

A7Info

User Manual

Version 4.2.0

June 2026

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1. Introduction

A7Info is a program for displaying the metadata contained in the RAW and JPG files of Sony E-Mount cameras. The goal is to give camera users quick and comprehensive access to the EXIF and MakerNotes information in image files.

Features

- Display of EXIF and MakerNotes data (exposure, AF settings, lens data, shutter count and more)
- Display of autofocus positions in the image (FocusLocation, PhaseAF, TrackingAF, EyeAF)
- Camera settings as overlay similar to the camera display (OnScreen Infos)
- Display of the embedded preview image (RAW) or the complete JPG
- Display of the full raw image via the LibRaw library
- RGB histogram of the preview image
- Statistical analyses: aperture, ISO, exposure time, focal length, metering method
- Print of capture information as a data sheet
- Open files in external programs
- Crop Resolution Calculator: calculate resolution loss when cropping
- J/K keyboard navigation in the file browser
- Real-time search field for filtering EXIF/MakerNotes data
- Per-image star rating 0–5 (stored locally, Lightroom export available)
- Batch EXIF export as CSV or JSON
- FullSizeRaw: 4-channel RAW histogram (R/G1/G2/B) with EV scale directly from Bayer sensor data
- FullSizeRaw: linear preview image without gamma correction (no tone mapping)
- FullSizeRaw: asynchronous loading — UI remains responsive during processing
- FullSizeRaw: RAW technology panel (ARW version, compression, bit depth, sensor dimensions, black/white level)

System Requirements

Platform	Requirement
Windows	Windows 10 or later, 64-bit
macOS	macOS 15 (Sequoia) or later; Universal Binary for Intel and Apple Silicon

Supported Cameras

As of version 4.2.0 (June 2026). Due to the different characteristics of the cameras, differences in the displayed data may occur.

Series	Models
A7 Full-frame	A7 II, A7 III, A7 IV, A7 V, A7C, A7C II, A7CR
A7R	A7R II, A7R III, A7R IV, A7R V, A7R VI
A7S	A7S II, A7S III
A9	A9, A9 II, A9 III
A1	A1, A1 Mark II
APS-C	A6100, A6400, A6600, A6700

Note A1 Mark II and possibly newer cameras: When using the electronic shutter, the number of mechanical shutter actuations (ShutterCount) is no longer written to the image files.

2. Download and Installation

The current version can be downloaded from the downloads page at soens.de/downloads.html.

Platform	File	Note
Windows	A7InfoSetup.exe	Setup installer: double-click and follow the setup wizard
macOS	A7InfoSetup.dmg	Open the DMG (double-click), drag A7Info.app into the <i>Applications</i> folder

On Windows, the Microsoft Visual C++ runtime library is required and will be installed automatically if needed.

Uninstallation

macOS: Drag A7Info.app from the *Applications* folder to the Trash.

Windows: Open *Settings* → *Apps* (Windows 11) or *Control Panel* → *Programs and Features* (Windows 10), select A7Info, and uninstall.

The program stores its settings at the following locations:

```
Windows: HKEY_CURRENT_USER\SOFTWARE\WWS\A7Info macOS: ~/Library/Preferences/
de.soens.A7Info.plist
```

Updates

A7Info can optionally check for a new version on startup (internet required). Updates must be downloaded manually from the Downloads page. On **macOS**, open the new DMG and replace A7Info.app. On **Windows**, run the setup installer again.

3. Using the Program

Starting the Program

The program is started by double-clicking the program icon. It can also be launched from the command line with a start directory:

```
Windows: A7Info.exe C:\Photos\Vacation macOS: ./A7Info.app/Contents/MacOS/A7Info ~/Pictures/Vacation
```

The specified directory overrides the last used directory from the previous session.

Main Window

The main window consists of the central preview image and several dockable windows that can be freely positioned. The arrangement is saved.

#	Area	Description
1	Menu & Toolbar	All program functions are accessible via menu or toolbar — both are equivalent.
2	Preview Image	Shows the embedded JPG preview (max. 1616×1080 px) or the original photo. Double-click opens the image at full resolution.
3	SourceDirectory	Drive and directory tree for navigation.
4	Statistics Window	Quick overview of aperture values in the current directory. Click cycles through ISO, focal length, exposure program and metering method.
5	Thumbnails	All images in the selected directory. Navigate with mouse click, arrow keys or J/K.
6	Status Bar	Shows the file path, file name and capture date of the currently selected image.
7	MainData Window	Dashboard showing exposure mode (large letter), shutter/aperture/ISO/EV, focal length, camera strip (model, serial, firmware, shutter count), lens name and star rating (0–5).
8	Exif & MakerNotes	All metadata grouped by topic: Camera, File, Picture, Exposure, Lens, Autofocus, Misc, GPS. Search field filters entries in real time; Escape resets.

The groups in the Exif & MakerNotes window can be expanded and collapsed individually. The state is preserved when changing images and across program restarts.

Toolbar

#	Function	Menu
1	Save Preview	[File] SavePreview
2	Print	[File] Print

#	Function	Menu
3	Delete	[File] Delete
4	Settings	[File] Settings
5	Focus Location	[View] Focus Location
6	FaceDetect Location	[View] FaceDetect Location
7	PhaseAF Locations	[View] PhaseAF Locations
8	TrackingAF Location	[View] TrackingAF Location
9	OnScreen Infos	[View] OnScreen Infos
10	FullSizeRaw	[View] FullSizeRaw
11	Statistics	[View] Statistics
12	About A7Info	[Help] About
13	Quit	[File] Quit

Some entries — in particular those relating to focus points — cannot be selected if the corresponding data is not present in the image file.

File Menu

SAVEPREVIEW

Saves the currently displayed preview image as a JPG file at **1616 × 1080 pixels**. The JPG quality (10–100 %) can be preset under *Settings* → *General* → *Preview Quality*.

PRINT

Prints a data sheet for the current image: thumbnail, camera and exposure data from the MainData window, and EXIF and MakerNotes. The scope is determined by the groups expanded in the EXIF window (or all data via Settings).

DELETE

Moves one or more selected files to the trash. A confirmation prompt can be activated in Settings.

EXPORT EXIF

Exports the metadata of all images in the current directory as **CSV** (for spreadsheet applications) or **JSON** (for custom scripts). All EXIF and MakerNotes fields read by A7Info are included.

EXPORT RATINGS TO XMP

Writes the star ratings stored in A7Info as XMP sidecar files to the current directory. These can then be imported into Lightroom. Existing XMP files are **not** overwritten. This is intended as a one-time transfer step for the Lightroom import.

SETTINGS / PREFERENCES

On macOS, this item is found in the app menu as *Preferences*. Settings are saved on exit.

General

Setting	Description
Updates – Check on start	Checks for new versions on startup (internet required)
Show .arw only	Restrict thumbnail display to ARW files
Confirm Delete	Additional confirmation when deleting files
Print – all data	Print all EXIF/MakerNotes data (not just expanded groups)
Preview Quality	JPG quality for SavePreview, 10–100 %

Display

Setting	Description
AF-Symbols	Colour and transparency of focus point overlays
Raw InitialScale	Initial scale of the FullSizeRaw display in %
OnScreenInfos Transparency	Transparency of the camera display overlay

Programs

The currently displayed image can be opened with an external program. Use *Add* to add a program and *Remove* to remove it. The target program must accept a file name as a launch parameter.

View Menu

FOCUS LOCATION

Displays the focus point set by the camera as a pulsing symbol (two concentric circles with four tick marks) in the preview image. Colour and transparency adjustable via Settings.

FACEDTECT LOCATION

Displays detected face positions as rectangles in the preview image. Colour and transparency adjustable.

PHASEAF LOCATIONS

Displays the AF fields used if phase AF was active. Colour and transparency adjustable.

TRACKINGAF LOCATION

With tracking active: shows the tracking symbol or EyeAF symbol around the focused point.

ONSCREEN INFOS

Displays relevant capture information as an overlay over the preview image — similar to the camera's display or viewfinder. Transparency adjustable.

FULLSIZERAW

Opens the full RAW image in a separate window. Decoding is done via LibRaw in a background thread — the interface remains fully responsive during loading. An animated loading indicator shows progress.

Image display: The image is rendered with linear gamma (no tone mapping, no curves), with camera white balance applied. This makes the raw tonal relationships from the sensor directly readable.

Zoom and navigation: Fit-to-View on opening. Mouse wheel: zoom 5–400 % in 10 % steps, centred on mouse cursor. Double-click: return to Fit-to-View. Keyboard: +/- zoom, 0 = Fit-to-View, 1 = 100 %.

4-channel RAW histogram: Below the image, a resizable area (QSplitter) shows four separate histogram panels directly from the Bayer raw data — R, G1, G2 and B. The horizontal axis uses an EV scale from -12 to +4 stops (EV0 = $\frac{1}{8}$ of the white level); an amber line marks EV0. Sony black-level correction (~512 ADU) is applied automatically. Deviations between G1 and G2 can indicate sensor banding.

RAW technology panel: Compact information bar at the bottom: ARW format version, compression (uncompressed 14-bit/12-bit, lossless, lossless v.2, lossy), bit depth, RAW size (L/M/S), sensor and active dimensions in pixels, black level and white level in ADU.

Window size and splitter position are saved on close.

STATISTICS

Opens the Statistics dialog for extended analyses across an entire directory (including subdirectories). Bar, pie and donut charts, timeline. Print and clipboard export available.

Windows Menu

Each window can be shown or hidden individually. The visibility state is saved on exit: Source Directory, Statistics, MainData, Exif and MakerNotes, Directory Contents (Thumbnails).

Keyboard Shortcuts

Key	Function
J	Next image in thumbnail browser
K	Previous image in thumbnail browser
0 – 5	Set star rating (0 = no rating)
Escape	Reset EXIF search field

Help Menu

CROP RESOLUTION CALCULATOR

Calculates the resolution loss when cropping an image to a different field of view. Example: from a 61 MP image (A7R IV, 50 mm), a crop equivalent to an 85 mm lens drops the effective resolution to approx. 21 MP.

ABOUT A7INFO

Displays the program version and contact information.

4. Appendix

Recognised Lenses

A7Info automatically recognises the following lenses and displays their full name.

Lens	Manufacturer
Sony E 16mm F2.8	Sony
Sony E 18-55mm F3.5-5.6 OSS	Sony
Sony E 18-135mm F3.5-5.6 OSS	Sony
Sony E 18-200mm F3.5-6.3 OSS	Sony
Sony E 18-200mm F3.5-6.3 OSS LE	Sony
Sony E 18-50mm F4-5.6	Sony
Sony E 20mm F2.8	Sony
Sony E 24mm F1.8 ZA	Sony
Sony E 30mm F3.5 Macro	Sony
Sony E 35mm F1.8 OSS	Sony
Sony E 50mm F1.8 OSS	Sony
Sony E 55-210mm F4.5-6.3 OSS	Sony
Sony E 70-350mm F4.5-6.3 G OSS	Sony
Sony E 10-18mm F4 OSS	Sony
Sony E 16-55mm F2.8 G	Sony
Sony E PZ 16-50mm F3.5-5.6 OSS	Sony
Sony E PZ 18-105mm F4 G OSS	Sony
Sony E PZ 18-110mm F4 G OSS	Sony
Sony E PZ 18-200mm F3.5-6.3 OSS	Sony
Sony FE 12-24mm F2.8 GM	Sony
Sony FE 12-24mm F4 G	Sony
Sony FE 16-35mm F2.8 GM	Sony
Sony FE 16-35mm F4 ZA OSS	Sony
Sony FE 20mm F1.8 G	Sony
Sony FE 24mm F1.4 GM	Sony

Lens	Manufacturer
Sony FE 24-70mm F2.8 GM	Sony
Sony FE 24-70mm F4 ZA OSS	Sony
Sony FE 24-105mm F4 G OSS	Sony
Sony FE 24-240mm F3.5-6.3 OSS	Sony
Sony FE 28mm F2	Sony
Sony FE 28-60mm F4-5.6	Sony
Sony FE 28-70mm F3.5-5.6 OSS	Sony
Sony FE 35mm F1.4 ZA	Sony
Sony FE 35mm F1.4 GM	Sony
Sony FE 35mm F1.8	Sony
Sony FE 35mm F2.8 ZA	Sony
Sony FE 50mm F1.4 ZA	Sony
Sony FE 50mm F1.8	Sony
Sony FE 50mm F2.8 Macro	Sony
Sony FE 55mm F1.8 ZA	Sony
Sony FE 70-200mm F2.8 GM OSS	Sony
Sony FE 70-200mm F2.8 GM OSS + 1.4X	Sony
Sony FE 70-200mm F2.8 GM OSS + 2X	Sony
Sony FE 70-200mm F4 G OSS	Sony
Sony FE 70-300mm F4.5-5.6 G OSS	Sony
Sony FE 85mm F1.4 GM	Sony
Sony FE 85mm F1.8	Sony
Sony FE 90mm F2.8 Macro G OSS	Sony
Sony FE 100mm F2.8 STF GM OSS	Sony
Sony FE 100-400mm F4.5-5.6 GM OSS	Sony
Sony FE 100-400mm F4.5-5.6 GM OSS + 1.4X	Sony
Sony FE 100-400mm F4.5-5.6 GM OSS + 2X	Sony
Sony FE 135mm F1.8 GM	Sony
Sony FE 200-600mm F5.6-6.3 G OSS	Sony
Sony FE 200-600mm F5.6-6.3 G OSS + 1.4X	Sony
Sony FE 200-600mm F5.6-6.3 G OSS + 2X	Sony

Lens	Manufacturer
Sony FE 400mm F2.8 GM OSS	Sony
Sony FE 400mm F2.8 GM OSS + 1.4X	Sony
Sony FE 400mm F2.8 GM OSS + 2X	Sony
Sony FE 600mm F4 GM OSS	Sony
Sony FE 600mm F4 GM OSS + 1.4X	Sony
Sony FE 600mm F4 GM OSS + 2X	Sony
Sony FE PZ 28-135mm F4 G OSS	Sony
Sony LA-EA1 / Sigma MC-11 Adapter	Sony / Sigma
Sony LA-EA2 – LA-EA5 Adapter	Sony
Zeiss Batis 18mm F2.8	Zeiss
Zeiss Batis 25mm F2	Zeiss
Zeiss Batis 40mm F2 CF	Zeiss
Zeiss Batis 85mm F1.8	Zeiss
Zeiss Batis 135mm F2.8	Zeiss
Zeiss Loxia 21mm F2.8	Zeiss
Zeiss Loxia 25mm F2.4	Zeiss
Zeiss Loxia 35mm F2	Zeiss
Zeiss Loxia 50mm F2	Zeiss
Zeiss Loxia 85mm F2.4	Zeiss
Zeiss Touit 12mm F2.8	Zeiss
Zeiss Touit 32mm F1.8	Zeiss
Zeiss Touit 50mm F2.8 Macro	Zeiss
Tamron 17-28mm F2.8 Di III RXD	Tamron
Tamron 17-70mm F2.8 Di III-A VC RXD	Tamron
Tamron 18-200mm F3.5-6.3 Di III VC	Tamron
Tamron 20mm F2.8 Di III OSD M1:2	Tamron
Tamron 24mm F2.8 Di III OSD M1:2	Tamron
Tamron 28-75mm F2.8 Di III RXD	Tamron
Tamron 28-200mm F2.8-5.6 Di III RXD	Tamron
Tamron 35mm F2.8 Di III OSD M1:2	Tamron
Tamron 70-180mm F2.8 Di III VXD	Tamron

Lens	Manufacturer
Tamron 70-300mm F4.5-6.3 Di III RXD	Tamron
Sigma 16mm F1.4 DC DN C	Sigma
Sigma 19mm F2.8 [EX] DN	Sigma
Sigma 30mm F1.4 DC DN C	Sigma
Sigma 35mm F1.2 DG DN A	Sigma
Sigma 35mm F1.4 DG HSM A	Sigma
Sigma 35mm F2 DG DN C	Sigma
Sigma 45mm F2.8 DG DN C	Sigma
Sigma 56mm F1.4 DC DN C	Sigma
Sigma 65mm F2 DG DN C	Sigma
Sigma 70mm F2.8 DG MACRO A	Sigma
Sigma 85mm F1.4 DG DN A	Sigma
Sigma 85mm F1.4 DG HSM A	Sigma
Sigma 100-400mm F5-6.3 DG DN OS C	Sigma
Sigma 105mm F1.4 DG HSM A	Sigma
Sigma 105mm F2.8 DG DN MACRO A	Sigma
Sigma 14-24mm F2.8 DG DN A	Sigma
Sigma 24mm F1.4 DG HSM A + MC-11	Sigma
Sigma 24-35mm F2 DG HSM A + MC-11	Sigma
Sigma 24-70mm F2.8 DG DN A	Sigma
Sigma 24-105mm F4 DG OS HSM A + MC-11	Sigma
Sigma 50mm F1.4 DG HSM A	Sigma
Sigma 150-600mm F5-6.3 DG OS HSM C + MC-11	Sigma
Sigma 150-600mm F5-6.3 DG OS HSM S + MC-11	Sigma
Samyang AF 14mm–85mm F1.4–F2.8 (various models)	Samyang
Tokina FiRIN 20mm F2, 100mm F2.8 FE; atx-m 85mm F1.8	Tokina
Voigtlander HELIAR, NOKTON, APO-LANTHAR (various models)	Voigtlander
Viltrox PFU RBMH 85mm F1.8	Viltrox
Metabones Canon EF Adapter (Smart, Speed Booster, various)	Metabones

Version History

4.2.0 June 2026

- + Support for Sony A7R VI (ILCE-7RM6)
- + FullSizeRaw: GPU-accelerated image viewer (Metal on macOS, Direct3D 12 on Windows) via Qt RHI
- + FullSizeRaw: mipmaps and trilinear filtering — smooth rendering at all zoom levels
- + FullSizeRaw: 10 % zoom steps centred on mouse cursor; keyboard: +/-, 0 = Fit-to-View, 1 = 100 %
- * FullSizeRaw: Retina/HiDPI-correct rendering

4.1.0 May 2026

- + FullSizeRaw: 4-channel RAW histogram (R/G1/G2/B) with EV scale (-12 to +4), black-level correction, amber EV0 line
- + FullSizeRaw: linear preview (no gamma, no tone mapping) with camera white balance
- + FullSizeRaw: asynchronous loading via QtConcurrent — UI remains responsive during processing
- + FullSizeRaw: resizable splitter between image and histogram
- + FullSizeRaw: Fit-to-View on open, mouse-wheel zoom 5–400 %, double-click reset
- + FullSizeRaw: RAW technology panel (ARW version, compression, bit depth, sensor dimensions, black/white level)
- + New Bayer pattern icon for the FullSizeRaw toolbar button
- * LibRaw 0.22.1 (security fixes: integer overflow in float DNG loader, buffer overrun in YCC decoder)
- * New installation workflow: macOS DMG ships A7Info.app directly (drag to Applications); Windows: Inno Setup installer

4.0.0 April 2026

- + New dark design with amber accent; SVG icons in toolbar and metadata tree
- + MainData window redesigned (dashboard layout)
- + J/K keyboard navigation in the file browser
- + Real-time search field in the Exif & MakerNotes window
- + Star rating 0–5 (keyboard & mouse; stored in `_a7info.json`)
- + Batch EXIF export as CSV and JSON
- + Export Ratings to XMP for Lightroom workflow
- + FocusLocation: new SVG symbol with soft pulsing
- * Bugfix: GPS state in tree view was not saved correctly

3.8.0 April 2026

- + Support for Sony A7 Mark V (ILCE-7M5)
- + Universal Binary for Apple Silicon and Intel (macOS)
- + Build system migrated from qMake to CMake

- * Bugfix: model ID parsing returned wrong values for serial number and shutter count

3.7.1 June 2025

- + Adjustments for Sony A1 Mark II
- + EXIF and MakerNotes display now also shows tag names
- * Bug fixes

3.7.0 May 2025

- + Support for Sony A1 Mark II

3.6.1 March 2024

- + Support for Sony A9 Mark III; bug fixes

3.6.0 November 2023

- + Support for A7CR and A7C II

3.5.2 September 2023

- + Support for Sony A6700

3.5.1 December 2022

- + Support for Sony A7R V

3.5.0 January 2022

- + Support for Sony A7 IV
- + Face detection data from MakerNotes