



EYEWITNESS FORENSIC – FORENSIC VIDEO REPORT Manual

Version 4.0

EWITNESS FORENSIC – FORENSIC VIDEO REPORT Manual

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1 Introducing

In forensic examinations of hard disks, cell phones and any other digital media, the examiner will get more and more problems with the increasing amount of data. Picture files and video files must be shown, examined and printed for court use. If you get large amount of files with giga or terra bytes of data this cannot be handled without help of some forensic tools and the preview of a video will often be a problem due to different codec's used. So this software can help you to speed up your forensic work.



Forensic Video Report is the tool for doing your work faster as you can imagine. Forensic Video Reports generates 3 Picture Video Previews or Full PDF Report Files.

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2 Installation

Start FVRSetup.exe for Installation.

The Setup will guide you through the setup routine. While Installation you can see Update Changes in Info Window.

After Installation you can run the program.



Please note that a actual .NET Framework Package (Version 3.5) from Microsoft is necessary to run Forensic Video Report!

To use Forensic Video Report it is necessary to have direct x codec's for any video format installed. Forensic Video Report supports any video which you can play in Windows® Media Player®. You will find Codec Packages at: <http://www.codecguide.com/>
Using MPlayer Mode does not need extra codecs, see MPlayer Mode for details!

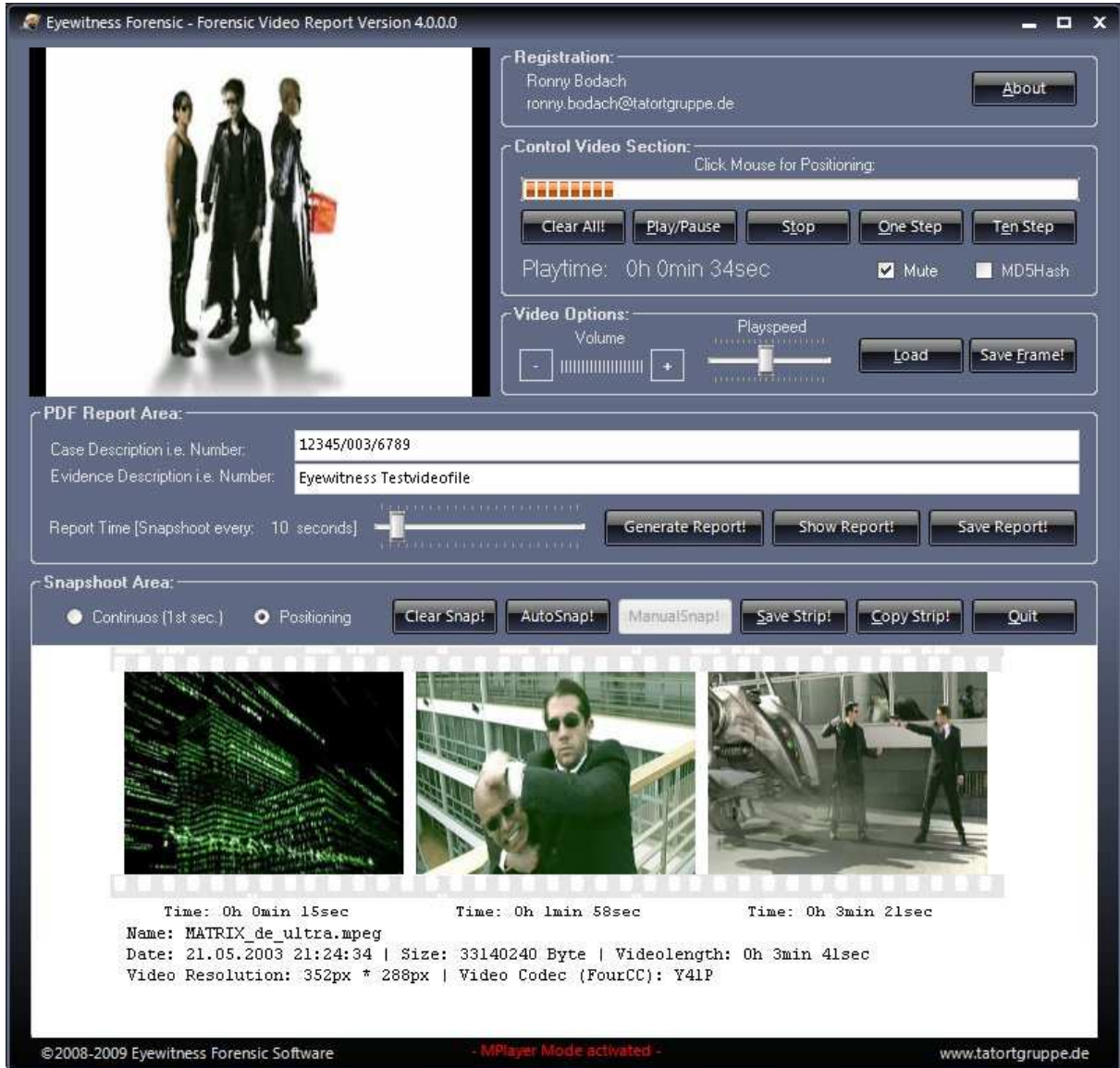
3 Start Forensic Video Report

By clicking the Forensic Video Report Icon on desktop you can start the application.

At first startup the application starts as unregistered version. Saving and Copying of 3 Picture Previews are not allowed in this state. All Reports can be saved but will be marked with an unregistered mark.

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4 Main Window



4.1 Registration and Configuration

With a double click at REGISTRATION you can open the configuration window. There you can set the registration key which you get per email. If you press CONTROL key while double clicking the registration website will open in default browser.

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The Snapshot Init Value is a time constant needed to snap MPEG2 Video Snapshots. If you have some trouble with MPEG Videos, like double snaps or black frames just increase this value. Standard of this is 1500.

The video positioning values are used for auto snapping mode and set the percent for video position of the snap.

Changing *Video Engine Setup* kann you can switch to Mplayer Mode. You only need any local instaled MPlayer Version. After selecting MPlayer program directory you can sitch from DX 9 VMR to MPlayer mode. A program restart is necessary! In Main Window there will be a Mplayer Mode sign at the bottom to show MPlayer mode is activated.

The row *Current User Application Directory* are for information purposes only.

4.2 Control Video Section

The Control Video Section contents all buttons like a standard video player.

[Load] will show the file open dialog where you can select any file type. But only videos can be played!

You can also quickly use the drag and drop to load a video file.

[Play/Pause] plays the Video.

[Stop] stops the Video.

[One Step] steps one frame forward

[Ten Step] steps ten frame forward (for quick positioning)

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- Mute enables or disables the sound (standard is off).

Above the video player buttons you can set the video position for playing, also while playing video.



Positioning the video is time slapping, be patient!

- MD5 Hash

If this option is set, the new video file will be hashed.



Because MD5Hasing is long time term you can disable hashing for new videos, for example if file is DVD *.vob Video file.

4.3 Video Options

In video options you can set volume and play speed. The play speed can be set up from 0,1 to double speed. WMV Video Codec's does not support play speed changes! With CONTROL+Click on speed bar you can set speed back to normal.

[Save Frame!] Saves the actual frame you see in video preview window as *.jpeg in video original size.

4.4 Quit Forensic Video Report

[Quit] closes the application.

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5 PDF Report Area

With Forensic Video Report, you will be able to generate PDF Report files of the whole video file rather than a 3 picture video preview. The Video Engine will do Video Frame Shoots at a selected snapshot time and do save them in the report frame after frame.

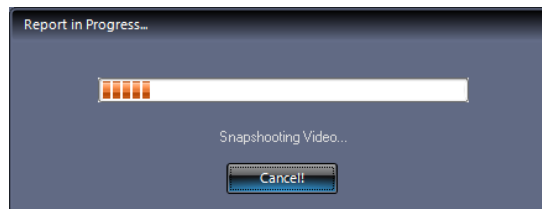
Case / Evidence Description i.e. Number are two text fields for Report Information which will be listed in the report header with the report date and examiner. Here you can put your case file number and the evidence number too. It is necessary to write in these fields, because report generation does only start with entries in these fields!

You can select the video snapshot time by yourself.



Settings are from 5 till 120 seconds. Shorter videos need smaller snapshot time.

With the Button [Generate Report!] the Report will be written as PDF file.

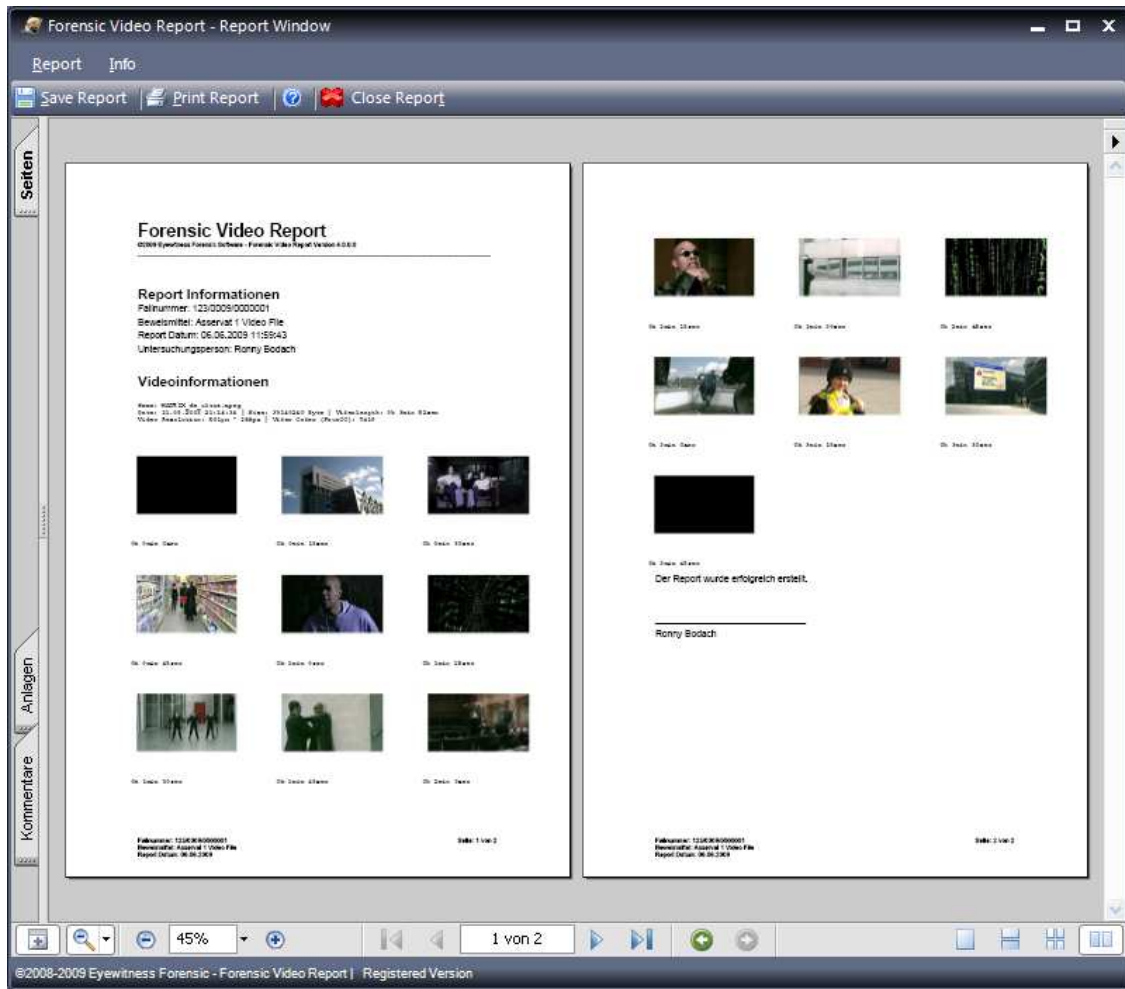


The Report Window will open after Report is done..

5.1 Showing Reports

Here you will be able to see, print or save the report, which is done by scanning.

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5.2 Saving Reports

With [Save Report] or menu Report [Save Report] you can save the report as standard PDF file (*.pdf). So you can show it in Acrobat™ Reader once again.

5.3 Printing Reports

With the button [Print Report] or menu Report [Print Report] the report can be printed. Into the printer dialog you will be able to set the printer, like any others in Microsoft Windows.

5.4 Editing Reports

It is not possible to edit Reports.

5.5 Quit Report Window

[Close Report] or Menu Report [Close Report] closes the report window.

6 Snapshot Area

6.1 Making the video preview

There are two ways for snapping a 3 picture preview. You can automatic get a snap or by manual.

[Auto Snap!] Starts the automatic function and you can see the three video snaps as video preview. Based on the snapshot ini values you can set in configuration.

The manual preview gets the preview from the actual shown video position. Once you click [Manual Snap!] a video preview snapshot will be done. After last snap the button disappears.



If you will get a special video frame wind to position and set pause. Now you can manual snap video frame. Sometimes the actual frame will not be the same like the snapped frame; this can be happen with MPEG Files. This is a MPEG Video Codec problem which cannot be solved.

6.2 Autosnap options

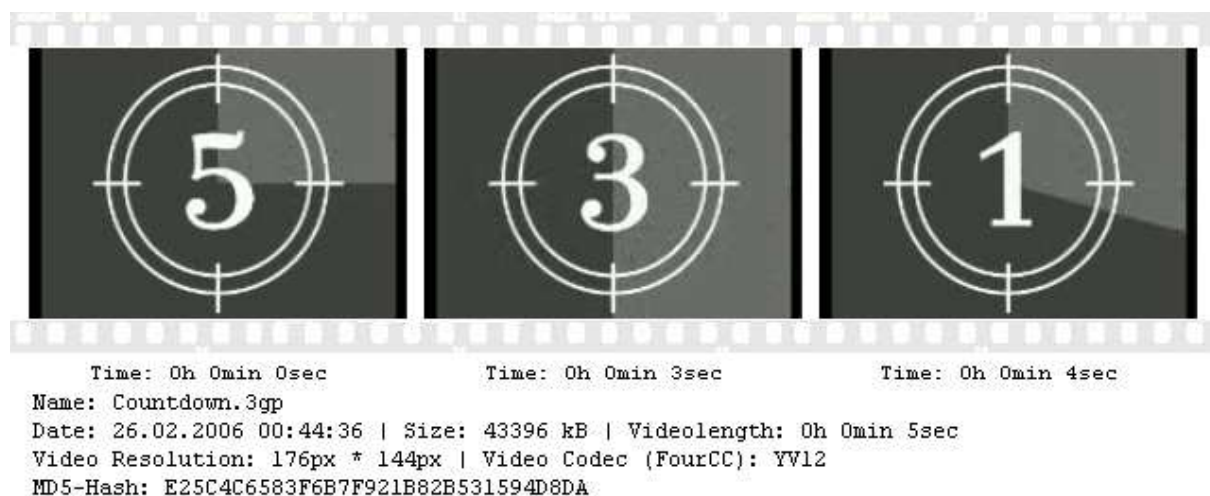


You can do a automatic video preview in continuous or positioning way. “Continuous” snaps three frames from the beginning of the video. “Positioning” snaps three frames from the position set in configuration.



If there are errors with the videos, so update your video codec’s or increase snapshot init value (see chapter 6.)

The Preview of the video show like this:



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Following video formats are supported: .avi, .asf, .divx, .dv, .flv, .m1v, .m2v, .mkv, .mov, .mp4, .mpg, .mpeg, .mpeg1, .mpeg2, .mpeg4, .3gp, .mov, .mp4, .mpe, .ts, .ps, .ogm, .vob, .wmv.

6.3 Clear functions

[Clear Snap!] clear the generated video preview .



You need to clear the snap before manual snapping a preview.

6.4 Save and copy a video preview

[Save Strip!] Open the Save Dialog where you can save the video preview as *.jpeg .

[Copy Strip!] Copy the video preview in clipboard.

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7 MPlayer Mode

Since program version 4.0 you be able to use a installed MPlayer to do video snappshooting. So Forensic Video Report is able to work without installed dx video codecs and without vmr9 support, like in VM Ware, Virtual Box or Virtual PC.

You can turn on MPlayer mode in configuration window. After program restart MPlayer mode will be activated.

Using MPlayer mode will lower videoplayer functions. You will not be able to use sound and real video play, but full video snappshooting support.

You can download MPlayer at www.mplayerhq.hu/ because MPlayer is not delivered with Forensic Video Report!

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8 Command line mode

Forensic Video Report are able to receive command from MS-Dos command line. There are three parameters to send to the application, so a automatic snapshooting can be done. Example of a call:

```
C:\>"Forensic video report.exe" "Drive\Path\Videofile" "Drive\Path\Stripfile" -MD5
```

Parameter 1 Videosource File

Parameter 2 Target (Strip File) in Jpeg format is optional (If Parameter is missing, the application opens only with video and Parameter 3 is disabled)

Parameter 3 –MD5 is optional and disbales MD5Hash generation



So you can use the application within other forensic tools. In example for ILook as Custom Video Viewer.

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9 X-Ways Forensics Wrapper

Forensic Video Report can be integrated as external viewer in X-Ways Forensics and it can be replace the *MPlayer*© or *Forensic Framer*©, to do an videopreview in "Forensic Video Report format".

You only need to use the X-Ways Forensics Wrapper for Forensic Video Report. You can download this addon at our website:

<http://www.tatortgruppe.de/ewf.shtml>

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10 Support

10.1 Contact Information

If you encounter any errors or problems write to support email:

Ronny.Bodach@tatortgruppe.de

or look at the FAQ's a tour website:

www.tatortgruppe.de

We will help as soon as possible.

Best success at your evidential work!

Yours

Ronny Bodach

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Forensic Video Report uses Krypton Toolkit® for Skinning Application.

Forensic Video Report uses DirectShow Interface Library, which is licensed under GNU LGPL.
For further information look at: <http://sourceforge.net/projects/directshownet/>

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