

AMIRA & ALEXA SXT / SXT W / LF / Mini ARRIRAW Converter 4.0.0.0 Beta (CMD)

RELEASE NOTES

Date: 26 February 2019

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1 Introduction

The ARRIRAW Converter CMD (also referred to as “ARC CMD”) is a command line tool using the ARRIRAW SDK to convert ARRIRAW images into different file formats. Using a XML based configuration file (the so called short settings), parameters affecting the rendering output can be set.

The settings are explained in more detail in the ARC CMD user manual.

2 System Requirements

Mac Systems:

- OS X 10.11
- OS X 10.12
- OS X 10.13
- OS X 10.14

PC Systems:

- 64 bit Windows 7
- 64 bit Windows 8
- 64 bit Windows 10

Linux Systems:

- 64 bit Ubuntu 14.04
- 64 bit Ubuntu 16.04.6
- 64 bit Ubuntu 18.04.2
- 64 bit CentOS 6
- 64 bit CentOS 7
- 64 bit SLES 11 SP4

For GPU or CUDA processing:

- AMD/ATI or NVIDIA graphics adapter with at least 2048 MB of RAM. If processing ALEXA65 footage, 3072 MB of VRAM are recommended
- Latest AMD/ATI or NVIDIA GPU driver installed

ARRI recommends updating ARC version 3.5.0 or lower to version 3.5.3 or higher when rendering footage of the new ALEXA LF.

3 Features Overview

Features added in the new release version:

- New geometry interface
- New scaling filters and algorithms. Due to this, result images with same settings may differ from results of previous versions
- New detail parameter to have more control over frequency handling in the scaler. See Texture Control white paper for details:
<https://www.arri.com/service/search/en/49664?query=texture%20white>
- Fixes in denoising for ALEXA MINI, ALEXA65, and ALEXA LF.
- Parameterization and behaviour of the half size proxy (proxy factor 2) has changed: the output image size is now exactly the size as set in the Scaling Geometry. For increased performance it is further recommended to reduce the output resolution as far as possible. Due to the underlying processing algorithms, we recommend using proxy factor 1 for images larger than half the input dimensions. To get an image identical to previous processing, please set half the resolution (e.g. width 960px height 540px instead of HD_FROM_xxxxpx).

4 Bugfixes and Extensions

Fix bug in CUDA processing for ALEXA footage. Due to this, images containing highly saturated colours, rendered in CUDA with same settings may differ visually from results of previous versions.

5 Questions and Contact

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

6 External Libraries

This software uses the following external libraries:

- **Libtiff**

www.libtiff.org

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- **libjpeg**

www.jpeg.org

This software is based in part on the work of the Independent JPEG Group

- **libzlib**

www.zlib.net

License:

Interface of the 'zlib' general purpose compression library version 1.2.7, May 2nd, 2012

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- **libbzip2**

www.bzip.org

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Julian Seward: jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

- **Boost**

www.boost.org

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- **Tinyxml**

www.grinninglizard.com/

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www.sourceforge.net/projects/tinyxml

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- **Glew**

glew.sourceforge.net

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- **Mesa 3-D graphics library Version: 7.0**

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