the corresponding program are subject to change without notice.

Welcome

Welcome to the CyberLink family of digital media tools. CyberLink ColorDirector is a video editing program that turns your video footage into eye-catching movies through the use of video color creating and correcting. You can then render the videos for use in other editing programs, or for upload to YouTube and Vimeo.

Latest Features

This section outlines the latest features within the CyberLink ColorDirector program.

- Greater program performance and faster editing times with the latest TrueVelocity engine.
- Helpful timeline markers for more precise color creating and correcting using keyframes.
- Improved program usability with library sorting and auto straight line control when creating selection masks.
- Creative Split Toning feature to produce color effects on the video image or to add color to black and white videos.
- Support for additional color look-up table (CLUT) file formats to ensure all video clips have the same look.
- Add vignetting effects to video clips, or use the Tint Filter to apply different mono-tone colors on your videos.
- Output video clips in the H.265 (HEVC) and .MKV video formats.
- Back up your presets, program preferences, video clips, and more with the


CyberLink Cloud storage service.

DirectorZone and CyberLink Cloud

You can upload/download color presets, and back up media, preferences, projects, and more with the DirectorZone and CyberLink Cloud features.

DirectorZone

DirectorZone is a web service that lets you download adjustment presets created by other users, so you can use them on your videos. You may also share your own custom presets by uploading them to DirectorZone.

To access the benefits of DirectorZone, you can sign in by clicking the  button at the top of the window to open the ColorDirector preferences, and then on the **DirectorZone** tab. See [DirectorZone Preferences](#) for more information.

Go to <http://directorzone.cyberlink.com> to view more information on the features and benefits of the DirectorZone web site.

CyberLink Cloud

CyberLink Cloud is a cloud storage service from CyberLink where users can upload and download their presets, ColorDirector projects, produced video clips, and more. CyberLink Cloud allows users to back up media, preferences, projects, etc., and ensure their working environment is the same on multiple computers.



Note: *CyberLink Cloud is a subscription cloud storage service that is included with some CyberLink products, and is available for purchase through our web site. For more detailed information, see <http://www.cyberlink.com/products/cyberlink-cloud/>.*

ColorDirector Versions

The features that are available in CyberLink ColorDirector are completely dependent on the version you have installed on your computer.

Click the CyberLink ColorDirector logo in the top right, or select **Help > About CyberLink ColorDirector** from the menu, to determine the version and build number for your copy of CyberLink ColorDirector.

ColorDirector Live

ColorDirector Live is a subscription based version of CyberLink ColorDirector that provides all the editing and color correcting features you expect, and adds the CyberLink Cloud storage service and more.

With a ColorDirector Live subscription, you get:

- All the advanced video color grading features of the Ultra version of CyberLink ColorDirector, including the production of 4K ultra HD video.
- The ability to back up program preferences, projects, custom output profiles, and presets on the cloud storage space CyberLink Cloud.
- Guaranteed updates to the latest versions of CyberLink ColorDirector Ultra.

ColorDirector Live is the must-have solution for on-the-go video editors who want easy access to their media and the latest up-to-date editing technologies.


Updating ColorDirector

Software upgrades and updates (patches) are periodically available from CyberLink. CyberLink ColorDirector automatically prompts you when either is available.



Note: *you must connect to the Internet to use this feature.*

To update your software, do this:

1. Open the Upgrade Information window by doing one of the following:
 - click the  button.
 - click on the ColorDirector logo in the top right corner, and then on the **Upgrade** button in the About ColorDirector window.
2. Click the feature you would like to upgrade to, or the patch you want to update CyberLink ColorDirector with.
3. A web browser window opens, where you can purchase product upgrades or download the latest patch update.

System Requirements

The system requirements listed below are recommended as minimums for using the CyberLink ColorDirector program.

System Requirements	
CPU Processor	<ul style="list-style-type: none"> Intel® Pentium® 4 or AMD Athlon® 64 processor (Intel Core™ i3, i5, or i7 or AMD Phenom® II recommended). 2K/4K video editing profile: Intel Core i7 or AMD Phenom II X4 with 64 bit OS (6 GB RAM).
Screen Resolution	<ul style="list-style-type: none"> 1024 X 768, 16-bit color or above.
Operating System	<ul style="list-style-type: none"> Microsoft Windows 8/8.1 (32 bit and 64 bit). Microsoft Windows 7 Home Basic, Home Premium, Professional, Ultimate (32 bit and 64 bit). Microsoft Windows Vista Home Basic, Home Premium, Business, Ultimate (32 bit and 64 bit).
Memory	<ul style="list-style-type: none"> 1 GB DDR2 required. 3 GB DDR2 or above recommended for 32 bit OS. 6 GB DDR2 or above recommended for 64 bit OS. 6 GB DDR2 RAM is must for 2k/4k video editing.
Graphics Card	<p>NVIDIA:</p> <ul style="list-style-type: none"> GeForce 8500GT and above GeForce 9800GT and above GeForce GT/GTS/GTX 200 series GeForce GT/GTS/GTX 400 series GeForce GT/GTS/GTX 500 series GeForce 600/600M Series GeForce 700M Series <p>AMD/ATI:</p> <ul style="list-style-type: none"> ATI Radeon™ HD 2600 series ATI Radeon™ HD 2900 series ATI Radeon™ HD 3000 series ATI Radeon™ HD 4000 series ATI Radeon™ HD 5000 series AMD Radeon™ HD 6000 series

	<ul style="list-style-type: none">• AMD Radeon™ HD 7000 series• AMD Radeon™ HD 8000 series
Hard Disk Space	<ul style="list-style-type: none">• 1 GB of disk space for application and documentation.
Internet Connection	<ul style="list-style-type: none">• Required for program activation and other online services.

Chapter 2:

Importing Videos

The first step when using CyberLink ColorDirector is to import your videos into the program library. You can import videos one by one, or import the entire contents of a folder into CyberLink ColorDirector.

Supported File Formats

CyberLink ColorDirector supports the following video file formats:

Videos: AVI, FLV (H.264), M2TS (H.264 AVC, H.265 HEVC), MKV (H.264 AVC, H.265 HEVC), MOD, MPEG-1, MPEG-2, MPEG-4 (H.264 AVC, H.265 HEVC), TOD, VOB (with Dolby Digital 2ch or 5.1ch), VRO (with Dolby Digital 2ch or 5.1ch), WMV.




CyberLink ColorDirector also supports Canon & Nikon DSLR video files.

Importing Videos into the Program

You can import videos into CyberLink ColorDirector from your computer's hard drive, and from removable devices, such as memory cards and portable hard drives.

To import videos into CyberLink ColorDirector, do this:

1. Click on **Library**, and then on one of the following import options:

-  - select to import individual video files. Once selected, browse to and then select all of the videos on your computer/removable device that you want to import, and then click **Open**.
-  - select to import a folder that contains your videos. Once selected, browse to and then select the folder on your computer/removable device that you want to import videos from, and then click **Select Folder**.
-  - select to download video files you previously uploaded to CyberLink Cloud. See [Downloading Videos from CyberLink Cloud](#) for more information.

2. CyberLink ColorDirector imports the video files into the library.




Note: you can also drag and drop video files onto the CyberLink ColorDirector window to import them into the program.

Downloading Videos from CyberLink Cloud

If you have a CyberLink Cloud subscription you can download videos from your CyberLink Cloud storage directly into the library.

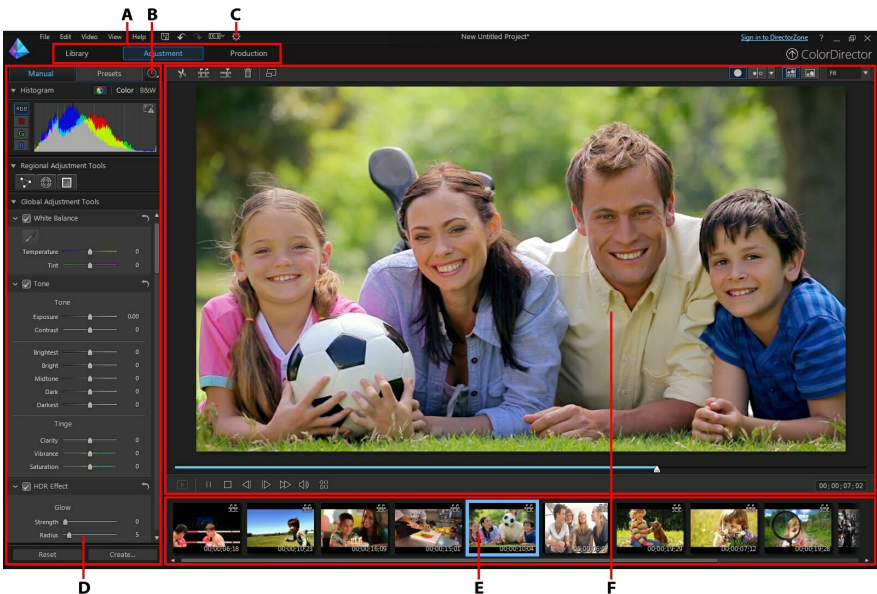
To download videos from CyberLink Cloud, do this:

1. Click on the **File** menu item and then select **Download Media from CyberLink Cloud**. You can also click the  button in the library panel.
2. Browse to and then select all the video files you want to download.
3. Click on the **Download** button. CyberLink ColorDirector downloads the selected files and then imports them into the library.

Chapter 3:

The ColorDirector Workspace

This chapter outlines the CyberLink ColorDirector workspace, and all of its features. Getting familiar with the workspace is helpful, because it is where you spend all of your time when using CyberLink ColorDirector.



A - ColorDirector Modules, B - Keyframe Settings Panel, C - ColorDirector Preferences, D - Library/ Adjustment/Production Panel, E - Storyboard Panel, F - Video Viewer Window

ColorDirector Modules

CyberLink ColorDirector is comprised of three main modules: **Library**, **Adjustment**, and **Production**.

Library

Click the **Library** button to import video clips into CyberLink ColorDirector and view detailed information video file information. Once imported into the library, you can add them to the storyboard panel for adjusting and editing. See [Library Panel](#) for more information.

Adjustment

The Adjustment module is where you touch up and make adjustments to the video clips you imported into CyberLink ColorDirector. Click the **Adjustment** button to apply presets, use motion track masks and gradients, adjust video saturation, hue, white balance, and much more. See [Making Video Adjustments](#) for detailed information.

Production

Once you finish adjusting your video clips, you must render them in the Production module to apply the adjustments you made. All the video clips in the storyboard panel will be rendered into one longer video once produced in the Production module. For more detailed information see [Production](#).

Library/Adjustment/Production Panel

The panel on the left side of the CyberLink ColorDirector window that displays is dependent on which module of the program you are in. The following outlines each of the panels and some of the available features.

Library Panel

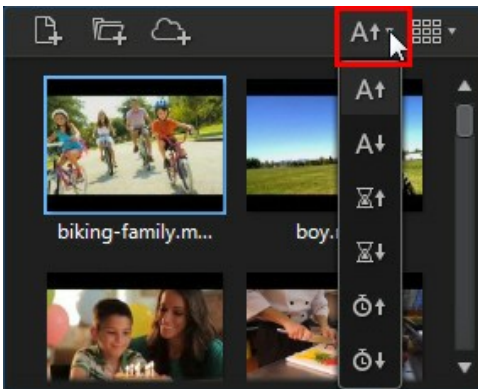
The library panel is where you import all of the video clips into CyberLink ColorDirector. It also provides access to the metadata information for each individual video clip. You can double-click on any video clip in the library to begin playing it in the preview window.

Importing Videos

You can import video files individually or by importing all the videos in a specific folder. See [Importing Videos](#) for detailed information.

Sorting Videos in the Library

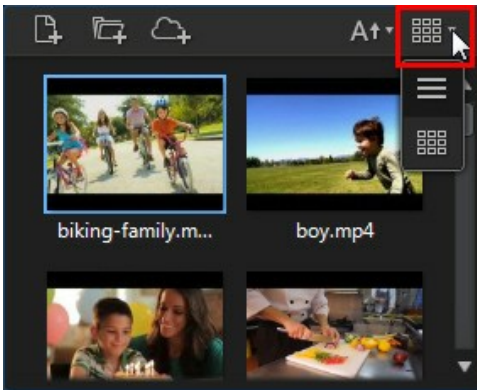
You can easily sort the videos in the ColorDirector library by selecting a sort option from the list.





You have the option of sorting the videos in ascending or descending order by file name, duration, or the date the videos were created.

Setting Library View

If required you can change the library view to fit your personal preference. By default the video clips in the library display in thumbnail view, but you can click the button in the top right corner of the library panel to change the view.



Select to  view the video clips by file name. Select  to view them by their video thumbnails.



Note: you can click and drag on the divider between the clips library and video information for a larger view of the clips in the library.


Video Information

When you select video clips in the library, CyberLink ColorDirector displays each clip's detailed information in the library panel. Included in the information is video and audio codec information, file size and type, video resolution, frame rate, aspect ratio, and more.

Adding Video Clips to the Storyboard

Once you have video clips in the library, you must add them to the storyboard to make adjustments and edit them. You can adjust and produce them one at a time, or add multiple video clips that are merged into a longer video.

To add a video clip to the storyboard, do either of the following:

- drag it from the library to the storyboard.
- select it in the library and then click  on its thumbnail.


Adjustment Panel

The adjustment panel displays when in the Adjustment module and contains all of the tools you use to color correct and adjust your videos. See [Making Video Adjustments](#) for a detailed description of the all the tools available on the adjustment panel.

Production Panel

When in the Production module, you can set produce preferences in the production panel before rendering your adjusted video clips. See [Producing Videos](#) for detailed information about the controls on the production panel.

Keyframe Settings Panel

When in the Adjustment module, click on the **Manual** tab and then the  button to display the keyframe settings panel. You can use keyframes when adjusting your video clips to define the start and end points of the applied changes.

See [Utilizing Keyframes](#) for more detailed information on this feature.

Storyboard Panel

The storyboard panel is where the videos you want to adjust are located.



A - Video Clips, B - Scene Detection

Select a video in the storyboard panel to display it in the video viewer window for playback and adjustment.






Note: *all the video clips in the storyboard panel will be rendered into one longer video once produced in the Production window. If you do not want the video clips rendered together, you must add each of them to the storyboard separately, and then adjust and produce them one by one.*

While browsing through video clips in the storyboard panel, you can:

- rearrange the order of the video clips in the storyboard panel, just select it in the panel and then drag it to the new position.



- remove a clip from the storyboard panel, right-click on it and then select **Remove**. You can also remove multiple video clips at once by holding down the Ctrl key on your keyboard, selecting the clips in the panel, and then clicking the  button at the top of the video viewer window.
- right-click on a video clip in the storyboard panel and then select **Open File Location** to view the file in Windows Explorer.
- a video clip thumbnail with the  icon in the storyboard indicates that adjustments were made on the clip.
- click on the  icon in a video clip's thumbnail to detect any scenes that the clip may contain. The detected scenes are added to the storyboard panel like any other video clip. See [Detecting Scenes in Video Clips](#) for more detailed information on this feature.

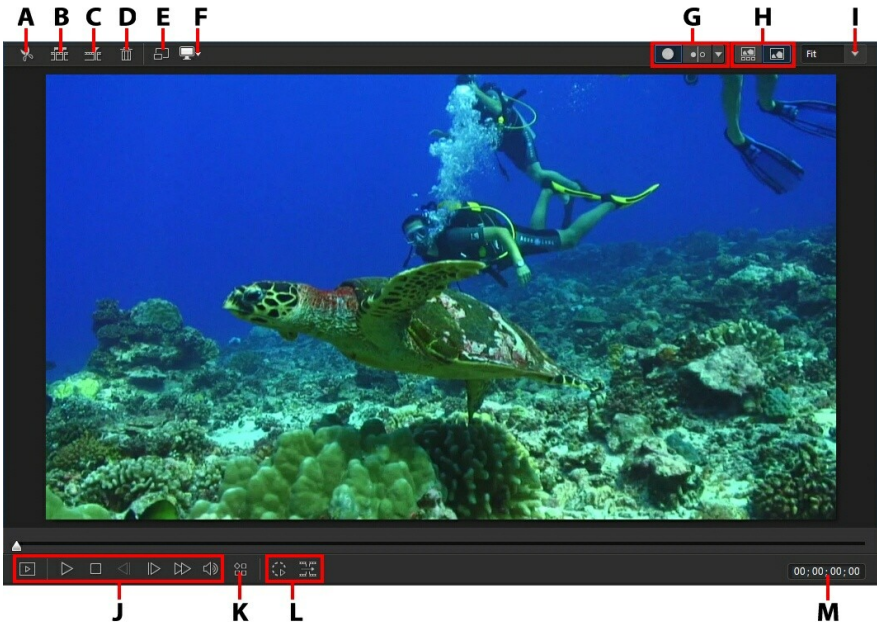


Note: you cannot detect scenes in a video clip that was previously trimmed or split.

- double-click in the video viewer canvas area to hide the storyboard panel from view and get a larger view of the current video (viewer only mode). Double-click on it again to redisplay the storyboard panel (viewer & storyboard mode).

Video Viewer Window

The video viewer window displays a preview of the video selected in the storyboard panel. Any adjustments you make to videos are viewable this window.



A - Trim Video, B - Scene Detection, C - Split Video, D - Remove Video, E - View at Full Screen, F - Secondary Monitor Display Mode, G - Select Viewer Display Mode, H - Select View Mode, I - Viewer Zoom, J - Player Controls, K - Playback Options, L - Motion Tracking Controls, M - Video Timecode Display


Trimming Video Clips

Use the trim function to quickly trim off unwanted portions at the beginning and end of a video clip in the storyboard panel.

To trim a video clip, do this:



Note: the trim function is only available when in the Library and Adjustment modules.

1. Select the video clip in the storyboard panel you want to trim, and then click on the  button at the top of the video viewer window to open the Trim window.
2. Use the player controls to find where you want the trimmed clip to begin, or

the mark in position.

3. Click and drag the mark in and mark out indicators to positions where you want the clips trimmed.



You can also manually set the timecodes for the **In position** and **Out position** using the up and down arrows as required.

4. Click **OK** to set your changes and trim the clip as specified.

When trimming videos clips, please note:

- use the **Duration** controls if you want to trim the video clip to a specific length.
- to preview what the trimmed clip will look like, ensure **Output** is selected and then click the play button.
- if required, you can reenter the Trim window to refine the trimmed clip at any time.

Detecting Scenes in Video Clips

The scene detection function automatically detects the individual scenes (or pre-edited shots) contained within a video clip, and then separates them into multiple clips. The detected scenes are added to the storyboard panel like any other video clip.





***Note:** the detected scenes are not split from the original clip, but can be separately moved around or removed from the storyboard panel.*

To detect the scenes in a video clip, do this:





***Note:** you cannot detect scenes in a video clip that was previously trimmed or split. The detect scenes function is only available when in the Library and Adjustment modules.*

1. Select a clip it in the storyboard panel and then click the  button at the top of the video viewer window to open the Scene Detection window. You can also click the  icon on the video clip's thumbnail in the storyboard panel.
2. The scenes in the video clip are automatically detected and then displayed in


the Scenes panel.

3. Once you are done detecting the scenes in the video clip, click the **OK** button. All the separate clips that were detected are now visible in the storyboard panel.

When using scene detection, please note:

- if required, use the **Sensitivity** slider to increase or decrease scene detection sensitivity. Doing this may yield an increased or decreased number of scenes that are detected. Click **Start** to redetect the scenes in the video clip. You are asked to confirm the clearing of the previously detected clips and then the updated scenes are detected and displayed in the Scenes panel.
- click on the  button to configure the Advanced Scene Detection Settings. If the selected video clip is a DV-AVI file, you have the option to **Detect by change of video frame** (used on all other file formats) or **Detect by change of timecodes** (i.e.: time codes are automatically set when you start and stop recording). Select the **Disable preview during detection** option to speed up the detection process if you find your computer runs slow during the process.
- to stop the scene detection process before completion, click the stop button on the playback controls.
- to detect scenes manually, drag the slider (in **Clip** mode) to the beginning of each new scene and then click .
- to preview a detected scene, just select it in the Scenes panel (ensure **Scene** is selected) and then click the play button.
- to view all the detected scene markers on the clip timeline, ensure that **Clip** is selected.
- to merge two or more detected scenes into one longer scene, select them in the Scenes panel and then click **Merge**. Click **Remove All** if you want to restore the clip to the original.

Splitting Video Clips

You can quickly split a video clip that is in the storyboard panel into two separate clips. To do this, move the timeline slider (or use the player controls) to the position in the clip where you want to split it. Next, click the  button to separate it into

two clips that you can then move around and adjust separately from one another.

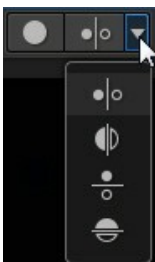


***Note:** the split function is only available when in the Library and Adjustment modules.*






You can also use it to quickly remove unwanted portions of a video clip, or if you want to insert other media between the two portions.

Selecting Viewer Display Mode


The video viewer window has several display modes that let you more easily view the adjustments made to video clips. Click the arrow next in the viewer display mode section to view all of the available display modes.



***Note:** these display mode buttons are only available when in the Adjustment module of CyberLink ColorDirector.*




-  **Show one** - shows one preview window for the selected video clip in the storyboard panel.
-  **Side by side** - select to compare adjustments to videos side by side.
-  **Split - left/right** - select to split the video, with the left half containing the original video, and the right half of the video with the adjustments applied.
-  **Top/bottom** - select to compare adjustments to videos top to bottom.
-  **Split - top/bottom** - select to split the video, with the top half containing the original video, and the bottom half of the video with the adjustments applied.

Secondary Monitor Display Mode

If you have more than one monitor connected to your computer, click the  button and then select the display mode for the secondary monitor.





Note: for this button to display, you must connect a secondary display to your computer and then enable extend desktop to a secondary display in the Windows Display Properties Settings.

-  **Mirror:** duplicates the viewer display on the secondary monitor.
-  **Alternate:** provides a secondary view of the videos you are adjusting. For example, if you are adjusting a video in side by side mode, the "After" video displays at full screen on the secondary monitor.
-  **None:** select if you don't want anything displayed on your secondary monitor.



Selecting View Mode

In the top left of the video viewer window, select one of the following view modes when browsing through and viewing videos in CyberLink ColorDirector:

-  **Viewer & Storyboard Mode** - select to display the video viewer window and the storyboard panel for easy browsing and viewing of videos.
-  **Viewer Only Mode** - select to display a larger view of the videos.



Note: you can double-click in the video viewer canvas area to hide the storyboard panel from view and get a larger view of the current video (viewer only mode). Double-click on it again to redisplay the storyboard panel (viewer & storyboard mode).

When playing back videos in the program or when making adjustments, select  to view the current video at full screen. When in full screen mode, click  to exit.

Viewer Zoom

When previewing videos in the video viewer window, use the zoom drop-down in the top right corner to set the size of the video preview.



Note: you can also hold down the **Ctrl** key on your keyboard and then use the mouse scroll wheel to zoom in or out on the video viewer window.

Select **Fit** to resize the selected video so that it fits in the viewer window.






Note: if you find that the size of the video in the video preview window seems quite small when **100%** zoom is selected, and becomes distorted after selecting **Fit**, check that the quality setting of the video is correct. See [Playback Options](#) for more information.

When you zoom in or out on a video clip, a navigation thumbnail for the viewer displays in the bottom right of the video frame. Click and drag the available box to change the focus area to suit your zooming requirements.




Video Player Controls

Select a video clip in the storyboard panel and then click the  button to begin playing it back. CyberLink ColorDirector will just play back the selected clip when the play button is clicked. If you want to play all the clips in the storyboard, click the  button to enter full screen mode, and then click  to play the whole movie.

Use the video playback controls available in the video viewer window to control playback, including pausing/stopping playback, fast forwarding videos, jumping to the previous/next frame, or adjusting the volume. You can also click and drag the playback slider to quickly go to a specific timecode in the timecode display, if necessary.

Playback Options

Click the  button to access the following playback options:


- **Quality:** select to set the quality of the video in the video viewer window. For best results it is recommended that you set this based on the quality of the original video.
- **Real-time Preview:** select one of the following preview modes:
 - **Real-time Preview:** synchronizes and renders clips and effects in real-time, displaying a preview of your video at the standard 25 (PAL)/30 (NTSC) frames per second.
 - **Non Real-time Preview:** mutes the audio and displays a preview at a reduced speed to help make editing much more fluid. Useful when editing high-definition video on a less powerful computer, or when you receive dropped frames when previewing. By muting the audio and slowing down the video, CyberLink ColorDirector lets you view more frames per second when your computer has trouble providing a smooth preview during editing.

Motion Tracking Controls

The motion tracking controls are available when on the motion tracking mask tab of the Regional Adjustment Tools. They are used when applying regional adjustments on moving objects in videos. See [Using a Motion Tracking Mask](#) for more detailed information.

Chapter 4:

ColorDirector Projects

When adjusting video clips in CyberLink ColorDirector, click the  button to save your work as a project in the .cds file format, which is used exclusively by CyberLink ColorDirector.



Note: a CyberLink ColorDirector project (.cds) file essentially contains a list of the video clips in the storyboard panel, and a log of all the edits and adjustments you want to make to them. Project files do not include the video clips in them. If you want to save all your video production files in one place, use the Pack Project Materials function. To do this select, **File > Pack Project Materials** from the menu.

Use the options in the **File** menu to save, create new, or open existing projects in CyberLink ColorDirector. If you have a CyberLink Cloud subscription you can also upload saved projects and more to CyberLink Cloud. See [CyberLink Cloud Projects](#) for more information.

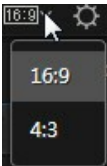


Note: when you create a new project, CyberLink ColorDirector resets your library. If you want to create a new video production using the same media current in your library, select **File > New Workspace**.

The changes you make to your video clips in CyberLink ColorDirector do **not** affect the original videos you imported into the program. Since your edits are all saved in the project file, you can trim and make adjustments to your clips, but still keep your original files on your hard drive, untouched. So let yourself get creative. If you end up changing things too drastically, you can always start over.

Setting Project Aspect Ratio

To set the aspect ratio for your project, select **4:3** or **16:9** from the aspect ratio drop down at the top of the window.



The video viewer window changes according to the aspect ratio you select.

Exporting Projects

You can export your CyberLink ColorDirector projects by packing all the materials in a folder on your computer's hard drive or CyberLink Cloud*. Exported projects can then be imported into another computer running CyberLink ColorDirector.

To export your project, select **File > Pack Project Materials**. If you have a CyberLink Cloud subscription you can select **File > Pack Project Materials and Upload to CyberLink Cloud** to back it up in a folder on CyberLink Cloud.

CyberLink Cloud Projects

If you have a CyberLink Cloud subscription you can select **File > Upload Project to CyberLink Cloud** to store project files on CyberLink Cloud.

To open a project that was saved on CyberLink Cloud, including projects that were packed in a folder with their media (materials), select **Download Project from CyberLink Cloud** from the **File** menu or in the Welcome window. In the window that displays, select a project and then click **Download**.



***Note:** when you open a packed project stored on CyberLink Cloud, the project file and all the project media is downloaded to your local computer and stored in the download folder specified in [CyberLink Cloud Preferences](#)*

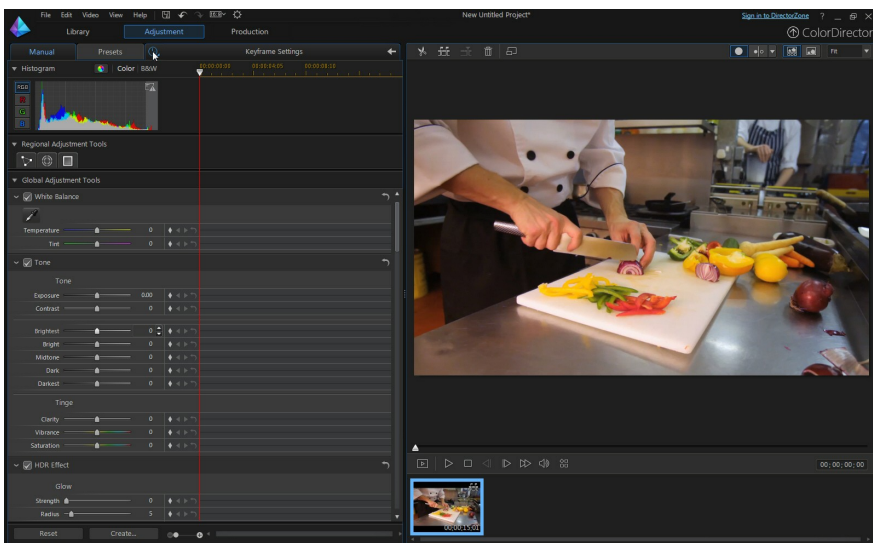
Chapter 5:

Utilizing Keyframes

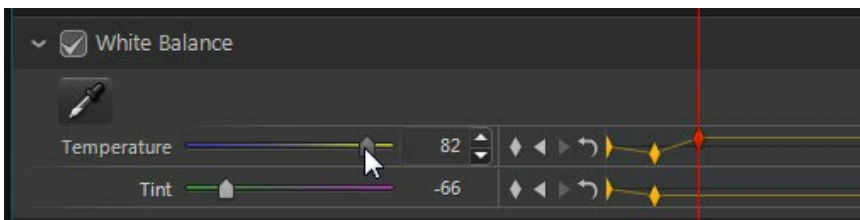
By default when you are color correcting and adding color grading on video clips, the adjustments are applied to every single frame in the video, i.e. the entire video clip. However, you can use keyframes to only apply the adjustments on just the frames of video you want modified, by defining the start and end points in the keyframe settings panel.

When in the Adjustment module, click  to open the keyframe settings panel.






You can use keyframes to define the start and end points of every type of adjustment in CyberLink ColorDirector, giving you full control over the process. Every adjustment item has keyframe controls for the timeline in the keyframe settings panel.



To use keyframes when making adjustments to video clips, do this:

1. Select the video clip in the storyboard and then click the  button to display the keyframe settings panel.
2. Use the keyframe timeline to find the frame in your video clip where you want the adjustments to begin and end. See [Keyframe Timeline](#) for more information.

3. Add keyframes as required to mark where the adjustments begin and end. See [Adding Keyframes](#) for more information.

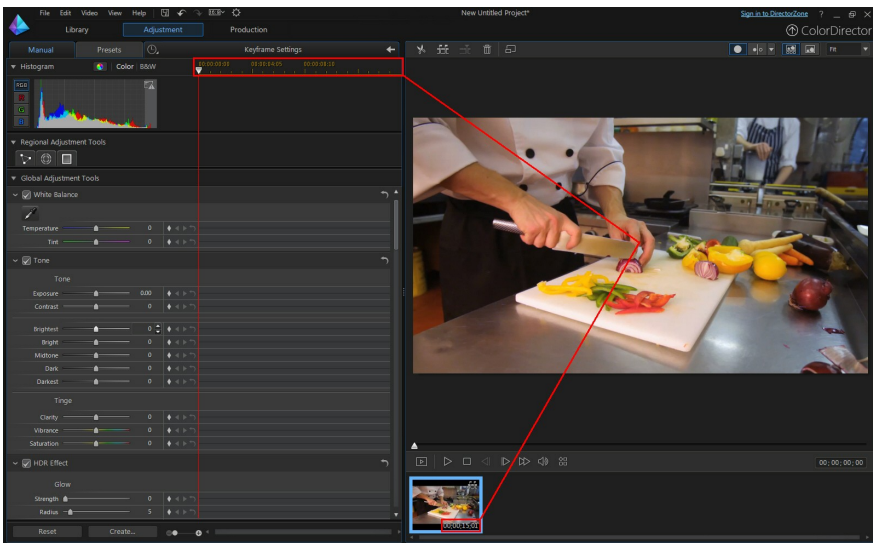


Note: *keyframes are also added to the keyframe timeline if you change the shape, position, or size of a regional adjustment mask.*

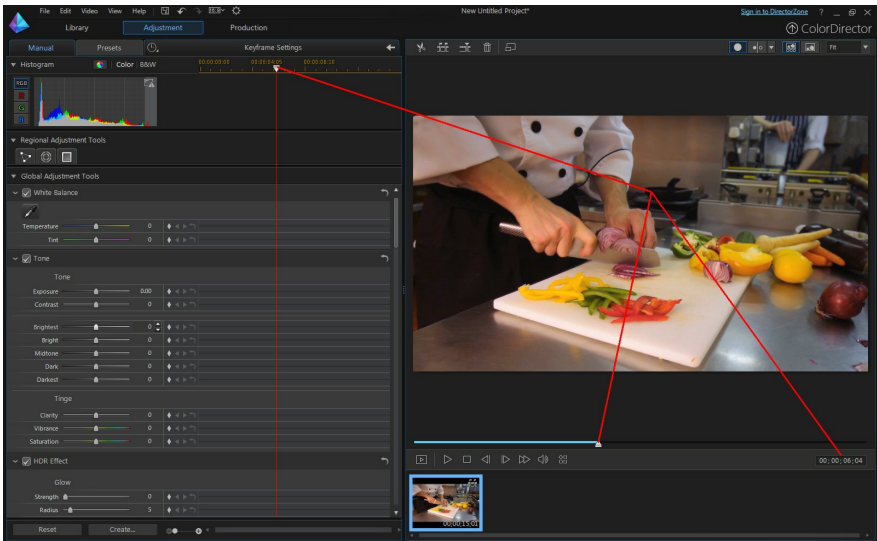
4. Make adjustments to your video clip as required. See [Making Video Adjustments](#) for more information.

Keyframe Timeline

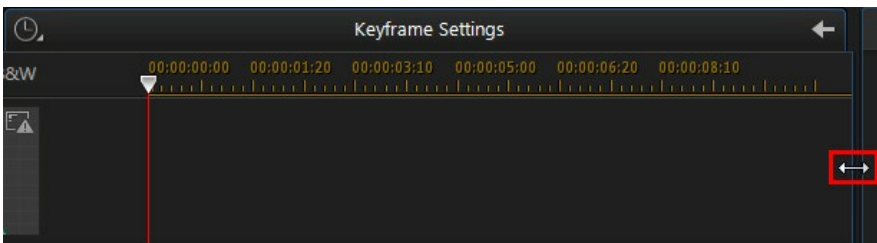
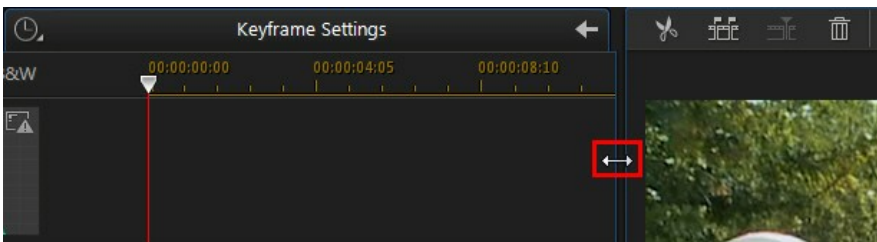
A custom keyframe timeline is generated for each video clip you import into the storyboard panel and is visible in the keyframe settings panel. In the below example, because the video clip is 15 seconds long, the keyframe timeline is also 15 seconds.




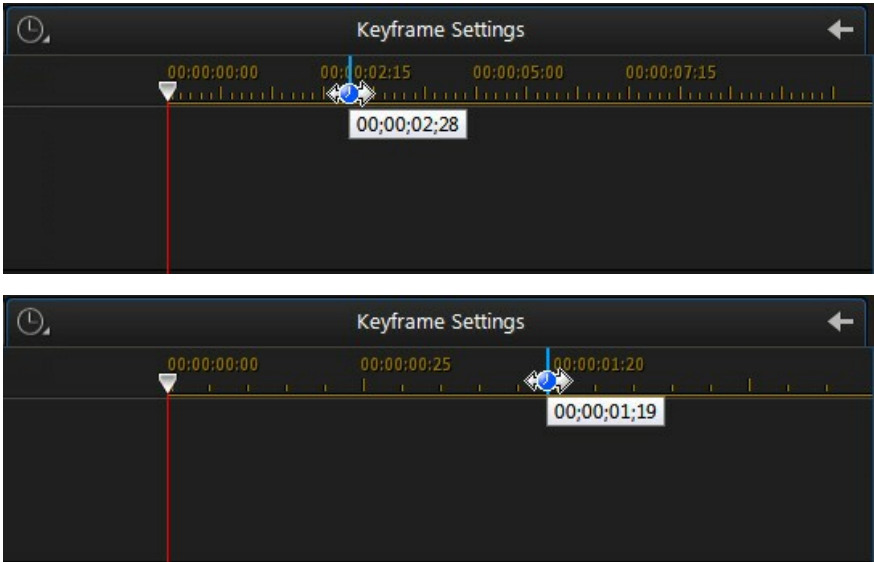
The timeline slider position corresponds to the position of the playback slider and the timecode display in the video viewer window.



You can click and drag the edge of the keyframe settings panel to change the size of the timeline and the video in the preview window.



You can also zoom in on the keyframe timeline for a more precise placement of keyframes. To zoom in or out on the timeline, just click on the timeline ruler and drag it left or right, or use the  slider at the bottom of the adjustment panel.



In the above example, the timeline is zoomed in to the frame level. Each line on the timeline ruler, now represents a frame of video.

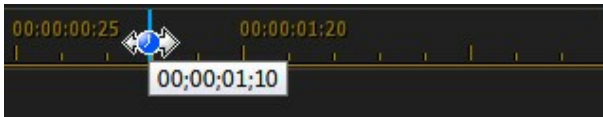
Timeline Markers

You can add timeline markers to the keyframe timeline ruler for more precise adding of keyframes.

Adding Timeline Markers

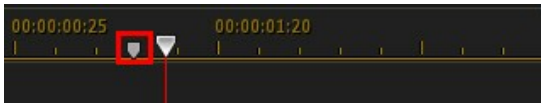
To add a timeline marker, do this:

1. Hover your mouse over the keyframe timeline ruler. The blue timeline marker indicator displays the current time.

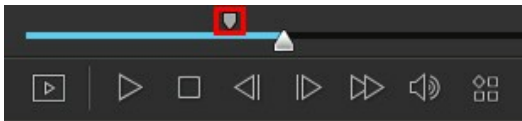


Note: use the keyframe timeline ruler to expand the timeline for a more precise placement of timeline markers.

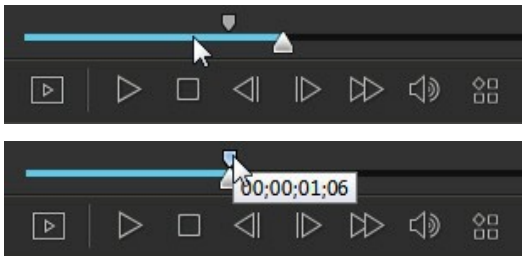
2. Once you have found the time where you want to place the timeline marker, right-click on the ruler and then select **Add Timeline Marker**, or press the M key on your keyboard.
3. Input a **Note** for the new timeline marker, if required.
4. Click on **OK** to add the new timeline marker.




Note that the timeline marker is also added to the storyboard timeline.



5. You can then just click on the added timeline marker to align the timeline slider to it. This makes it easy to add keyframes at this precise moment in your video clip.



Note: you can manually drag a keyframe timeline marker to different position if the original is not in the exact location you wanted it. Expand the keyframe timeline ruler for a more precise placement, if necessary.

Right-click on the keyframe timeline ruler and then select **Manage Markers** to view a list of all the timeline markers you have added. In this list you can remove any of the existing markers, or hover your mouse over the Note column and then click  to edit the associated text.



Adding Keyframes

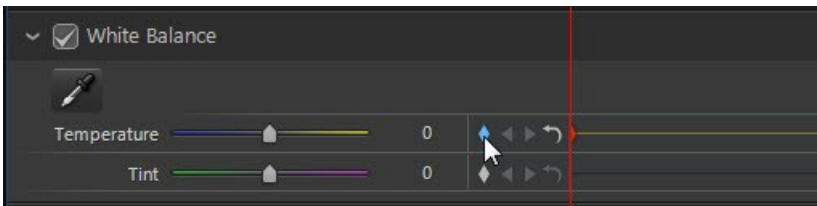
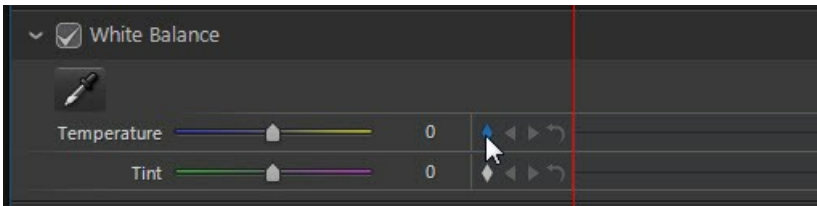
Any time you make a change to an adjustment item using one of the sliders, or change the size, shape, or position of a regional adjustment mask, a keyframe is automatically added to the keyframe timeline.



Note: even if you want an adjustment to be made on the entire duration of a video clip, CyberLink ColorDirector automatically adds a keyframe at the beginning of the keyframe timeline.

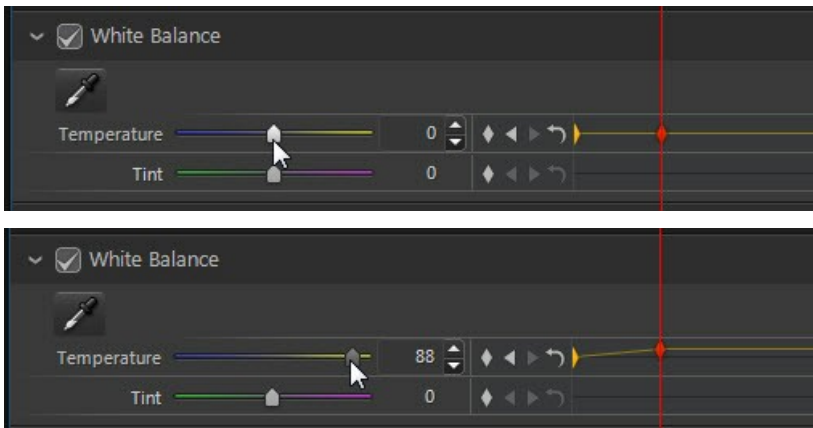
To manually add keyframes to the keyframe timeline, do this:

1. Click on  to open the keyframe settings panel.
2. Click on  next to the adjustment item you want to change to add a keyframe at the beginning of the keyframe timeline.



Note: you can add timeline markers to the keyframe timeline to ensure the keyframe is placed at the exact moment you want to make the adjustment. See [Timeline Markers](#) for more information.

3. Use the player controls to find the moment in your video clip where you want its properties to change (make adjustments).
4. Drag the sliders as required, making the adjustments to the video clip that you want to make. Note that a keyframe marker is added at that moment in timeline.



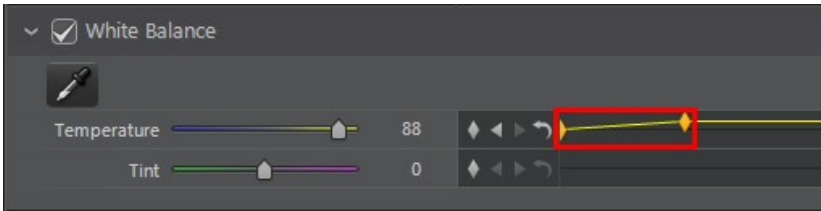
5. Right click on the first of the two keyframes to set how and when the adjustment/change is applied. See [Setting Keyframe Behavior](#) for more detailed information.
6. Repeat these steps to add more keyframes to the timeline, and for all the adjustments you want to make on the video clip, if required.

Setting Keyframe Behavior

If you have added two keyframes to the timeline and made the some adjustments, right click on the first keyframe to set the behavior, or when the adjusted properties will display in the video clip.

To set the behavior, right click on the first keyframe and then select one of the following keyframe behavior options:

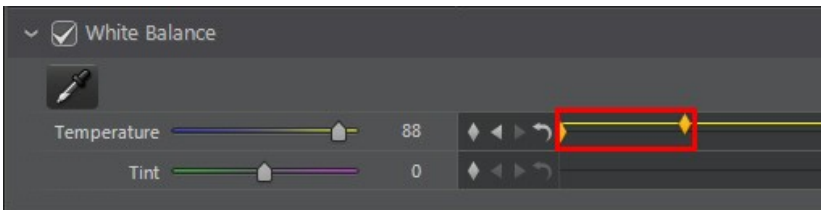
- **Gradual Change from Current Keyframe:** select this option if you want the adjustment/change to be made gradually between the two keyframes. By the time the playback slider reaches the second keyframe, the adjustment/change is fully applied.



- **Instant Change at Next Keyframe:** select this option if you want the adjustment/change to be applied instantly once the playback slider has reached the second keyframe.






- **Instant Change at Current Keyframe:** select this option if you want the adjustment/change to be applied instantly once the playback slider has reached the first keyframe.




Modifying and Removing Keyframes

At any time you can modify the keyframes added, by selecting it in the timeline and changing the corresponding adjustments.

You can also do the following:

- to remove a keyframe, select it on the timeline and then click .
- click  to quickly jump to the previous keyframe, or  to jump to the next one.

- click on  to remove and reset all keyframes on the selected timeline.
- right click on any keyframe on the keyframe timeline and then select **Reset to Default Value** to reset the adjustment back to the original setting. Note that the keyframe is not removed, the adjustment is just reset.

Chapter 6:

Making Video Adjustments

Click on the **Adjustment** button and then on the **Manual** tab to begin making adjustments to your video clips. Any adjustments you make are not auto-applied to the original video file. CyberLink ColorDirector keeps a log of all the adjustments you want to make, and then applies them to each video clip when it is rendered in the Production module. This leaves the original video clip untouched.

Adjustments can be made both globally (on the entire video frame, see [Global Adjustment Tools](#)) or regionally (on a specified area of the video frame only, see [Regional Adjustment Tools](#)). You can also apply adjustments to only the video frames you want to using keyframes. See [Utilizing Keyframes](#) for detailed information.

To make adjustments on video clips in the library, do this:

1. Select the video clips in the library panel that you want to adjust, and then drag and drop them into the storyboard panel.



Note: you can add more than one video clip to the storyboard panel for adjusting. However, all the video clips in the storyboard panel will be rendered into one longer video once produced in the Production window. If you do not want the video clips rendered together, you must add each of them to the storyboard separately, and then adjust and produce them one by one.

2. Click on the **Adjustment** button.
3. Select the specific video clip in the storyboard that you want to adjust.
4. Make all the adjustments on the video clip as required.

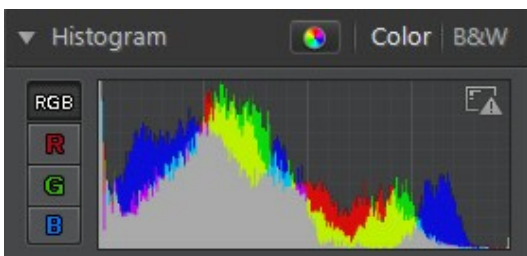


Note: you can also choose to apply adjustment presets to instantly transform your video clips. See [Using Adjustment Presets](#) for more information.

5. If required, select another video clip in the storyboard and make adjustments.
6. When you are done adjusting each video clip in the storyboard panel, click on the **Production** button to render them with the adjustments applied. See [Production](#) for more detailed information.

Histogram

The histogram is a graphical representation of the color tone distribution in a selected video. During the playback of a video clip, the histogram values will continually change, indicating how the lighting in the video image changes.





The X axis of the graph represents the RGB color tone value between 0 and 255, while the Y axis indicates the number of pixels in the video that have this value.

The histogram is created with the three RGB (red, green, and blue) color values given to each pixel in the video image. The gray portions indicate where all three colors overlap on the histogram, while yellow, magenta, and cyan appear when two of the colors overlap. Click **R**, **G**, or **B** to view the red, green, or blue color channel values only in the histogram. Click **RGB** to return to the original histogram display and display all the channels.

Applying Color Look-up Tables (CLUT)

Use the color look-up table (CLUT) to transform the range of colors in a video clip to another range. Doing this can completely change the color scheme of the video, and ensure all your video clips have the same look.

To apply a color look-up table to a video clip, do this:

1. Select the video clip on the storyboard you want to apply the color look-up table to.
2. Click on  in the histogram.
3. Select the **Apply color look-up** table check box.
4. Click on  and then select the color look-up table you want to use. Click on **Open** to finish the selection.



***Note:** once the color look-up table is selected you can preview how the video will look with in applied. Based on the before and after preview, you can choose to apply the changes, select another color look-up table, or cancel out of the window.*

5. If required, select the **Apply to All** button if you want to apply the selected color look-up table on all of the video clips that are currently on the storyboard.
6. Click **Apply** to set the changes.

Converting Videos to Black and White

You can instantly convert a selected video clip to black and white, i.e. replace the colors with grayscale.


To convert, select **B&W** at the top of the adjustment panel. To convert back, select **Color**.

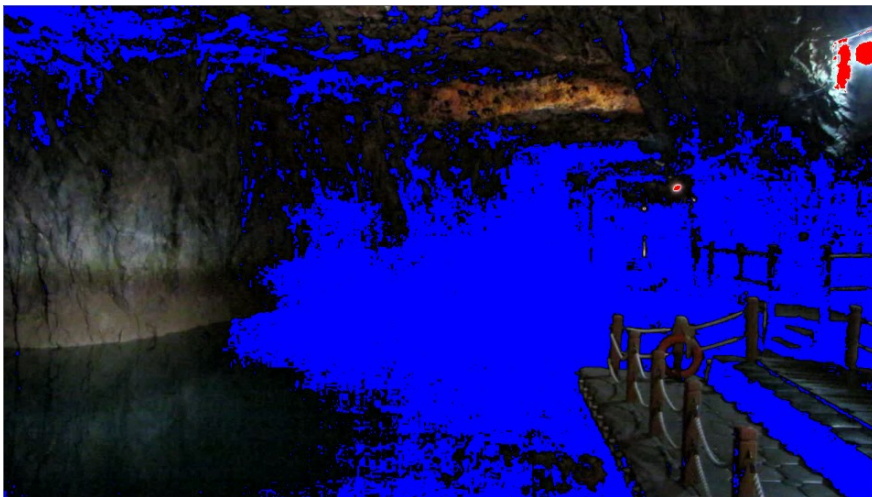



***Note:** after you convert a video to black and white, the **Black and White** section of the adjustment panel is enabled. See [Black and White](#) for details on adjusting the lightness in black and white videos.*

Viewing Exposed Areas

The histogram can also be used to determine if the video was shot correctly. A video clip with a histogram that arcs towards the left, indicates the video was underexposed (contains a lot of dark pixels), while one that arcs towards the right means there was an overexposure (lots of lighter pixels).

Click  to view the areas of the video image that were so over and underexposed that all detail was lost, or clipped, in that area.



The areas that are overexposed are indicated in red. The areas of the video image that are underexposed, in blue. Click  to hide these areas.

Regional Adjustment Tools

Use the regional adjustment tools if you want to modify only a specific area of the video frame in your selected video clip.

The following sections outline the features and functions available in the regional adjustment tools of CyberLink ColorDirector. To begin using a regional adjustment tool, just select it from the available icons.

Using a Selection Mask

A selection mask lets you select only the pixels in a video clip that you want to adjust. This allows you to select and adjust static objects in the video clip.




Note: *the selection mask is ideal for adjusting areas of video in videos clips where the camera or objects in the area are motionless. If the camera is moving or objects move in the frame, try using a motion tracking mask. See [Using a Motion Tracking Mask](#) for more information.*

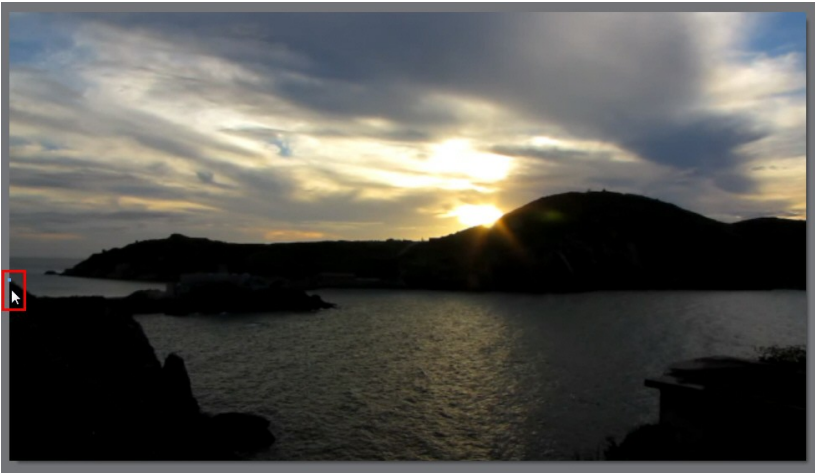
Creating a Selection Mask

To create a selection mask and use it to make adjustments, do this:



Note: you can adjust multiple areas of the video using selection masks. See [Using Multiple Selection Masks](#) for more information.

1. Click  to open the selection mask controls.
2. Use your mouse to manually select the area of the video frame you want to adjust. You do this by clicking around the outline of the area until an enclosed section is selected.





Note: to create horizontal or vertical lines using straight line control, just hold down the Shift key on your keyboard when adding node points.



Note: you can adjust the shape of the selection mask by clicking and dragging the nodes. Click a node to select it, and then press the Delete key on your keyboard to delete it. To add a new node, just hover your mouse over the line edge and click to add the required node.


3. Use the **Feather** slider to set the transition level between the area being selected and the pixels around the area. This slider is not enabled until a masked area has been defined on the video frame.



Note: *CyberLink ColorDirector displays a mask color marker on the area you select. Right click on the mask color marker for more selection mask options.*

4. Make the required adjustments to the selected part of the video frame using the regional adjustment options. See [Regional Adjustment Options](#) for a detailed description of all the available adjustments you can make.



Note: *if required, click the  button to invert the selected pixels. When selected, CyberLink ColorDirector will apply the adjustments to areas that were not selected. Click it again to revert the adjustments back to the pixels selected originally.*

Adjusting Mask Position and Shape

If the selection mask you created appears off at any point during the duration of the video clip, you can easily adjust its position or shape.



Note: *when you adjust the position or shape of a selection mask, CyberLink ColorDirector automatically adds a keyframe to the keyframe settings timeline to mark the change. See [Utilizing Keyframes](#) for more information on keyframes.*

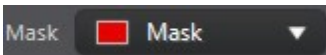
To adjust the selection mask position/shape, pause the video clip playback at the point when you want to make the adjustment and then do any of the following:

- click on a mask node to select it and then drag it to a new position.
- click on a mask node to select it, and then press the Delete key on your keyboard to delete it, if required.
- to add a new mask node, just hover your mouse over the line edge and click to add the required node.
- click on the mask color label and then drag the entire mask to a new position.
- right click on the mask color label for more options, including selecting all nodes, deleting the mask, resetting the adjustments, and more.

Using Multiple Selection Masks

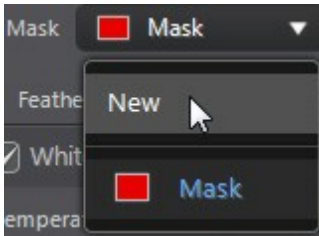
You can make up to five different selected adjustments on a video. When you select areas of the video and modify the adjustment options, a mask is auto created and labeled by color.

The mask label is visible in the **Mask** drop-down at the top of the selection mask tab.

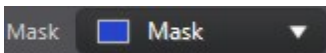


To create a new adjustment mask, do this:

1. Select **New** from the **Mask** drop-down to create a new mask.



2. Use your mouse to manually select the area of the video frame you want to adjust, and then use the sliders to set the adjustments as required for the second adjustment.
3. CyberLink ColorDirector labels the mask with another color in the **Mask** drop-down.



4. CyberLink ColorDirector marks each mask on the video with the color label.




5. Click the color label to quickly select the mask, and view the selected areas (pixels) of the video where each of the adjustments was applied.

Using a Motion Tracking Mask

Use a motion tracking mask to adjust areas of the video that have moving objects, or when the camera moves in a video clip. When you apply the motion tracking mask on a set of pixels, CyberLink ColorDirector will auto track the pixels as they move through each video frame, adjusting the mask shape and applying the same adjustments to them.

Creating a Motion Tracking Mask

To create a motion tracking mask and use it to make adjustments, do this:



1. Click  to open the motion tracking mask controls.
2. Use the playback controls to find the first frame of video where the object or camera begins moving.
3. Set the mask options as follows:
 - **Brush/Eraser:** click on **Brush** and then use the mouse to select the pixels of the object or area you want to track. Click on **Eraser** if you make some errors

using the brush and want to remove pixels that are selected.

- **Size:** use the slider to set the size of the brush or eraser. You can also use the mouse scroll wheel to adjust the diameter of the brush/eraser.
- **Feather:** use the slider to set the transition level between the area being selected and the pixels around the area.




***Note:** the Feather slider is not enabled until a masked area has been defined on the video frame.*

4. When you are done selecting all the pixels of the object for tracking, click on . CyberLink ColorDirector starts tracking the pixels as they move through the frame. Click the  button if you only want to track the movement for one frame of video.




Note: you can check the mask details in the keyframe settings panel. CyberLink ColorDirector adds a keyframe for the start and end points of the motion tracking to the mask's keyframe timeline.



5. Click the  button at any time if you want to stop the motion tracking. If you don't click this button, CyberLink ColorDirector tracks the pixels until it can no longer detect movement or the pixels are no longer available, i.e. off screen or obstructed.
6. Once the motion tracking has stopped, make the required adjustments to the selected part of the video frame using the regional adjustment options. See [Regional Adjustment Options](#) for a detailed description of all the available adjustments you can make.



Note: if required, click the  button to invert the selected pixels. When selected, CyberLink ColorDirector will apply the adjustments to areas that were not selected. Click it again to revert the adjustments back to the pixels selected originally.

Re-tracking a Motion Tracking Mask's Position and Shape

If the motion tracking mask you created appears off at any point during the duration of the video clip, you can easily adjust its position or shape, and then re-track the movement.



Note: when you adjust the re-track the position or shape of a motion tracking mask, CyberLink ColorDirector automatically adds a keyframe to the keyframe settings timeline to mark the change. See [Utilizing Keyframes](#) for more information on keyframes.

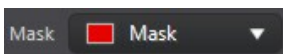
To re-track a motion tracking mask's position or shape, do this:

1. Pause the video clip playback at the point when you want to make the change to the mask.
2. Do either of the following:
 - use the brush or eraser to adjust the mask shape as required.
 - right click on the mask color label for more options, including deleting the mask, resetting the adjustments, and more.
3. Click to re-track the movement with the adjusted shape or position. Click if you want to track the pixels one frame at a time.
4. CyberLink ColorDirector re-tracks the pixels within the mask from this point, adding a keyframe to the keyframe settings panel to note the change.

Using Multiple Motion Tracking Masks

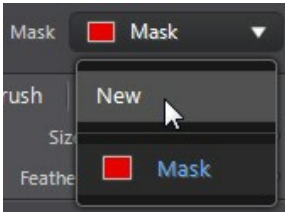
You can make up to five different selected adjustments on a video. When you select areas of the video and modify the adjustment options, a mask is auto created and labeled by color.

The mask label is visible in the **Mask** drop-down at the top of the motion tracking mask tab.

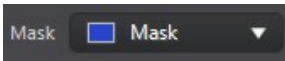


To create a new adjustment mask, do this:

1. Select **New** from the **Mask** drop-down to create a new mask.



2. Repeat the steps in [Creating a Motion Tracking Mask](#) to create the motion tracking mask, and then use the regional adjustment option sliders to set the adjustments as required for the second adjustment.
3. CyberLink ColorDirector labels the mask with another color in the **Mask** drop-down.



4. CyberLink ColorDirector marks each mask on the video with the color label.



5. Click the color label to quickly select the mask, and view the selected areas (pixels) of the video where each of the adjustments was applied.

Using a Gradient Mask


Use the gradient mask to apply adjustments gradually across a large area of a video.



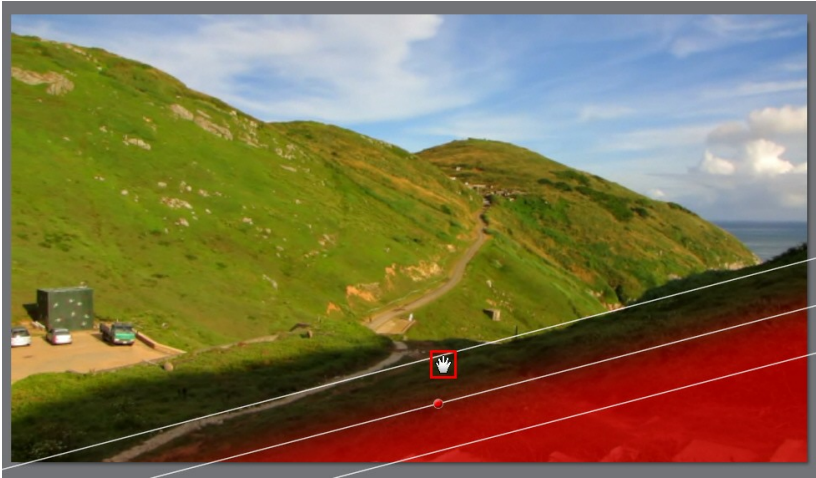
Note: the gradient mask is ideal for adjusting areas of video in videos clips where the camera or objects in the area are motionless.

Adding a Gradient Mask

To add a gradient mask and use it to make adjustments, do this:

1. Click  to open the gradient mask controls.
2. Click and drag on the video to set the gradient across a portion of the video. CyberLink ColorDirector displays a mask color on the area you apply.





Note: the mask's color disappears as soon as you start adjusting the gradient mask options. Right click on the mask color marker for more selection mask options.

3. Make the required adjustments to the selected part of the video frame using the regional adjustment options. See [Regional Adjustment Options](#) for a detailed description of all the available adjustments you can make.

Adjusting Mask Position and Size

If the gradient mask you created appears off at any point during the duration of the video clip, you can easily adjust its position or size.



Note: when you adjust the position or size of a gradient mask, CyberLink ColorDirector automatically adds a keyframe to the keyframe settings timeline to mark the change. See [Utilizing Keyframes](#) for more information on keyframes.

To adjust the gradient mask position/size, pause the video clip playback at the point when you want to make the adjustment and then do any of the following:

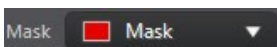
- click on a mask line and expand/contract the size, or rotate the mask if clicking on the middle line.
- click on the mask color label and then drag the entire mask to a new position.

- right click on the mask color label for more options, including deleting the mask, resetting the adjustments, and more.

Using Multiple Gradient Masks

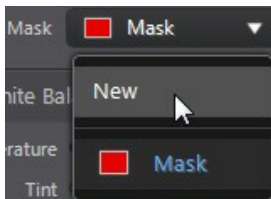
You can use up to five gradient masks on a video in CyberLink ColorDirector. When you modify the adjustment options and use the gradient mask on the video, CyberLink ColorDirector auto creates a mask labeled by color.

The mask label is visible in the **Mask** drop-down at the top of the gradient mask tab.

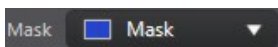


To create a new gradient mask, do this:

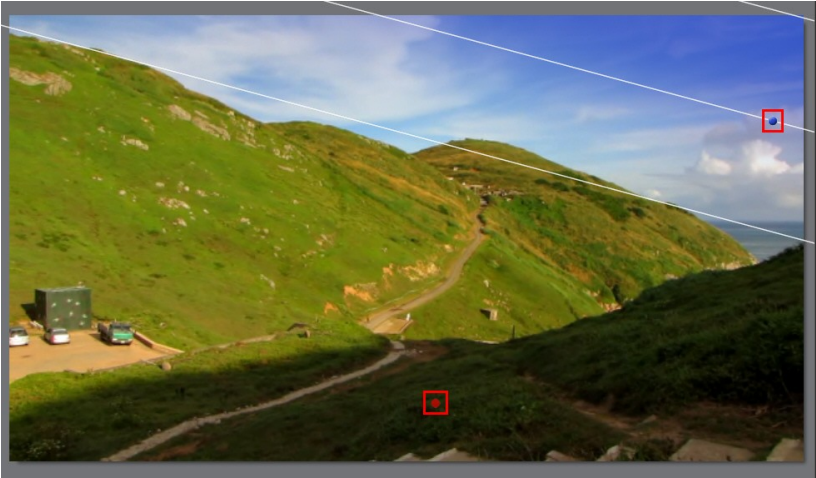
1. Select **New** from the **Mask** drop-down to create a new mask.



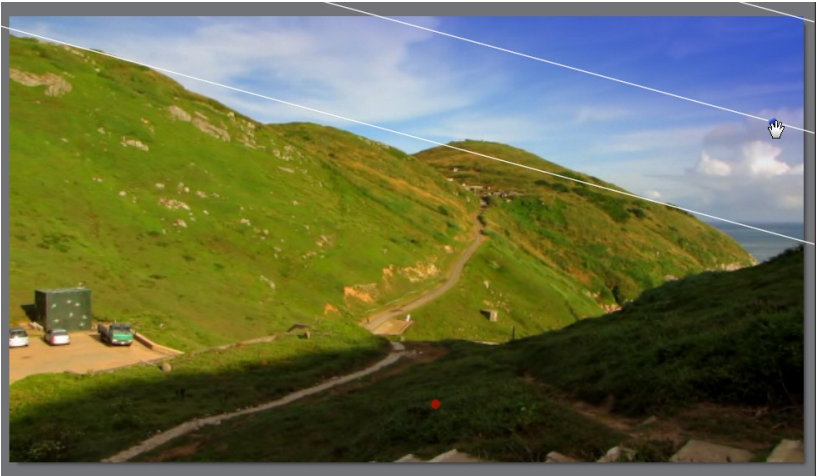
2. Click and drag on the video to set the gradient across a different portion of the video.
3. Use the sliders to set the adjustments as required for the second gradient mask.
4. CyberLink ColorDirector labels the mask with another color in the **Mask** drop-down.

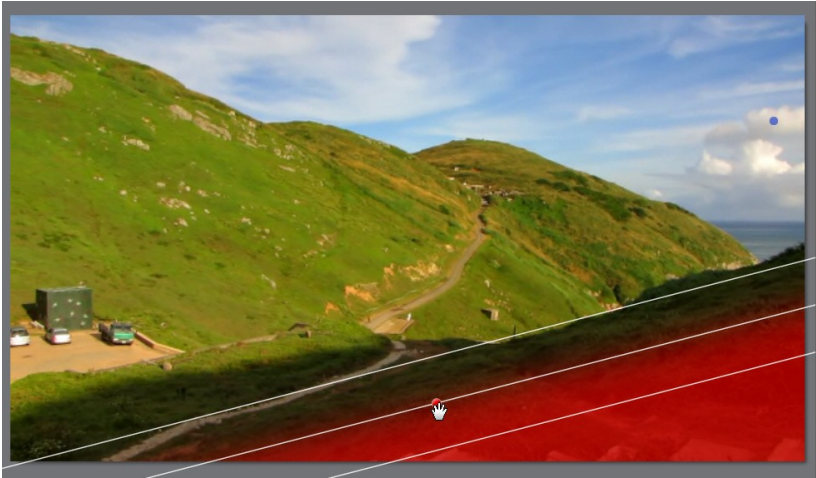


5. CyberLink ColorDirector marks each gradient mask on the video with the color label.



6. Click the color label to toggle the masks on and off, and view the areas of the video where the gradient was applied.





Regional Adjustment Options

When making regional adjustments with the selection mask, motion tracking mask, or a gradient mask, the following options are available to you.

White Balance

- **Temperature:** use to adjust the color temperature in the selected region of the video image. A negative value applies a colder temperature, while a positive value applies an atmosphere that is warmer.
- **Tint:** use to adjust the color level in the selected region of the video.

Tone


- **Exposure:** use to adjust areas of the video image that are over or underexposed. A negative value darkens overexposed areas, while a positive value lightens underexposed areas.
- **Brightness:** use to adjust the brightness in parts of the video image.
- **Contrast:** use to adjust contrast, or the difference between light and dark areas of the video image.

- **Clarity:** use to adjust the clarity of details in the video image.
- **Vibrance:** use to make the colors in areas of the video image brighter and more vivid, by enhancing the duller colors.
- **Saturation:** use to adjust the intensity of a color in certain areas of the video image.

Hue

Use the **Hue** sliders to fine tune the shade or purity of a specific color in the selected region of the video image. Use the sliders to adjust the eight color band ranges as required.




***Note:** if you converted the selected video to black and white, the Hue section is not available. The  tool is not available when adjusting the Hue options with the regional adjustment tools.*

Saturation

Click on **Saturation** to adjust the saturation of color in the selected region of the video image. Dragging the sliders to right increases the amount of that color in the video image, while dragging it to the left reduces it. If you drag the slider all the way to the left, you can completely remove a color from the selected section of the video image.



***Note:** if you converted the selected video to black and white, the Saturation section is not available. The  tool is not available when adjusting the Saturation options with the regional adjustment tools.*

Lightness

Click on **Lightness** to adjust color brightness in the selected region of the video image. For each of the eight colors listed, you can adjust how light or dark the specific color is.



***Note:** if you converted the selected video to black and white, the Lightness section is not available. The  tool is not available when adjusting the Lightness options with the regional adjustment tools.*



Color Replacement

In the Color Replacement section, you can replace a color in the selected region of the video image with a completely different color.



***Note:** if you converted the selected video to black and white, the Color Replacement section is not available.*

To replace a color in the selected region of the video image, do this:

1. Click the  button and then use the eye dropper to select the color in the video image you want to replace. You can also click the box in the Original Color section and choose the color you want to replace in the color palette window.
2. In the New Color section, click on . In the Color window choose the color you want to replace the original with and then click **OK**.
3. Use the **Tolerance** slider to set the strength and amount of the replaced color.

Global Adjustment Tools


Use the global adjustment tools to modify the entire frame of a video clip. The following sections outline the features and functions available in the global adjustment tools of CyberLink ColorDirector.

White Balance

Use white balance for color correction or you can use it to adjust the color temperature of the video image to create a specific atmosphere. A warmer color shifts light toward the yellows and reds; a colder color shifts light toward the blues and greens.

To adjust the atmosphere of a video using white balance, do this:

1. Drag the **Temperature** slider to adjust the color temperature in the video image. A negative value applies a colder temperature, while a positive value applies an atmosphere that is warmer.
2. Drag the **Tint** slider to adjust the color level of the video image.

To use white balance to color correct the video image, click  and then use the eye dropper to select a pixel in the video image that you believe should be grey.



CyberLink ColorDirector auto corrects the color in the video image.

Tone

In this section of the adjustment panel, the sliders available adjust the tone of the entire video image, while the Tinge sliders let you modify the clarity, vibrancy, and saturation levels.

To adjust the tonal level of your videos, do this:

1. Manually adjust color tone using the available sliders as follows:
 - **Exposure:** use on videos that are over or underexposed. A negative value darkens the all the colors in the video, while a positive value lightens them.
 - **Contrast:** use to adjust contrast, or the difference between light and dark areas of the video image.
 - **Brightest:** use to brighten/darken the colors in the video image that are close to whites. Darkening the lighter colors can enhance their contrast and make highlights stand out more. Drag the slider left to darken, reducing the clipping in highlights. Drag it right to brighten and clip the colors that are close to white.
 - **Bright:** is applied to areas of the video image that are overexposed, which can recover detail in the highlights and brighter areas. Drag the slider left to recuperate lost detail in highlights by darkening them. Drag it right to brighten the video image without clipping the brighter areas.
 - **Midtone:** use to adjust the overall brightness of the video image by changing the midtone colors only. Drag the slider left to darken, or right to brighten.
 - **Dark:** can be used to help enhance detail in dark sections of the video image by brightening shadows and underexposed areas. Drag the slider left to darken the video image without clipping the shadows. Drag it right to

recuperate lost detail in shadows by brightening them.

- **Darkest:** use to brighten/darken the colors in the video image that are close to blacks. Brightening the darker colors can enhance their contrast and make shadows stand out more. Drag the slider left to darken and clip the dark colors. Drag it right to brighten and reduce clipping in shadows.
2. Manually adjust the sliders to adjust the video image tinge as follows:
- **Clarity:** use to adjust video image clarity. Dragging the slider to the right makes the video image appear crisper, while to the left makes it appear more "dreamy".
 - **Vibrance:** use to make the colors in the video image brighter and more vivid, by enhancing the duller colors.
 - **Saturation:** use to adjust the saturation of color in the video image. A negative value moves the colors towards black and white, while a positive value increases the overall intensity of color in the video image.

HDR Effect

In this section of the adjustment panel, use the sliders to apply an HDR effect on your videos. The HDR (high dynamic range) effect adjusts the lighting range on the edges in the video image, allowing you to recover any loss of detail caused by contrasting brightness during video exposure. Users can also use this effect to give videos a more dramatic tone.

Glow

Use the Glow sliders as follows to apply an HDR glow effect, or a "halo" edge, on contrast edges in the video image:

- **Strength:** use this slider to adjust the amount of the HDR glow effect applied to the video image.
- **Radius:** use the slider to adjust the radius of the HDR glow effect, or the amount of contrast applied to the edges in the video image.
- **Balance:** use the slider to adjust the balance (where it is applied) of the HDR glow effect. Moving the slider right applies it on the brighter parts (highlights) of edges. Moving it left applies it to the darker parts (shadows) of edges.

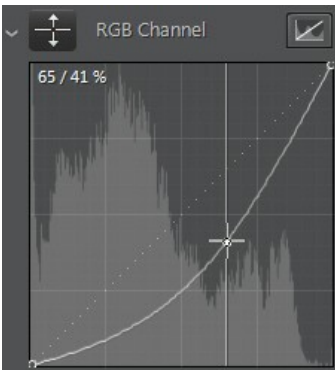
Edge


Use the Edge sliders as follows to apply the HDR effect on contrast edges in the video image:

- **Strength:** use this slider to adjust the amount of the HDR edge effect applied to the video image. Dragging it right will reveal more detail on the contrast edges. Dragging it left will blur them.
- **Radius:** use the slider to adjust the radius of the HDR edge effect, or the amount of contrast applied to the edges in the video image.
- **Balance:** use the slider to adjust the balance (where it is applied) of the HDR edge effect. Moving the slider right applies it on the brighter parts (highlights) of edges. Moving it left applies it to the darker parts (shadows) of edges.

Curve

In the Curve section you can use the tone curve graphs to change the tonal scale, or overall contrast of a video's image.



You can use one or all of the four tone curve graphs to adjust tonal scale of the video image. Just click on a curve and drag it up or down, or use the  tool to target the adjustments on a specific tonal region of the video image.

You can adjust each tone curve graph as follows:

- **RGB channel:** use this graph to adjust all of the colors in the video image. If

you click on the curve and drag it down, the video image becomes darker. When dragged up, the video image becomes lighter.

- **Red channel:** use this graph to only adjust the red in the video pixels. If you click on the curve and drag it down, you will remove the red from the video image. When dragged up, the video image becomes darker red.
- **Green channel:** use this graph to only adjust the green in the video pixels. If you click on the curve and drag it down, you will remove the green from the video image. When dragged up, the video image becomes darker green.
- **Blue channel:** use this graph to only adjust the blue in the video pixels. If you click on the curve and drag it down, you will remove the blue from the video image. When dragged up, the video image becomes darker blue.



Note: click the curve graph's corresponding  button at any time to reset a curve back to its default setting.

Detail

You can adjust the sharpness in a video in the Detail section. The sharpness is applied to edges in the video image to enhance detail in the video clip, where possible.

Adjusting Sharpness

To adjust the sharpness in the video image, use the available sliders as follows:

- **Amount:** use this slider to adjust the amount of sharpness applied to the video image.
- **Radius:** use the slider to adjust the radius or range of sharpness applied to edges in the video image.



*Note: to see the radius mask, ensure that **Show affected areas** is selected. When enabled, dragging the slider lets you see the applied range of sharpness.*

- **Edge Mask:** use the slider to apply a mask on the detected edges in the video image. Once a mask is applied, CyberLink ColorDirector only applies the sharpness to the masked areas, leaving the surrounded areas untouched.



Note: to see the edge mask, ensure that **Show affected areas** is selected. When enabled, dragging the slider lets you see the detected edges in the video.

Noise Reduction

Applying sharpness and other adjustments to videos may result in some image noise appearing on them. Use the following sliders to reduce the noise as required:



- **Luminance:** use this slider to slightly adjust the color brightness, by reducing any unwanted light grey spots in the video image that cause luminance noise.
- **Detail:** use this slider to adjust/recover detail in the video image that may be lost when reducing luminance noise from a video.
- **Color:** use this slider to slightly adjust the overall color saturation, by reducing any unwanted color spots in the video image that cause color noise.
- **Detail:** use this slider to adjust/recover detail in the video image that may be lost when reducing color noise from a video.

Hue

Click on **Hue** to fine tune the shade or purity of a specific color the video image. Use the sliders to adjust the eight color band ranges as required.



Note: if you converted the selected video to black and white, the Hue section is not available, and is replaced by the Black and White section. See [Black and White](#) for details on adjusting the lightness in black and white videos.



You can also use the  tool to target the adjustments on a specific color in the video image. To do this, click  to enable the tool, and then click and (while holding the mouse button down) drag on the color. Drag the mouse up to increase its hue, or down to decrease it in the targeted color.

Saturation

Click on **Saturation** to adjust the saturation of color in the video image. Dragging the sliders to the right increases the amount of that color in the video image, while dragging it to the left reduces it. If you drag the slider all the way to the left, you can completely remove a color from the video image.



Note: if you converted the selected video to black and white, the Saturation section is not available, and is replaced by the Black and White section. See [Black and White](#) for details on adjusting the lightness in black and white videos.



You can also use the  tool to target the adjustments on a specific color in the video image. To do this, click  to enable the tool, and then click and (while holding the mouse button down) drag on the color. Drag the mouse up to increase the color's saturation, or drag it down to decrease it in the targeted color.

Lightness

Click on **Lightness** to adjust color brightness. For each of the eight colors listed, you can adjust how light or dark the specific color is.

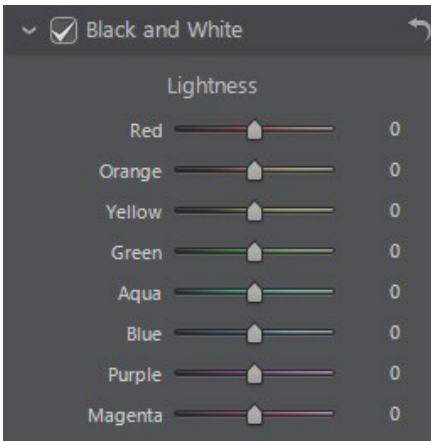


Note: if you converted the selected video to black and white, the Lightness section is not available, and is replaced by the Black and White section. See [Black and White](#) for details on adjusting the lightness in black and white videos.



You can also use the  tool to target the adjustments on a specific color in the video image. To do this, click  to enable the tool, and then click and (while holding the mouse button down) drag on the color. Drag the mouse up to increase the color's brightness, or drag it down to decrease, making the color darker.

Black and White

When you convert videos to black and white, this section becomes enabled, replacing the Hue, Saturation, and Lightness sections. In it you can adjust the grayscale levels, or overall video image lightness on the converted clips.



To change the grayscale levels, use the **Lightness** sliders to adjust the brightness of the original colors, which are now black and white.

You can also use the  tool to target the adjustments on a specific color (shade of gray) in the video image. To do this, click  to enable the tool, and then click and (while holding the mouse button down) drag on the color. Drag the mouse up to increase the brightness of the color, or drag it down to decrease it.


Split Toning

In the Split Toning section of the Adjustment panel you can produce creative effects on your videos, such as the Lomo effect. You can also add color to monochrome videos, or videos you converted to black and white.

Use the Split Toning controls on a selected video, as follows:

Highlights

Use the sliders to adjust the hue and saturation of the highlights, or the brightest areas of a selected video.

- **Hue:** use this slider to set the hue or color of the highlights in the video image. You can also click  and then use the eye dropper to select the precise color (both hue and saturation) you want used in the highlights.


- **Saturation:** use this slider to set the saturation of the color used, or its amount/strength. Dragging the slider right makes the color more saturated, while dragging it left makes it less saturated.

Balance

- use the **Balance** slider to set the balance between the split toning effect applied on the highlights and shadows in the video image. Drag the slider left to increase the influence of the **Shadows** sliders on the video image, drag it right to increase the influence of the **Highlights** sliders. Set the **Balance** slider's value to 0 if you want both the effects on the highlights and shadows equally applied.

Shadows

Use the sliders to adjust the hue and saturation of the shadows, or the darkest areas of a selected video.

- **Hue:** use this slider to set the hue or color of the shadows in the video image. You can also click  and then use the eye dropper to select the precise color (both hue and saturation) you want used in the shadows.
- **Saturation:** use this slider to set the saturation of the color used, or its amount/strength. Dragging the slider right makes the color more saturated, while dragging it left makes it less saturated.



Color Replacement

In the Color Replacement section you can replace a color in a video clip with a completely different color.



***Note:** if you converted the selected video to black and white, the Color Replacement section is not available.*

To replace a color in the selected video clip, do this:

1. Click the  button and then use the eye dropper to select the color in the video image you want to replace. You can also click the box in the Original Color section and choose the color you want to replace in the color palette window.
2. In the New Color section, click on . In the Color window choose the color you want to replace the original with and then click **OK**.

3. Use the **Tolerance** slider to set the strength and amount of the replaced color.

Tint Filter

In this section of the Adjustment panel you can apply a tint filter on the selected video, which lets you apply a mono-tone color on the video image..

Use the Tint Filter controls on a selected video, as follows:

- **Hue:** use this slider to set the mono-tone color used on the video image.
- **Intensity:** use this slider to set the intensity of the mono-tone color. Dragging the slider right makes the colors more saturated, while dragging it left makes it less saturated.

Vignetting Effect

You can add custom vignetting effects to videos in CyberLink ColorDirector.

- **Shade:** use this slider to adjust the shade of the vignetting effect. Dragging the slider to the left darkens the corners of the video image towards black, while dragging it right lightens them towards white.
- **Size:** use this slider to adjust the size of the vignetting effect. Dragging the slider to the left increases the size of the vignette effect, closing in a circle on the center of the video image.
- **Roundness:** use this slider to adjust the overall shape of the vignetting effect.
- **Feather:** use this slider to adjust the edge sharpness of the vignetting effect. Dragging the slider to the left makes the edge blunt, while to right uses more of a gradient.

Chapter 7:

Using Adjustment Presets


Adjustment presets are a saved set of adjustments that you can apply to your video clips. You can also download and import presets created by other users, or save your own to use on other video clips or share them by uploading to DirectorZone.

Click on the **Presets** tab to display the available adjustment presets.

Downloading Presets from DirectorZone

CyberLink ColorDirector supplies you with some custom adjustment presets that you can use on your videos. On the **Presets** tab, these default adjustment presets are available in the Default Presets section.


To download additional adjustment presets from DirectorZone, do this:

1. Click on  or the **Download more from DirectorZone** link. CyberLink ColorDirector launches DirectorZone in your default web browser.
2. You must first sign in to DirectorZone to download templates. If you don't have an account, click the **Create Account** link at the top of the page to get one for free.
3. Select the **ColorDirector** tab to display all the available adjustment presets you can download.
4. Find a preset you want to download, and then click the **Download** link underneath it.
5. Click **Download** again.
6. Save the template to your computer. Find the location on your computer where you saved the preset file, and then double-click on it to install it in the Presets window.

My DirectorZone Presets

In the My DirectorZone window you can conveniently download the custom presets that you previously uploaded to DirectorZone. You can also access and download presets from your DirectorZone download history and also your favorite presets.

To download My DirectorZone presets, do this:

1. Click  on the Presets tab.
2. Click the **My DirectorZone** tab.
3. Filter the presets by **My Uploads**, **Download History**, or **My Favorites**, or enter a search keyword in the field provided.
4. Select all of the presets you want to download.
5. Click **Download** to download them to your computer and import them into the library.




***Note:** the presets you download are available in the **Downloaded Presets** section of the Presets tab.*

Downloading Presets from CyberLink Cloud

If you have a CyberLink Cloud subscription you can download the presets you previously backed up to CyberLink Cloud. Once downloaded, these presets are stored in the download folder specified in [CyberLink Cloud Preferences](#), and imported into the presets library on the Presets tab.

To download presets from CyberLink Cloud, do this:

1. Click  on the Presets tab.
2. Click the **My CyberLink Cloud** tab.
3. Filter the presets by selecting a collection from the drop-down, or enter a search keyword in the field provided.
4. Select all of the presets you want to download.

- Click **Download** to download them to your computer and import them into the presets library.




Note: the presets you download are available in the **Downloaded Presets** section of the Presets tab.

Saving Custom Presets

You can save all the adjustments you made on a video into a custom preset, so that you can use them on other video clips.

To save a custom adjustment preset, do this:

- Click on  when on the Presets tab, or at the bottom of the **Manual** tab click on **Create**.
- In the New Preset window, enter the following information:
 - Preset name:** enter a custom name for the new preset.
 - Save in:** select which preset folder on the Presets tab you want to save the preset in. Select **New Folder** if you want to save the custom preset in a new folder.
- Select or deselect any adjustment types as required. This allows you to customize the adjustment if required.



Note: by default, all adjustment types are selected.

- Click the **Save** button.



Note: before saving the preset, click the **Upload** button if you want to upload it to DirectorZone or back it up on CyberLink Cloud. See [Sharing and Backing Up Presets](#) for more information on uploading presets to DirectorZone.

Applying Presets on Videos

You can apply any of the adjustments presets on the Presets tab on video clips in the storyboard.


To apply adjustment presets on videos, do this:

1. Select the video clips that you want to apply presets to in the storyboard panel and then click on the **Presets** tab.
2. Hover your mouse over each available preset to preview the current video with the adjustment applied.
3. Click on the adjustment preset you want to use to apply it.

Sharing and Backing Up Presets

You can share your customized presets with other CyberLink ColorDirector users by uploading them to DirectorZone. If you have a CyberLink Cloud subscription you can back up all your customized presets by storing them on CyberLink Cloud.

To share and back up your presets, do this:

1. Do one of the following:
 - in the New Preset window, enter a name for the custom preset, and then click **Upload**.
 - select the preset in the **My Created Presets** section of the Presets tab, and then click .
 - right click on the preset in the **My Created Presets** section of the Presets tab, and then select **Upload to DirectorZone/CyberLink Cloud**.
2. In the upload window, enter the information as follows:
 - **Destination:** select where you want to upload the preset.
 - **Preset name:** name of the preset as it will display once uploaded.
 - **This preset belongs to which styles:** select the styles or category for the preset.
 - **Description:** enter a short description of your preset.
 - **Collection:** enter the name of the collection you want the preset added to.
 - **Tags:** enter one or more keyword search tags that will help users find the preset when searching.



***Note:** separate each tag you enter with a space. If you want to use two words as the tag, just put quotes around them, e.g. "dollar bill".*

3. Click **Next** to proceed.



Note: if you are not signed into DirectorZone, you will first be asked to sign in to continue.

4. Confirm the copyright disclaimer, and then click **Next** to proceed with the upload.
5. Click on **Close** to close the upload window.

Exporting/Import Presets


You can export your adjustment presets for import and use on another computer. To export an adjustment preset, do this:

1. Right-click on a preset and then select **Export**.
2. Enter a file name for the preset, and then select the location where you want to export it.
3. Click **Save**. CyberLink ColorDirector saves the preset in the .cdadj file format.

To import an adjustment preset, do this:



Note: you can import adjustment presets in the .pdadj and .cdadj file formats via this import method. If you are trying to import an adjustment preset in either of these formats that you downloaded from DirectorZone, just double click on it.

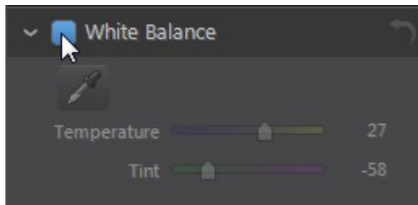
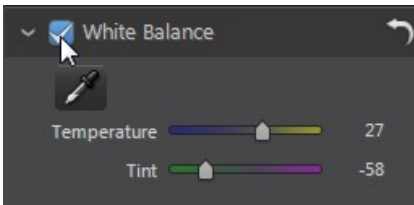
1. Within the Downloaded Preset or My Created Presets section, click on  and then select **Import**.
2. Browse to location of the preset file and then select **Open** to complete the import.

Chapter 8:

Turning Adjustments On/Off


You can turn off a set of adjustments applied to a video instantly. This allows you to reset the one type of adjustments, instead of resetting all the adjustments by clicking **Reset**.

To do this, just deselect the check box associated to the applied adjustments.



At any time you can turn the adjustments back on by re-selecting the check box.



Note: you can also click the  button if you would like to reset a set of adjustments back to the default values.

Chapter 9:

Production

When you make adjustments to videos, the last step is to produce them, or render them with the edits and adjustments applied. CyberLink ColorDirector keeps a log of all the edits and adjustments you want to make to each video clip, and producing it applies all these adjustments and creates a new video file for you.

If there are multiple video clips in your project's storyboard panel, the production feature renders all the clips into one longer video movie file. You can render them in a variety of video file formats.




Note: if you have CyberLink PowerDirector 11 or above installed on your computer, you can also select **File > Export Project to PowerDirector** from the menu to quickly send all the individual adjusted video clips in the storyboard directly to the PowerDirector timeline.

To produce your video clips, click the **Production** button to open the Production module.

Producing Video Files

You can produce your videos and render them as video files in the HEVC, AVC, MPEG-2, or WMV format.

To produce a video, do this:

1. Click the **Production** button, and then on the **Video File** tab if necessary.
2. Specify the **Output folder**, or the location where the produced video file is saved. Click  if you want to select another output folder or change the name of the produced file.



Note: if you have a CyberLink Cloud subscription you can select the **Upload a copy to CyberLink Cloud** option if you also want the program to upload the produced file to your CyberLink Cloud storage space after production.

3. **Select an output format (HEVC (H.265), AVC (H.264), MPEG-2 (.MPG), WMV (.WMV))** by selecting the corresponding button.



Note: if you select the **HEVC (H.265)** or **AVC (H.264)** output format, you must also select the container from the drop-down. You can choose from the **.M2TS**, **.MKV**, or **.MP4** container file format.

4. Select the **Profile name/quality** you want to use to create the file. If you are producing the video in the **.WMV** format, select the **Profile type**. This selection determines the video resolution, file size, and overall quality of the outputted file. See [Customizing Profiles](#) for more information.



Note: if you created a custom profile, it is available in **Profile name/quality** drop down when you select **Custom** in the **Profile type** drop-down.

5. Select the **Country/Video format (NTSC or PAL)** for your video. This format should correspond to the region in which you plan to play your video.
6. Configure the production options as required. See [Configuring Production Options](#) for more information.
7. Click **Start** to begin. CyberLink ColorDirector proceeds to produce and create the video file.







Note: if you selected to upload a copy of the produced file to CyberLink Cloud, ColorDirector will ask you if you want to convert it before uploading. Click **Yes** to convert it to an **.MP4** file that is playable on a portable device, or **No** if you want to upload the original produced file.

Customizing Profiles

After you select a file format for your outputted file, depending on the format you selected, there may be quality settings you can customize in the profiles section. These quality settings are called profiles, and can consist of a video file's resolution, bitrate compression, audio compression type, and more.

In the production options section you can:

- click  to create your own custom video profile from scratch.
- select an existing profile, and then click  to edit it to fit your requirements.
- click  to view a profile's details, or  to delete a custom profile you created previously.

Before you output your production, you may want to create a new quality profile, edit an existing one, or select a different existing profile, and other options from

one of the available drop-downs in the production options section.

Configuring Production Options

Before you begin producing your file, you can select from the following production options:

- **Enable preview during production:** select this option to preview your video during production. Selecting this option will increase the time required to produce your video file.
- **Hardware video encoding:** select this option to reduce production time. The **Hardware video encoding** option is only enabled if your computer supports hardware acceleration (NVIDIA graphics card that supports CUDA, an AMD graphics card that supports AMD Accelerated Parallel Processing, or a computer with Intel Core Processor Family technology), and you are outputting in a file format that supports it (H.264 and MPEG-4).
- **Intel Quick Sync Video:** if your computer supports Intel Quick Sync Video, and you are outputting in either the H.264, MPEG-4, or MPEG-2 format, this option is available. Select it to reduce production time.
- **Dolby Digital 5.1:** select this option if you want to include Dolby Digital 5.1 audio in your produced video file.
- **x.v.Color:** x.v.Color is a color system that can display a wider color range than usual. CyberLink ColorDirector can generate an x.v.Color-compliant stream, which is backward compatible with RGB displays, while offering the opportunity to achieve better visual quality if your playback environment is x.v.Color ready.

Sharing Videos


You can share the changes you made to the videos on the storyboard by uploading them to YouTube or Vimeo. To do this, click on the **Production** button and then select the **Online** tab.

Uploading Videos to YouTube

To upload your video to YouTube, do this:



***Note:** if the size/length of the your video exceeds the maximum allowed, CyberLink ColorDirector will separate the video into smaller/shorter videos, upload these videos, and then create a playlist for you on YouTube.*

1. Specify the **Output folder**, or the location where the produced video file that will be uploaded is saved. Click  if you want to select another output folder or change the name of the produced file.
2. Click the **YouTube Videos** button.
3. Select the desired quality of your video from the **Profile type** drop-down. The quality you select will result in the corresponding quality option being available after the video is fully processed on YouTube.



***Note:** the quality option available on YouTube is also dependent on the original captured video quality and the bandwidth of the user who is watching the video.*

4. Enter a **Title** and **Description** for your video in the fields provided. The text you enter is included on YouTube once uploaded. Also select one of the **Video categories** and enter in some keyword **Tags** that users can search for to find your video.
5. Set whether you want the video to be **Public** or **Private** once it is uploaded to YouTube.



***Note:** sign in to DirectorZone and then select **Share in CyberLink DirectorZone Video Gallery** if you want to show others how you adjusted the clips in your video production. When selected, an animated version of your project's storyboard displays, along with your uploaded video, on DirectorZone.*

6. Configure the production options as required. See [Configuring Production Options](#) for more information.
7. Click **Start** to begin.
8. Click **Authorize** and then grant CyberLink ColorDirector permission to upload videos to your YouTube account by following the steps in the YouTube Authorization windows.
9. CyberLink ColorDirector proceeds to produce and upload the video file. Click **Close** when done to return to the program.

Configuring Production Options

Before you begin producing, you can select the following production options:


- **Hardware video encoding:** this option is only enabled if your computer supports hardware acceleration (an AMD graphics card that supports AMD Accelerated Parallel Processing), and you are outputting in a file format that supports it.
- **Enable preview during production:** select this option to preview your movie during production. Selecting this option will increase the time required to produce your file.

Uploading Videos to Vimeo

To upload your video to Vimeo, do this:



Note: if the size/length of the your video exceeds the maximum allowed, CyberLink ColorDirector will separate the video into smaller/shorter videos, upload these videos, and then create a playlist for you on Vimeo.

1. Specify the **Output folder**, or the location where the produced video file that will be uploaded is saved. Click  if you want to select another output folder or change the name of the produced file.
2. Click the **Vimeo** button.
3. Select the desired quality of your video from the **Profile type** drop-down. The quality you select will result in the corresponding quality option being available after the video is fully processed on Vimeo.



Note: the quality option available on Vimeo is also dependent on the original captured video quality and the bandwidth of the user who is watching the video.

3. Enter a **Title** and **Description** for your video in the fields provided. The text you enter is included on Vimeo once uploaded. Also enter in some keyword **Tags** that users can search for to find your video.
4. Set whether you want the video to be **Public** or **Private** once it is uploaded to Vimeo.



Note: sign in to DirectorZone and then select **Share in CyberLink DirectorZone Video Gallery** if you want to show others how you adjusted the clips in your video production. When selected, an animated version of your project's storyboard displays, along with your uploaded video, on DirectorZone.

5. Configure the production options as required. See [Configuring Production Options](#) for more information.
6. Click **Start** to begin.
7. Click **Authorize** and then grant CyberLink ColorDirector permission to upload videos to your Vimeo account by following the steps in the Vimeo Authorization windows.
8. CyberLink ColorDirector proceeds to produce and upload the video file. Click **Close** when done to return to the program.


Configuring Production Options

Before you begin producing, you can select the following production options:

- **Hardware video encoder:** this option is only enabled if your computer supports hardware acceleration (an AMD graphics card that supports AMD Accelerated Parallel Processing), and you are outputting in a file format that supports it.
- **Enable preview during production:** select this option to preview your movie during production. Selecting this option will increase the time required to produce your file.

Chapter 10:

ColorDirector Preferences

To set your program preferences in CyberLink ColorDirector, just click the  button or press the Alt+C keys on your keyboard.

General Preferences

In the Preferences window, select the **General** tab. The available options are as follows:

Application:

- **Frame rate:** select the frame rate and TV format (NTSC or PAL) for your video. The frame rate should correspond to the source video footage being adjusted. The TV format should correspond to the region in which you plan to play your produced video (if you burn it to disc).
- **Drop frame timecode:** if your selected TV format is NTSC, select "Yes" to synchronize the timecode of your video to its video length in the storyboard panel.

Internet:

- **Automatically check for software updates:** select to periodically check for updates or new versions of ColorDirector automatically.

Language:

- **Use system default language:** select this option for the language display to be the same as the language of your operating system.
- **User defined:** select this option and then select the language from the drop-down list that you want to use.

Messages:

- Click the **Reset** button to reset all the "Never show again" checkboxes in the program's message dialogs back to the default settings. All of the message dialogs that contain the "Never show again" checkbox will display again after this button is clicked.

DirectorZone Preferences

In the Preferences window, select the **DirectorZone** tab. The available options are as follows:

Auto sign in:


- **Auto sign in to DirectorZone:** select this option and then enter in your e-mail address and password to automatically sign in to DirectorZone when the program is opened. If you do not have a DirectorZone account, click on the **Get an Account** button.

Privacy rules:

- **Allow DirectorZone to gather editing information:** select this option to allow DirectorZone to make a list of all the adjustments you made to the video clips when uploading them to social media web sites.

Color Preferences

In the Preferences window, select the **Color** tab. The available options are as follows:

- **Apply color look-up table:** select this option and then click  to import a color look-up table (CLUT) and apply it to all of the video clips on the storyboard. The imported color look-up table will be applied to all future imported video clips until you deselect this option or apply another color look-up table.



Note: see [Applying Color Look-up Tables \(CLUT\)](#) for more information on applying color look-up tables.

Hardware Acceleration Preferences

In the Preferences window, select the **Hardware Acceleration** tab. The available options are as follows:

Hardware acceleration:

- **Enable hardware acceleration for video decoding:** if your computer supports NVIDIA CUDA/AMD Accelerated Parallel Processing/Intel Core Processor Family technology, select this option to use hardware acceleration to decode the video during the adjustment process and when previewing videos.

Production Preferences


In the Preferences window, select the **Production** tab. The available options are as follows:

Produce:

- **Reduce video blocky artifacts (Intel SSE4 optimized):** select this option to improve the overall production quality of produced video, if your computer supports Intel SSE4 optimization.

CyberLink Cloud Preferences

In the Preferences window, select the **CyberLink Cloud** tab. The available options are as follows:

- **Back up and restore your preferences:** if you have a CyberLink Cloud subscription you can click **Back up to CyberLink Cloud** to back up program preferences and custom output profiles to CyberLink Cloud. Click **Restore from CyberLink Cloud** to replace your current program preferences with the ones you previously backed up on CyberLink Cloud.
- **Download folder:** click the  button to change the folder where CyberLink Cloud presets, projects, and media are stored when downloaded.
- **Clear CyberLink Cloud cache:** click the **Clear Offline Cache** button to free up some disk space by emptying the temp files stored when downloading content from CyberLink Cloud.
- **Sign out from CyberLink Cloud service:** if you are currently signed in to CyberLink Cloud, click the button to sign yourself out.



Note: click the **Account Information** link in the bottom right corner of the preferences windows if you want to know your CyberLink Cloud subscription expiry date, how much storage space you have, and more.

Chapter 11:

ColorDirector Hotkeys

The following is a list of the hotkeys available in CyberLink ColorDirector for your convenience:

Hotkey	Description	Module Available
File/Project Features		
Ctrl+N	Create new project.	All
Ctrl+Shift+W	New workspace and return to Library module.	All
Ctrl+O	Open existing project.	All
Ctrl+S	Save current project.	All
Ctrl+Shift+S	Save as a new project.	All
Ctrl+P	Pack project materials.	All
Ctrl+Q	Import video files.	Library
Ctrl+I	Import video folder.	Library
Alt+F4	Exit CyberLink ColorDirector.	All
Alt+C	Open CyberLink ColorDirector preferences window.	All
Workspace		
Alt+F9	Go to Library module.	Adjustment, Production
Alt+F10	Go to Adjustment module.	Library, Production
Alt+F11	Go to Production module.	Library, Adjustment
F6	Switch to viewer & storyboard mode in video viewer window.	All
F7	Switch to viewer only mode in video viewer window.	All
Alt+Z	Open video zoom list view.	Library, Adjustment
F	Go to full screen.	Library, Adjustment

Alt+1	Toggle show one mode on/off.	Adjustment
Alt+2	Toggle compare before/after mode on/off.	Adjustment
Alt+3	Toggle split left/right mode on/off.	Adjustment
Alt+4	Toggle top/bottom mode on/off.	Adjustment
Alt+5	Toggle split top/bottom mode on/off.	Adjustment
Ctrl+Alt+A	Toggle alternate mode on/off (secondary monitor only).	Adjustment
Ctrl+Alt+M	Toggle mirror mode on/off (secondary monitor only).	Adjustment
Ctrl+Alt+N	Select to display nothing on the secondary monitor.	Adjustment
Alt+B	Set video viewer background color.	All
F1	Open CyberLink ColorDirector help.	All
Shift+F12	View CyberLink ColorDirector hotkeys list.	All
Operational		
Ctrl+Z	Undo last adjustment setting.	Library, Adjustment
Ctrl+Y	Redo last adjustment setting.	Library, Adjustment
Ctrl+R	Reset adjustments to default settings.	Adjustment
Ctrl+A	Select all videos in the storyboard panel.	Library, Adjustment
Ctrl+D	Deselect all videos in the storyboard panel.	All
Ctrl+C	Copy.	Library, Adjustment
Ctrl+V	Paste.	Library, Adjustment

Delete	Remove the selected videos from the library/storyboard.	Library, Adjustment
Ctrl+T	Split the select video clip and the current location.	Library, Adjustment
Ctrl+Alt+T	Open the Trim window.	Library, Adjustment
Ctrl+Alt+D	Open the Detect Scene window.	Library/Adjustment
Home	Go to beginning of video clip.	All
End	Go to end of video clip.	All
Ctrl+Left Arrow	Go to previous clip/scene.	All
Ctrl+Right Arrow	Go to next clip/scene.	All
Left Arrow	-1 unit on the selected tool slider.	Adjustment
Right Arrow	+1 unit on the selected tool slider.	Adjustment
Shift+Enter	Add new keyframe.	Adjustment
Shift+Delete	Delete selected keyframe.	Adjustment
Ctrl+Shift+Left	Go to previous keyframe.	Adjustment
Ctrl+Shift+Right	Go to next keyframe.	Adjustment
M	Add timeline marker to the keyframe timeline.	Adjustment
Space Bar	Play/Pause video playback.	All
Ctrl+/'	Stop video playback.	All
Up Arrow	Scroll up when mouse over adjustment slider.	All
Down Arrow	Scroll down when mouse over adjustment slider.	All
, or Shift+Mouse Wheel Up	Go to previous frame.	All
. or Shift+Mouse Wheel Down	Go to next frame.	All
Ctrl+F	Fast forward video playback.	All

Ctrl+U	Access video volume control.	All
Ctrl+Backspace	Toggle mute on/off.	All
Shift	Uses straight line control to create horizontal and vertical lines when creating a selection mask.	Adjustment
Mouse Wheel Up	Increase motion tracking brush size.	Adjustment
Mouse Wheel Down	Decrease motion tracking brush size.	Adjustment
Alt+Mouse Wheel	Switch to and resize eraser when using the motion tracking mask brush.	Adjustment
Ctrl+Mouse Wheel Up	Zoom in on video viewer window.	Library, Adjustment
Ctrl+Mouse Wheel Down	Zoom out on video viewer window.	Library, Adjustment
Esc	Cancel regional adjustment/current action.	All
Ctrl+K	Show/Hide keyframe settings panel.	Adjustment
+	Zoom in on keyframe timeline.	Adjustment
-	Zoom out on keyframe timeline.	Adjustment
Shortcuts		
Alt+F	Open [File] menu.	All
Alt+E	Open [Edit] menu.	All
Alt+V	Open [Video] menu.	All
Alt+I	Open [View] menu.	All
Alt+H	Open [Help] menu.	All
Shift+F12	View hotkey list.	All

Chapter 12:

Licenses and Copyrights

Below are the applicable licenses and copyright information that pertain to the components listed in the List of Components.

Dolby Laboratories

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 2003-2005 Dolby Laboratories. All rights reserved.



Chapter 13:

Technical Support

If you require technical support, then this chapter can help. It includes all the information you need to find the answers you are looking for. You may also find answers quickly by contacting your local distributor/dealer.

Before Contacting Technical Support

Before contacting CyberLink technical support, please take advantage of one or more of the following free support options:

- consult the user's guide or the online help installed with your program.
- refer to the Knowledge Base at the following link on the CyberLink web site: <http://www.cyberlink.com/support/search-product-result.do>
- check the [Help Resources](#) page in this document.

When contacting technical support by e-mail or phone, please have the following information ready:

- registered **product key** (your product key can be found on the software disc envelope, the box cover, or in the e-mail received after you purchased CyberLink products on the CyberLink store).
- the product name, version and build number, which generally can be found by clicking on the product name image on the user interface.
- the version of Windows installed on your system.
- list of hardware devices on your system (capture card, sound card, VGA card) and their specifications. For fastest results, please generate and attach your system info using the DxDiag.txt.



Note: here are the steps to generate the system info DxDiag.txt file: Click **Windows (start) button**, and then search for "dxdiag". Click **Save All Information** button to save the DxDiag.txt file.

- the wording of any warning messages that were displayed (you may want to write this down or take a screen capture).

- a detailed description of the problem and under what circumstances it occurred.

Web Support

Solutions to your problems are available 24 hours a day at no cost on the CyberLink web site:



Note: you must first register as a member before using CyberLink web support.

CyberLink provides a wide range of web support options, including FAQs, in the following languages:

Language	Web Support URL
English	http://www.cyberlink.com/cs-help
Traditional Chinese	http://tw.cyberlink.com/cs-help
Japanese	http://jp.cyberlink.com/cs-help
Spanish	http://es.cyberlink.com/cs-help
Korean	http://kr.cyberlink.com/cs-help
Simplified Chinese	http://cn.cyberlink.com/cs-help
German	http://de.cyberlink.com/cs-help
French	http://fr.cyberlink.com/cs-help
Italian	http://it.cyberlink.com/cs-help

Help Resources

The following is a list of help resources that may assist you when using any of CyberLink's products.

- Access CyberLink's **Knowledge base** and **FAQ** (frequently asked questions): <http://www.cyberlink.com/cs-resource>
- View **video tutorials** for your software: <http://directorzone.cyberlink.com/tutorial/>

- Ask questions and get answers from our users on the **CyberLink Community Forum**: <http://forum.cyberlink.com/forum/forums/list/ENU.page>



Note: *CyberLink's user community forum is only available in English and German.*

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