



Elecard Video Format Analyzer v.1.2

User Guide

Notices

Elecard Video Format Analyzer v.1.2 User Guide

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1. Introduction

1.1 Preface

Elecard Video Format Analyzer is a tool designed for extraction and viewing of metadata contained in AVI (AudioVideo Interleaved), MP4, and MKV files.

1.2 Describing Elecard Video Format Analyzer

The following section defines the Elecard Video Format Analyzer specifications and features.

1.2.1 Supported Media Types

Elecard Video Format Analyzer supports the following formats:

- AVI
- MP4
- MKV

1.2.2 Features

Elecard Video Format Analyzer implements the following features:

- Metadata extraction and visualizing as tree-type list. The list specifies size and offset (from the file beginning) for each metadata segment.
- Descriptions for headers and values provided with the RIFF-AVI, MP4, and MKV data format.
- Hexadecimal preview mode for file and its parts corresponding to specified metadata segments. Offset from the file beginning and text representation are available for the previewed data.
- Ability to interrupt the parsing process in case of need.

1.3 System Requirements

- Windows® 2000/XP/2003 Server/Vista/7
- Microsoft .NET Framework 4.0 (or higher)

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2. Using Elecard Video Format Analyzer

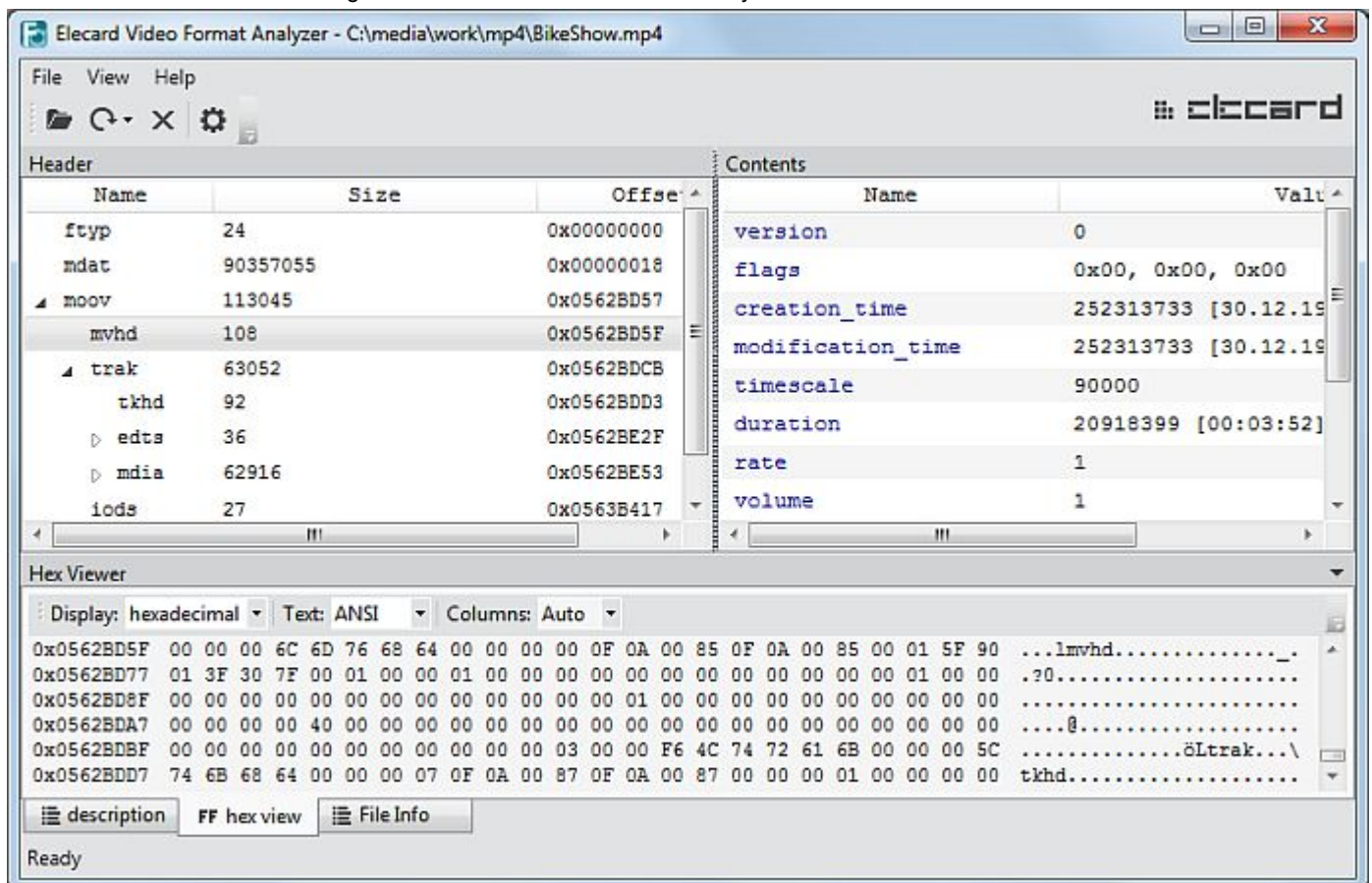
2.1 Introduction

The following section describes the Elecard Video Format Analyzer GUI (graphic user interface).

2.2 Describing Elecard Video Format Analyzer GUI

The Elecard Video Format Analyzer main window is presented on the following figure.

Figure 1. Elecard Video Format Analyzer GUI – Main Window



2.2.1 Menu

The main window menu commands are described in the following table.

Table 1. Elecard Video Format Analyzer GUI - System Menu

Command	Description
File->Open	Opens media file for parsing.
File->Recent files	Displays the list of recently opened files.
File->Exit	Quits the program.
View->HEX-view	Switches the main window lower panel to the HEX viewing mode.
View->Description	Switches the main window lower panel to the Description mode.
View->Settings	Opens the Settings dialog box.
Help->Context	Displays the program help information.
Help->About	Displays the program version and copyright information.





2.2.2 Toolbar

Figure 2. Elecard Video Format Analyzer GUI - Toolbar



The following table describes the Video Format Analyzer **Toolbar**.

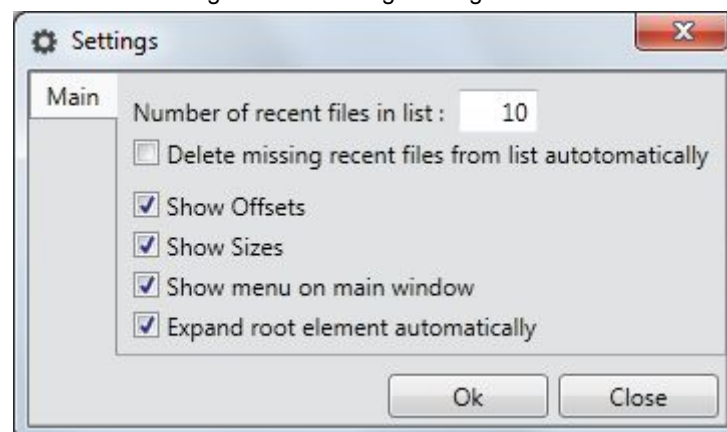
Table 2. Elecard Video Format Analyzer Toolbar

Button	Function
 Open file	Opens media file for parsing.
 Recent files	Displays the list of recently opened files.
 Close file	Closes the current file.
 Settings	Opens the Settings dialog box.

2.2.3 Settings

The **Settings** dialog box allows the program adjustment.

Figure 3. Settings Dialog Box



The following table describes the Video Format Analyzer **Settings** dialog box.

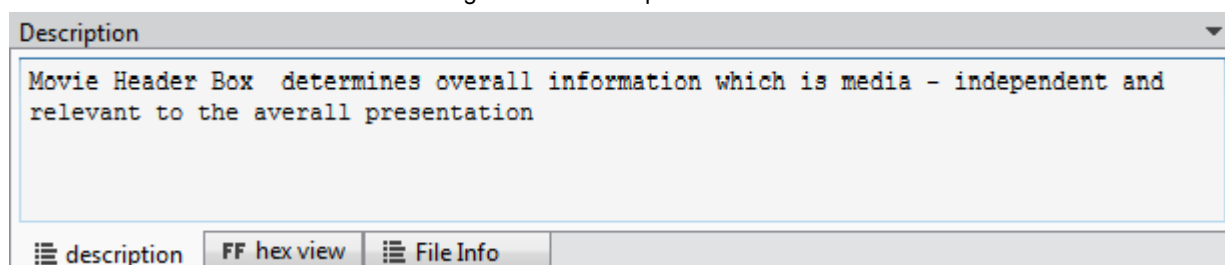
Table 3. Settings Dialog Box Controls

Control	Description
Number of recent files in list	Specifies number of files that are displayed in the Recent Files list.
Delete missing recent files from list automatically	Enables/disables automatic (without the user confirmation) removing of missing files from the Recent Files list.
Show Offsets	Enables/disables displaying of offsets in the <i>Headers</i> element.
Show Sizes	Enables/disables displaying of sizes in the <i>Headers</i> element.
Show menu on main window	Enables/disables the main window menu displaying.
Expand root element automatically	Enables/disables automatic root element expanding in the <i>Headers</i> element.

2.2.4 Description Panel

The **Description** panel displays description for the header selected in the tree-type list.

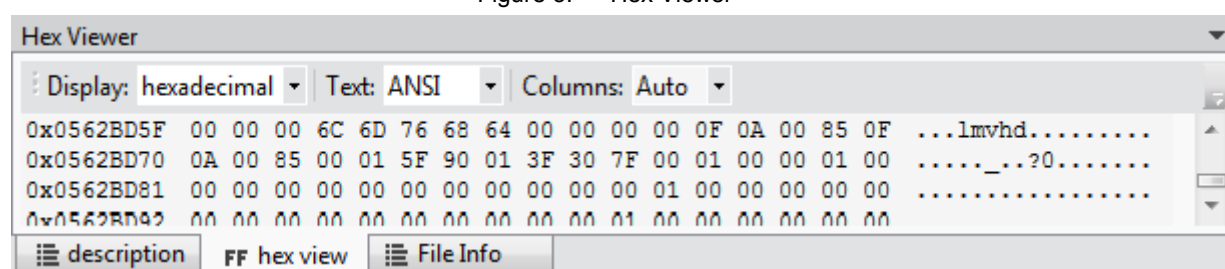
Figure 4. Description Panel



2.2.5 Hex Viewer

The HEX viewer allows direct viewing of the opened file data.

Figure 5. Hex Viewer



The **FF hex view** panel contains the following information blocks:

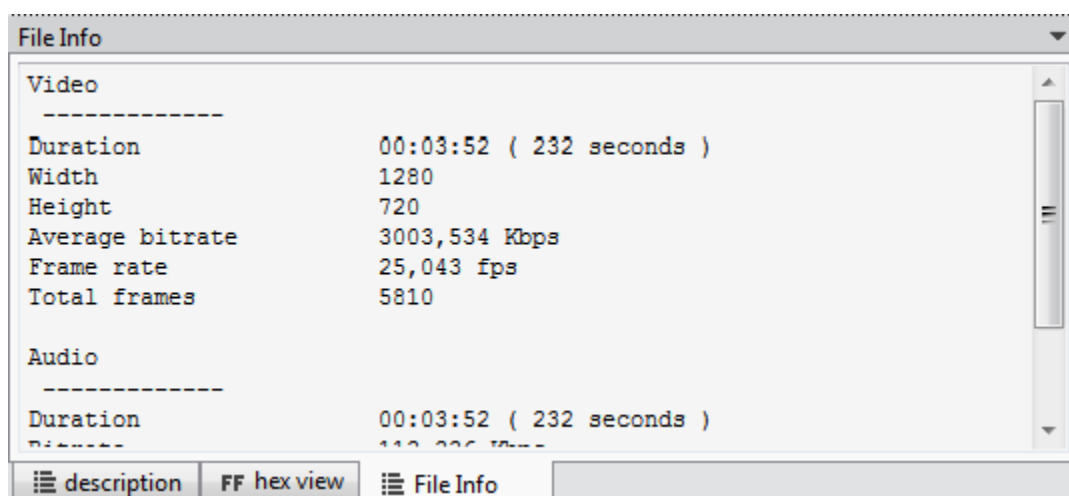
1. Displays offset (from the file beginning) of the line displayed in the next block.
2. Displays part of the file data in the hexadecimal mode. The unsigned decimal mode is available too (is set in the **Display** box).
3. Displays part of the file data in the text mode (ASCII).

The following table describes the **HEX** viewers tuning controls.

Table 4. Hex Viewer Controls

Control	Description
Display	Specifies view of the second information block: <ul style="list-style-type: none"> <i>hexadecimal</i> – sets the hexadecimal mode <i>unsigned</i> – sets the unsigned decimal mode <i>no data</i> – disables the block displaying
Text	Specifies view of the third information block: <ul style="list-style-type: none"> <i>ANSI</i> – sets the ASCII text format <i>no data</i> – disables the block displaying
Columns	Specifies data amount (number of bytes) displayed in each line. If the <i>Auto</i> value is set, the lengths of lines are fitted to the HEX viewer panel width.

2.2.6 File Info



The **File Info** panel displays the media file main parameters – duration, frame rate, bitrate, etc.