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FORENSICS

XT_RAW 1.12



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2.1 What are X-Tensions?

X-Tensions are programs loaded during volume snapshot refinement thus extending the functionality of X-Ways Forensics. An X-Tension can be programmed using any environment as long as it is able to create DLLs. In most cases this leads to a huge performance-increase compared to scripting-languages. Also the API is straight-forward and constantly enhanced. At present there exist implementations for Delphi, Visual C++ and Visual C#.

2.2 What is XT_RAW?

XT_RAW is an X-Tension that is able to detect and convert a vast amount of RAW-images made by digital cameras. By definition a RAW-file is an uncompressed file with no header. If you have the parameters (e.g. resolution and bit-depth) you can also display it.

RAW-files made by digital cameras are lossless stored images, mostly compressed including additional information (e.g. exif-data, camera-profiles, metadata).

XT_RAW is able to detect, tag and convert many of those RAW-files to a more versatile format (JPG).

XT_RAW is available as an x32 (XT_RAW32.dll) and x64 (XT_RAW64.dll) application.

2.3 Requirements

XT_RAW requires X-Ways Forensics v18.1 or higher. X-Ways Forensics v19.1 or higher is recommended for performance-reasons.

Section 3.1 lists extensions XT_RAW searches for during volume snapshot refinement. Section 3.2 is a non-exhaustive list of RAW file-types that are detected by file-type signatures. Section 3.3 is a non-exhaustive list of RAW file-types that can be converted to JPG.

3.1 Detection by Extension

3FR, ARI, ARW, BAY, CAP, CINE, CR2, CRW, CS1, CS16, CS4, DATA, DC2, DCR, DCS, DNG, DRF, DSC, EIP, ERF, FFF, HDR, IA, IIQ, K25, KC2, KDC, MDC, MEF, MFW, MOS, MRW, NEF, NRW, OBM, ORF, PEF, PPM, PTX, PXN, QTK, R3D, RAF, RAW, RDC, RMF, RW2, RWL, RWZ, SR2, SRF, SRW, STI, TIF, TIFF, X3F

3.2 Detection by Header

ARW, CR2, CRW, DCR, FFF, MOS, MRW, NEF, NRW, ORF, PEF, RAF, RAW, RW2, RWL, SRW, X3F

Unknown RAW-formats that use the same file-type header are also supported.

3.3 Conversion to JPG

ARW, CR2, CRW, DCR, DNG, ERF, KDC, MDC, MEF, MRW, NEF, NRW, ORF, PEF, RAF, RAW, RW2, SR2, SRF, SRW, TIF, X3F¹

Unknown RAW-formats that use the same storage-format are also supported.

¹There may be variants of the above formats that can't be converted

Installation and Usage

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Installing and using the XT_RAW X-Tension requires a few easy steps. At first you have to check the checkbox (Figure 4.1 - 1) and click on the appearing three dots (Figure 4.1 - 2).

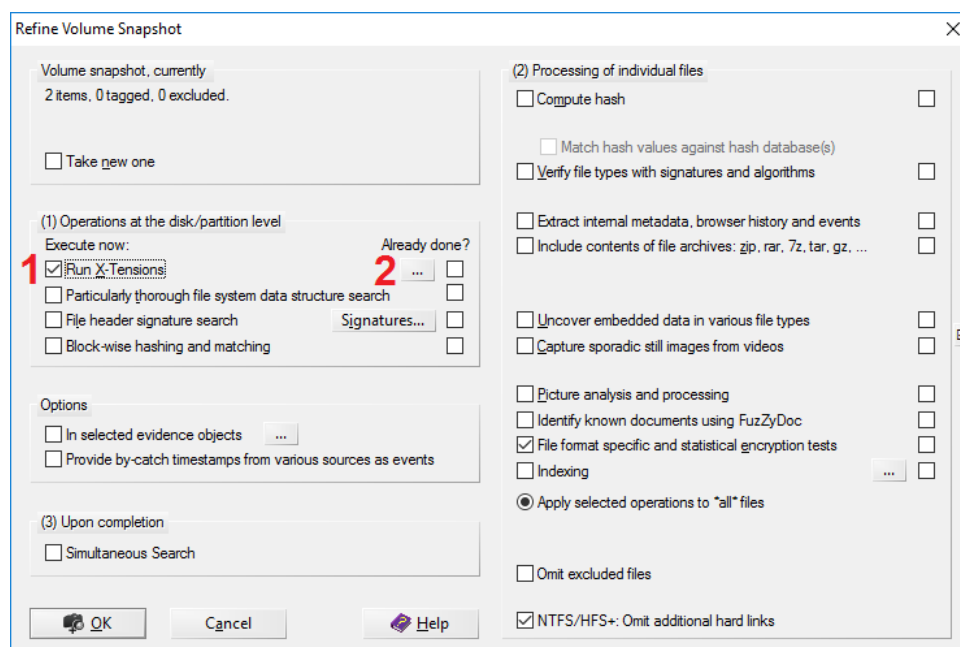


Figure 4.1: Volume Snapshot Refinement Window

Then click on the '+'-symbol (Figure 4.2 - 1) in the newly appeared X-Tensions window and select the XT_RAW DLL-file stored on your storage-device. Please select XT_RAW32.dll if you are using an x86-version of X-Ways Forensics and XT_RAW64.dll for the x64-version.

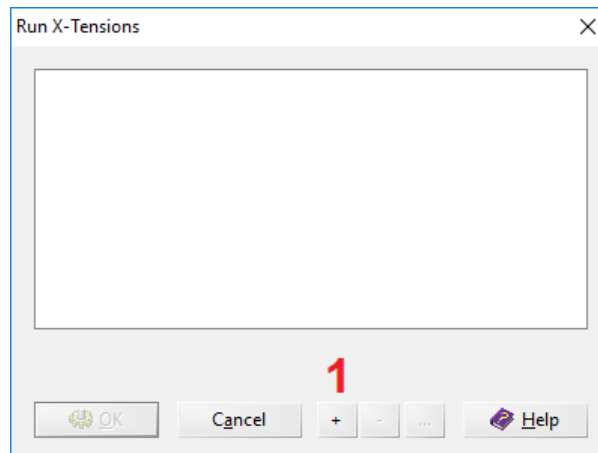


Figure 4.2: X-Tensions Window

After the X-Tension was loaded (Figure 4.3 - 1) you can either use it by clicking the OK-button (Figure 4.3 - 2) or enter the XT_RAW dialog by clicking the button with the 3 dots (Figure 4.3 - 3).

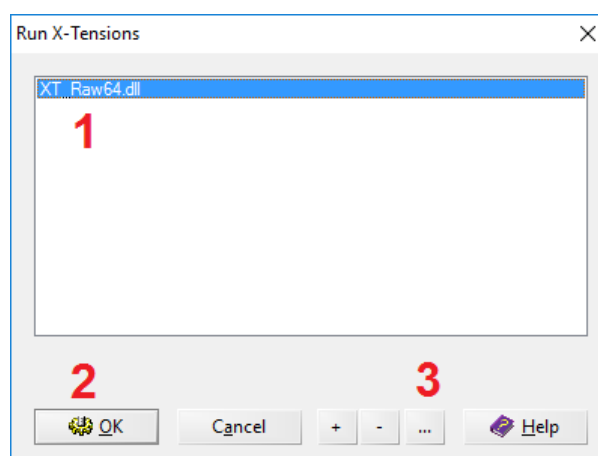


Figure 4.3: X-Tension Loaded

The settings of the XT_RAW X-Tension can be changed by clicking the 'settings'-button (1) in figure 5.1. The license-ID can be copied to the clipboard by clicking on 'COPY ID' (2). This ID is required when ordering a full license.

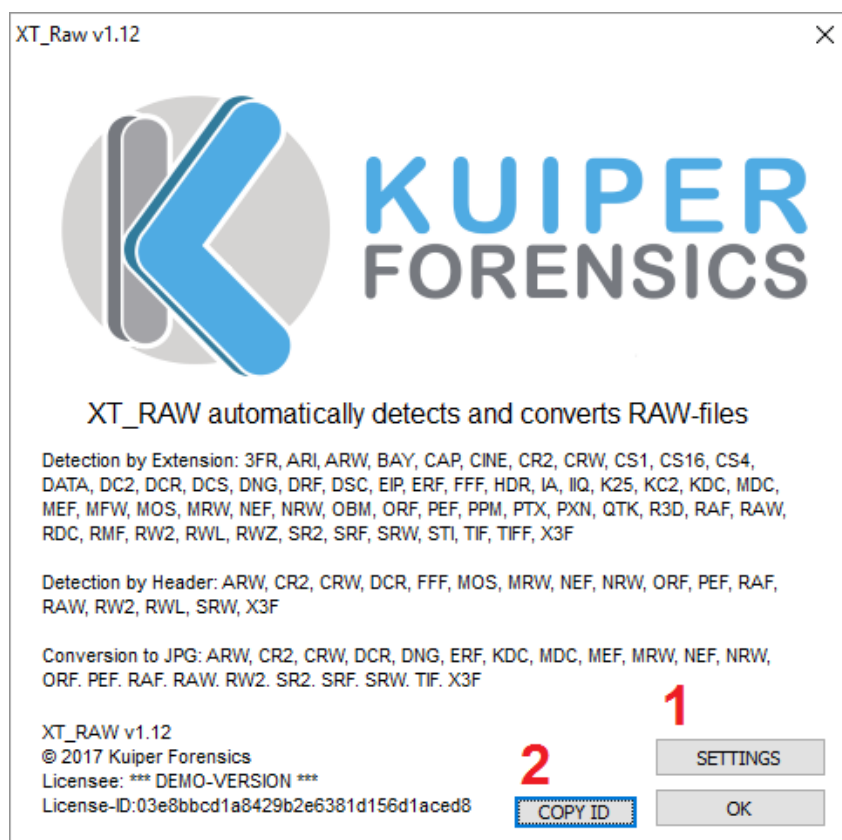


Figure 5.1: XT_RAW Window

The settings-window is shown in figure 5.2 and explained below.

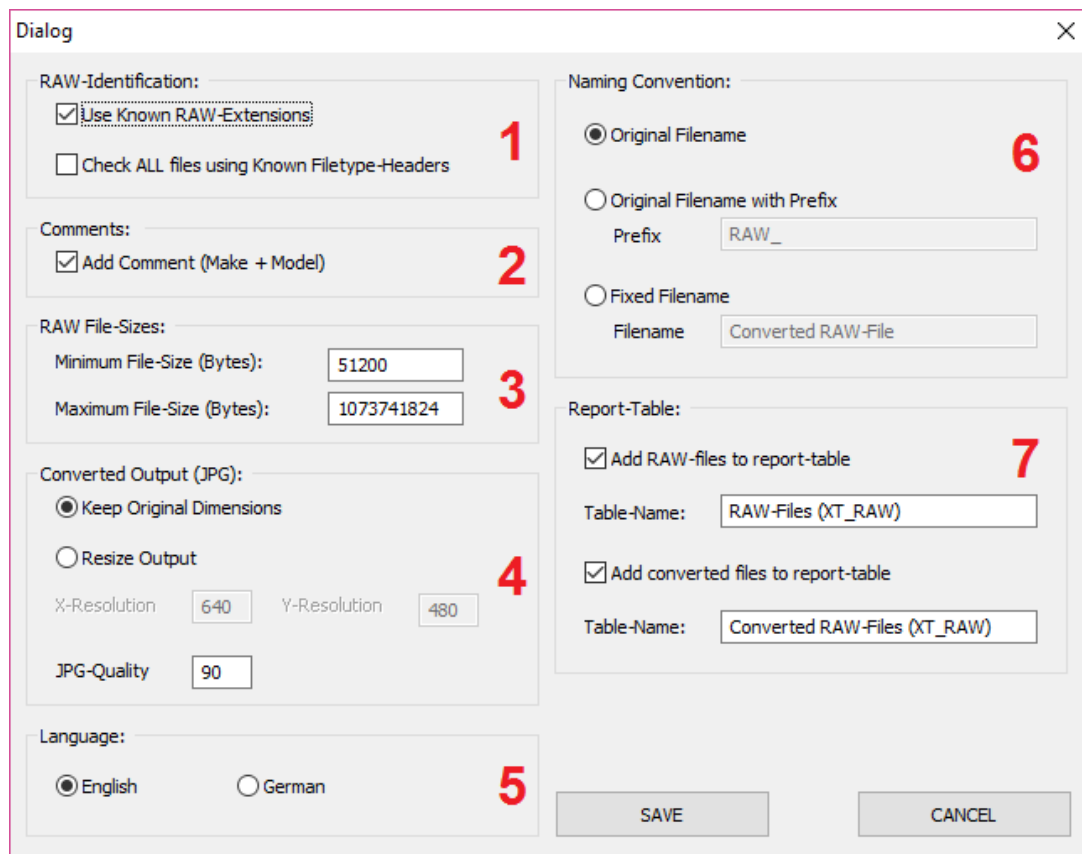


Figure 5.2: XT_RAW Settings Window

1. Detect RAW-files by extension and/or using known filetype-signatures.
2. Adds a comment (make and model of the camera) to the original RAW-file.
3. Definition of minimum and maximum file-sizes. Smaller and larger files are ignored.
4. Quality and resolution can be changed. This will speed up evaluation in most cases.
5. Interface-Language either in German or English
6. Name of the converted, attached file is either original filename, the original filename with a prefix or a fixed name for all converted files.
7. The detected RAW-file and/or the converted RAW-file (JPG) can be added to a report-table. By default this is activated.