CopySafe Video Encoder
Version 10.0

The **CopySafe Video Encoder** software caters for all scenarios.

- Video with **embedded settings** for CopySafe Video Player (Windows required).
- Video with **DRM** for CopySafe Video Player (Windows required).
- Video for online **Web** pages viewed by ArtisBrowser (all computers and phones).
- Video for **USB** viewed by ArtisBrowser (all computers and phones).

The CopySafe Video Encoder and CopySafe Video Player are primarily Windows applications, but they can be used on other operating systems by installing Windows in a VM solution eg: on Mac, Bootstrap can be used.

Note: To encode video to be played on all devices including Windows, Mac, iOS and Android phones, use the **Web** or **USB** options.

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1.   DRM vs. Copy Protection

They are not the same thing.

Copy protection is the prevention of the copy and reproduction of a video's content by preventing all exploits including PrintScreen, screen shots and screen recording.

DRM is the control of access rights to open and view a video's contents, thus preventing sharing and unauthorized distribution, ie: who can open and view.

CopySafe Video caters for both **Copy Protection** and **DRM** in a variety of scenarios.

2.   Installation

The CopySafe Video Encoder installer can be downloaded as a compressed (ZIP) file. Uncompress to produce the installer EXE, the user-guide in PDF format, and some sample files. The Encoder software is primarily Windows software, but it can be installed and run on any operating system by using a VM to install and run Windows. Download the installer from https://artistscope.com/download/Copysafe_Video_Encoder_install.zip

3. Licensing

Free Version

The CopySafe Video Encoder can be used for FREE for 14 days. For that time it can be used for all output types except those for DRM, Domain Lock and Watermark.

Licensed Version

Licensing for the CopySafe Video Encoder is a one-time fee that includes:
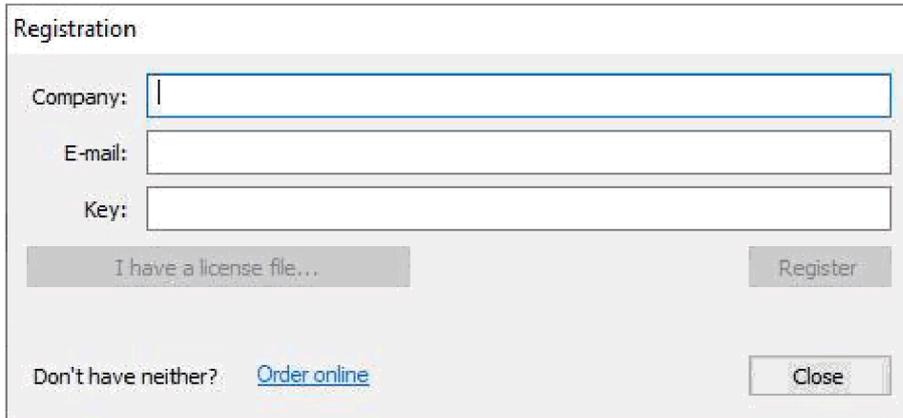- Unlimited use on one computer
- Up to 5 Domain Lock licenses
- Free use of the DRM portal for life
- Free upgrades and support for life

To purchase a license for your Encoder software please visit
https://artistscope.com/order/order_video.asp

 After purchasing online, you will be emailed with the license key and instructions for activating your software.

License Activation

Input English characters only. Include the hyphens in the KeyCode (no spaces at ends).

You will need to be online to activate your software for it to check our registration server. If registration fails it can be due to interference by faulty antivirus software or network security settings.

Activation should be immediate. However as a backup, your license file will be sent by email with further instructions.

Troubleshooting Activation

The Encoder needs to be allowed to send data to the Internet <u>and</u> receive a response.

Activation failure can be caused by anti-virus software interference in which case you may have to white list the installer, or disable the anti-virus during installation. When disabling anti-virus software, restart the computer to ensure that it is not running.

Another cause for failure can be network security settings. If you are on a corporate network that may be limited, and your network administrator cannot help, try connecting your computer to an alternative network, like your wifi at home to complete the activation.

If activation fails, check your email (including spam folder) for a license file and instructions. **Never submit again without first removing the registration data** stored on your computer at %APPDATA%\ArtistScope\CopySafe Video Encoder

3. Protection Features

CopySafe Video is the most secure copy protection solution for video ever imagined. It is beyond compare – all other solutions merely try to imitate it. CopySafe Video is very much more secure, more sophisticated and it caters for absolutely all scenarios.

Copy Protection:

- Prevents, PrintScreen, screenshots and all screen capture software.
- Encrypted video can only be viewed under your conditions.
- Videos can be Domain Locked to your website.
- Video files stored on the server can be safe from employees and hosting staff.
- Lossless encryption is military grade with no significant increase in file size.

DRM:

When DRM is applied the video cannot be shared. Copies of the file can be distributed but only those persons with the author's explicit permission to view will be able to open and view its contents.

Users are identified by their unique computers signature which gets registered on first use by providing the username and password provided by the author. Validation for subsequent use will then be automatic.

CopySafe Video caters for both online and offline DRM.

DRM Accounts

If DRM has been applied, then the authors/distributors of your video will provide a username and password to access the DRM Portal where you can keep your contact details up to date, find videos assigned to your account and check for updates.

The very first time that you play a DRM protected video, you will be required to provide your username and password. The DRM Portal will then log your Computer ID and be able to validate your access automatically for all future requests. Your account may be enabled for 1-3 computers as set by the author which may or may not be changeable without the author's intervention.

DRM permissions are granted by Group, eToken and by offline DRM Token.

eTokens and DRM Tokens:

When purchasing from the CopySafe Store, **eTokens** can be delivered by email to private special viewing permissions for select video/s (independent of Group permissions).

Viewing privileges can also be assigned by **offline DRM Token**. Their availability depends on the author. Such tokens can also be assigned for offline use – ideal for managing collections on USB.

To collect eTokens and DRM Tokens, the user needs to log into the DRM Portal using the ArtisBrowser for their unique signature to be recorded. Then they can download any tokens available to them from the indexes provided in their DRM dashboard.

Group Permissions:

Videos and users are managed by sorting into groups. For example all users belonging to say, your "Engineering" group, are entitled to view all videos that belong to that group. Videos and groups can be white listed to share multiple groups.

Domain Lock:

When encoding video for display online (on your web pages) the use of **Domain Lock** is most recommended because it locks your video to your website, ensuring that even if someone copies the video file itself, it cannot be played – domain locked video will only play when displayed on the website that owns them.

5. Working Scenarios

Regardless of how you want to distribute copy protected video, the CopySafe Video Encoder will provide options for all scenarios.

The most secure environment is in a corporate network

Most corporate networks are based on Microsoft solutions and being Windows based each computer or workstation can install and use the CopySafe Video Player which is a desktop application for viewing encrypted video as .asvp type files.

The .asvp files can only be opened by the **CopySafe Video Player** and by employing DRM, viewing them away from the computer that was authorized is impossible.

When video files stored on the server are encrypted and with DRM applied, they cannot be viewed by anyone not authorized - safe from other employees and webhosting staff.

Providing downloads for desktop viewing by the CopySafe Video Player

.asvp type videos can be distributed by download and on USB for viewing in the CopySafe Video player. DRM can be applied to only allow access for viewing by Group or DRM Token.

Group permissions are ideal for classroom and departmental management. Alternatively, Tokens can be assigned per individual or video - useful when selling "lessons" online.

An option that is ideal for mariners who spend a lot of time at sea without the Internet, is providing a "collection" of videos on USB with an offline DRM Token for rights to view.

Selling lessons and courses online

Regardless of where you sell your video, deliver CopySafe Video file/s compressed (ZIP).

CopySafe Video protection is so extensive and versatile that videos can be fully protected in every usage scenario imaginable. For example, some common types of usage:

- Display video online that cannot be displayed from any other web site.
- Send video attached to email that cannot be copied or shared.
- Deliver video by download from a web site that cannot be copied or shared.
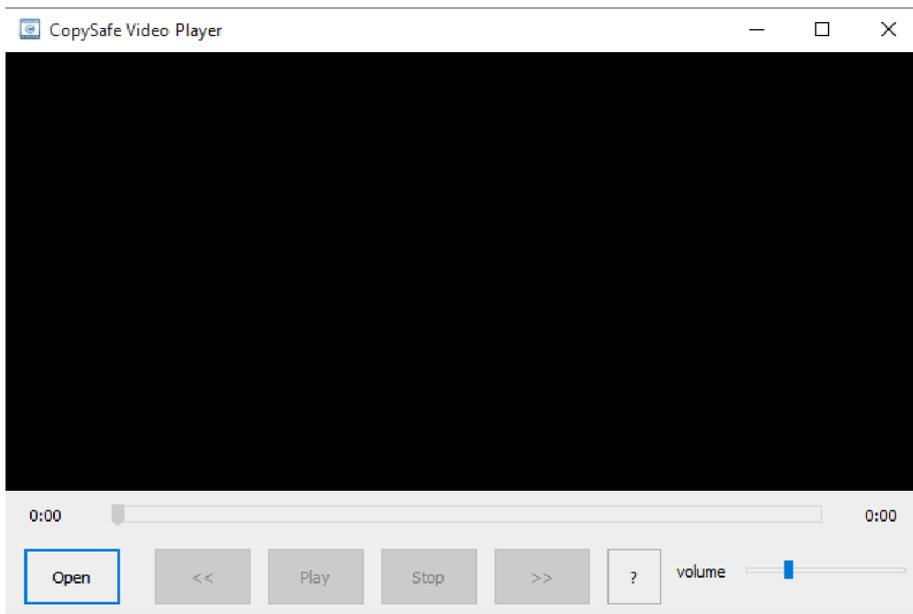- Distribute video on CD and USB memory sticks that cannot be shared.

Preventing unauthorized distribution and sharing:

Permission to play your videos can be limited per user and per disk, with total control to make any changes that will have immediate effect, even on videos already distributed and/or saved to a user's computer.

Protection from all copy, capture and recording:

ArtistScope copy protection properly manages computer memory to provide real protection from all methods and devices that can be used to copy images and video.

6. CopySafe Video Player

The **CopySafe Video Player** is of generic design without any branding so that it can be delivered as part of your project and distribution.

The player includes all of the usual functions and controls for resizing on the desktop, enlarging to fullscreen and collapsing to the tool bar, plus pause, resume, forward and sound controls.

The player can be launched automatically to play a protected video by simply double-clicking on the video file.

The CopySafe Video Player is a desktop media player that can display protected video with or without DRM applied (author's choice). When DRM is applied videos can be distributed with Token files enabling the user to play the video even when offline (without an Internet connection). If a DRM is applied and a Token is not found then the video will seek permission from the author's online DRM portal.

The **CopySafe Video Player** is a desktop video player and a Windows application, but it can be used on other operating systems (OS) by running Windows in a VM, like Bootcamp on Mac computers.

To distribute copy protected video that can be viewed on all devices including mobile phones, encode using the **Web** or **USB** options that can be viewed by the **ArtisBrowser**.

7. ArtisBrowser

The ArtisBrowser is a secure web browser especially designed for DRM and copy protected media displayed on web pages.

The ArtisBrowser takes over where all other web browsers fail – they cannot decrypt CopySafe media and they cannot prevent screenshots or screen recording which is actioned at system level on the device, whether that be computer or mobile phone.

ArtisBrowser is available for:

- All Windows computers since version 7 (legacy version is available for XP).
- All Mac OSX computers since version 10.15.
- All iOS devices including iPad and iPhone mobiles.
- All Android mobile phones.
- All Linux computers running Ubuntu (coming soon).

8. Download Links

The download page for **ArtisBrowser** caters for all languages and will provide the download link for the version best suited for the user's device – https://artisbrowser.com/download/

The download link for the **CopySafe Video Player** is https://artistscope.com/download/Copysafe_Video_Player_install.zip

Note: Providing downloads from your website or bundling the software on USB or DVD is NOT recommended because the user will not be getting the latest versions – and it is the latest versions that will be more secure and more effective for protecting your content.

By using CMS plugins, like the CopySafe Video plugin for WordPress, you can set minimum version requirements for each operating system (OS).

9. CopySafe Video Encoder

The CopySafe Video Encoder imports by single file nomination or by folder nomination, and caters for all popular video formats including ASF, AVI, MP4, MKV and WMV.

Source File vs. Folder

When selecting **Folder** all suitable file types found in that folder will be encoded.

Target Location

All encoded videos and related drm/html templates will be saved to this folder.

The lower text field will display the filename/s that were processed.
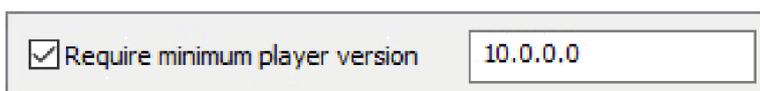
10. Embed Settings - desktop view by CopySafe Video Player

By using **Embed settings**, options for password, watermark, etc are embedded in the video file itself. The video file will be **.asvp** file type and can only be viewed by using the CopySafe Video Encoder.

Minimum Player Version

Most recommended to ensure that the user's **CopySafe Video Player** can support the latest features introduced in this version of Encoder.

11. DRM - desktop view using the CopySafe Video Player

The **DRM Portal** for authors and your subscribers is at https://copysafe.net/drm/

When DRM is applied, users require the author's explicit permissions to open and view the video. Those permissions can be assigned by being a member of the Group that the video belongs to, by being assigned an **eToken** by the author (usually following a sale from the CopySafe store), or by downloading an **offline DRM Token** (is allowed by the author).

The Encoder will create the encrypted video file as **.asvp** type, and also create a **.txt** file that needs to be uploaded to register the video in the DRM portal.

Offline DRM Tokens can be created to include a collection of videos. For example, by nominating "Engineering" all videos that include your author ID and "Engineering" will be allowed to play. The author ID and collection name are embedded into the encrypted file and cannot be exploited.

Users can collect offline DRM Tokens (if assigned) by logging into the DRM Portal while using the ArtisBrowser.

Note: All DRM Tokens need to be saved to the same folder that holds the video files.

12. WEB - online viewing by ArtisBrowser (for all devices/OS)

Choose the site for your **Domain Lock**, or leave blank for none. Using Domain Lock is most recommended because it prevents people from saving the video file and displaying elsewhere.

Choosing the **WEB** option will encode video files in .class file format and provide a html template for the its web page.

WEB format videos can only be displayed from a website. You can use the provided templates provided for the code to use on your web pages, or you can use a CMS plugin that we provide. The CopySafe Video plugins are available for WordPress, Moodle, Drupal and Joomla. See https://artistscope.com/copysafe_video_protection.asp#cms

Note: Because most modern websites now use a membership/subscription login system, DRM options are not available for WEB deployment.

13. USB - local viewing by ArtisBrowser (for all devices/OS)

The **USB** option is for publishing video stored on USB or DVD. **No DRM** means that anyone can open and view these web pages. However copy protection still applies. The Encoder will encrypt the video files as .class type and provide a html page that displays each one.

DRM can be applied to **USB** video files. If the user is online at the time he can use the **Group** permissions provided by the **DRM Portal**. If not online (no internet) he can use an **offline DRM Token** (if allowed by the author).

This option is ideal for bundling 100s of videos on a USB for merchant seamen who have limited access to Internet.

The Encoder will encrypt all selected videos, provided web pages for each and create a .txt file to upload for registration in the DRM Portal.

To use offline DRM Tokens, they firstly need to be allowed by the author, and if available, the user needs to be online while using the ArtisBrowser to claim and download the offline DRM Token.

Note: All DRM Tokens need to be saved to the same folder that holds the video files.

14. Domain Lock and File Storage

Domain Lock ensures that video can only be played on web pages belonging to the website that is nominated at the time of encoding. Site ownership is embedded inside the encrypted video file and cannot be exploited. However it applies to the website displaying the video, and not the website hosting the video, like in the case of file servers and CDNs.

File storage services and CDN can used. CopySafe Video files can be hosted anywhere.

By applying **Domain Lock to** CopySafe Video files, one is not only assured that web hosting staff cannot use them, but they are safe from employees as well.

15. Online DRM Portal

The **DRM Portal** is provided for FREE to all licensed users of the CopySafe Video Encoder software. Author accounts are unlimited in the number of subscribers, groups and videos that can be registered and managed. Features provided for Authors:

- Online book cover design – create book cover images online.
- Online store – no fees or commissions on sales.
- Manage unlimited number of user, groups, videos, DRM tokens, etc.
- No fees or support contract required.
- Free support for life.

Subscribers can log in at anytime to update their contact details, download media that has been assigned to them and claim DRM Tokens when available.

16. Templates

HTML templates are created for **USB** and **WEB** output.

HTML video width in pixels:	800

Here you can set the desired **width** setting for your html pages. The Encoder will then get the actual width and height of the video file, calculate its proportion ration, and adjust the height while allowing for the depth of the player's toolbar.

You can use those values as a guide for WordPress (CMS) plugin settings.

17. Evaluation & Testing

While there are many online demos provided on the CopySafe Video page at https://artistscope.com/copysafe_video_protection.asp#demos most will want to test using their own videos and on their own website.

To create your own CopySafe Video files the Encoder can be downloaded and used for FREE from https://artistscope.com/download/Copysafe_Video_Encoder_install.zip

Or you can download a set of test files from

To evaluate the DRM Portal you can create a demo account at https://artistscope.net/video/register.asp - as a demo it won't allow access to all features, but you can upload and register video, test it as an approved user and as an unapproved user, and check out the extensive user-guides provided from your online dashboard.

You can also download a plugin for your web site from https://artistscope.com/copysafe_video_protection.asp#cms

18. Support

For advice and assistance for your project, simply email us from our contact form at https://artistcope.com

But do try to explain the scenario and what you are trying to do in as much detail as possible for us to understand. For example, which software are you using and what your project requires?

19. Troubleshooting

An error can sometimes be encountered when encoding video files stored in locations like **OneDrive**. If such errors occur, move the video files to a normal folder on your hard drive.