AMIRA & ALEXA SXT / SXT W / LF / Mini

ARRI META Extract 4.2.0.0 (CMD)

USER MANUAL

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1 Introduction

ARRI META Extract (AME) 4.0 is a utility to retrieve the static and dynamic camera metadata from ALEXA LF SUP 4.0, ALEXA SXT 2.0, ALEXA 65 SUP 2.0, ALEXA Mini Sup 5.0 and AMIRA SUP 5.0

2 Supported Input Formats

- ALEXA - QuickTime/ProRes
- ALEXA - MXF/DNxHD
- ALEXA – ARRIRAW
- ALEXA Mini – MXF/ARRIRAW
- DPX files rendered with the ARRIRAW Converter 3.x and higher
- AMIRA – QuickTime/ProRes
- OpenExr files rendered with the ARRIRAW Converter 3.4.5 and higher

3 Supported Output Formats

- csv and XMP .xml files command –o
- xml or .aml Look file with default Iridas 3DLUT command -l
- Add --lutformat to create different 3D LUT manufacturer format
- wave audio files from MXF/ARRIRAW command –a
- crc checksum verification command -c
- range selection command –r
- print metadata to console command -q
- XMP .xml output file -q and -o

4 Getting Started

The command line version of AME 3.5 offers the same basic functionality as the GUI version, adds a few extra options. It will also read metadata from a single frame, one take/file sequence or several takes/file sequences and recursively processes the input path it is given.
To display the set of available options, run ./ARRIMETAExtract -h.

Options::

-a [--audio]	Extract audio (ARRIRAW/MXF only)

-c [--crc]	Perform CRC checking (ARRIRAW & ARRIRAW/ MXF)
-d [--debug]	More console output
-h [--help]	Help
-i [--input] arg	Sequence input path, i.e. - a directory containing ARRIRAW, DPX, or OpenEXR (*.ari|*.dpx|*.exr) - a directory containing QuickTime or Mxf (*.mov| *.mxf) - a single QuickTime or Mxf file (.mov|.mxf)
-k [--keys]	Display Quicktime key
-l [--look]	Extracting Look as .xml or .aml look file with Iridas 3DLUT (.cube format, 33 Meshpoints, Colorspace REC-709 and without CDL)
-l --lutformat arg	Add --lutformat to create different 3D LUT File Format: NAME (in quotes) MESHPOINTS COLORSPACE WITHCDL e.g. --lutformat "AutoDesk Lustre" 33 REC-709 false
-m [--mdvers] arg	Force dynamic metadata version
-o [--output] arg	Directory for csv output (default: current)
-p [--pick] arg	Pick metadata. Available options: [all|basic]
-s [--separator] arg	Set separator char, e.g. -s ";", or -s tab for "\\t". Default is tab
-r [--range] arg	Select index range, e.g. -r 5-17, or -r first|last
-v [--version]	Print version info
-x [--xml] arg	Apply metadata settings (AME GUI settings file)
--monochrome	Sets or overrides colorspace to LogC monochrome.
--verbose	Enables verbose output
--test.forcelocalimagedata	Internal option, significantly lowers performance
-r [--range] arg	Select index range, e.g. -r 5-17, or -r first|last. Only relevant for MXF/ARRIRAW files

--- -q[--query] special keyword ---
'-q list', to display known metadata item names (instead of selecting)
--- NAME and MESHPOINTS options ---

Autodesk 16 17 32 33
Autodesk Lustre 17 33 65
Cinespace 33
Filmlight 16 32 64

Houdini 33
Iridas 16 17 32 33 64 65

--- COLORSPACE options ---
P3-D60 P3-D65 P3-DCI REC-2020 REC-2100-HLG REC-2100-PQ REC-709
--- WITHCDL options ---
true false

5 Examples for Mac OSX and Windows

Mac OS X terminal:
./ARRIMetaExtract_CMD -i /Volumes/Footage/A012C001 -l -o /Volumes/Footage/A012C001

Windows command line:
ARRIMetaExtract_CMD.exe -i D:\Footage\A012C001 -l -o D:\Footage\metadata

6 Examples for export ALF-2 Look as 3D LUT

The embedded ALF-2 look can be extracted as 3D LUT in various LUT formats and point sizes of all ARRIRAW, MXF/ARRIRAW and ProRes recording formats.
The 3DLUT extract function is always activated when the command -l is used, a 3D LUT is always exported in Iridas .cube format with 33 points without CDL parameters. To create the 3D LUT for other manufacturers formats you need to add the argument --lutformat to the command - l for Look file export. The 3D LUT export can be additionally defined by 4 LUT parameters.

7 Example for extract into Console

The embedded metadata can be piped to the console and exported as XMP file with command -q. Command -q list is listing all known metadata item names.
In combination with -o, for each clip an XMP.xml file is written to the AME output folder instead of a .csv file.

8 XMP Example

The command -o extracts an XMP file beside the .csv file.

9 Known Issues

- Extract of Master TC value for project rates > 30fps (only AMIRA) is not consistent with ALE file.
- Extracting metadata values to the console with the -q command is not always consistent, sometimes displaying more metadata than requested.

10 Help

If you have any questions about the application, please contact us via digitalworkflow@arri.de.