Notices

Elecard Video Format Analyzer v.1.2 User Guide

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For information, contact Elecard.

Tel: +7-3822-701-772; Fax: +1-801-991-5443

More information can be found at: http://www.elecard.com

For Technical Support, please contact the Elecard Technical Support Team:

tsup@elecard.com

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## CONTENTS

1. INTRODUCTION ......................................................................................................................................................... 4
   1.1 PREFACE ........................................................................................................................................................................ 4
   1.2 DESCRIBING ELECARD VIDEO FORMAT ANALYZER ........................................................................................................ 4
      1.2.1 Supported Media Types ........................................................................................................................................ 4
      1.2.2 Features ...................................................................................................................................................................... 4
   1.3 SYSTEM REQUIREMENTS ............................................................................................................................................. 4
   1.4 LICENSING AND TECHNICAL SUPPORT ...................................................................................................................... 5

2. USING ELECARD VIDEO FORMAT ANALYZER ........................................................................................................... 6
   2.1 INTRODUCTION ............................................................................................................................................................... 6
   2.2 DESCRIBING ELECARD VIDEO FORMAT ANALYZER GUI .......................................................................................... 6
      2.2.1 Menu .............................................................................................................................................................................. 6
      2.2.2 Toolbar .......................................................................................................................................................................... 7
      2.2.3 Settings ....................................................................................................................................................................... 7
      2.2.4 Description Panel ......................................................................................................................................................... 8
      2.2.5 Hex Viewer .............................................................................................................................................................. 8
      2.2.6 File Info ....................................................................................................................................................................... 9
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.

![Elecard Video Format Analyzer GUI – Main Window](image)

2.2.1 Menu

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

The following table describes the Video Format Analyzer Toolbar.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open file</td>
<td>Opens media file for parsing.</td>
</tr>
<tr>
<td>Recent files</td>
<td>Displays the list of recently opened files.</td>
</tr>
<tr>
<td>Close file</td>
<td>Closes the current file.</td>
</tr>
<tr>
<td>Settings</td>
<td>Opens the Settings dialog box.</td>
</tr>
</tbody>
</table>

2.2.3 Settings

The Settings dialog box allows the program adjustment.

The following table describes the Video Format Analyzer Settings dialog box.
Table 3. Settings Dialog Box Controls

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

2.2.4 Description Panel

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

![Figure 4. Description Panel](image)

2.2.5 Hex Viewer

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

![Figure 5. Hex Viewer](image)

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

<table>
<thead>
<tr>
<th>Control</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Display** | Specifies view of the second information block:  
• *hexadecimal* – sets the hexadecimal mode  
• *unsigned* – sets the unsigned decimal mode  
• *no data* – disables the block displaying  |
| **Text** | Specifies view of the third information block:  
• *ANSI* – sets the ASCII text format  
• *no data* – disables the block displaying  |
| **Columns** | Specifies data amount (number of bytes) displayed in each line.  
If the *Auto* 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.