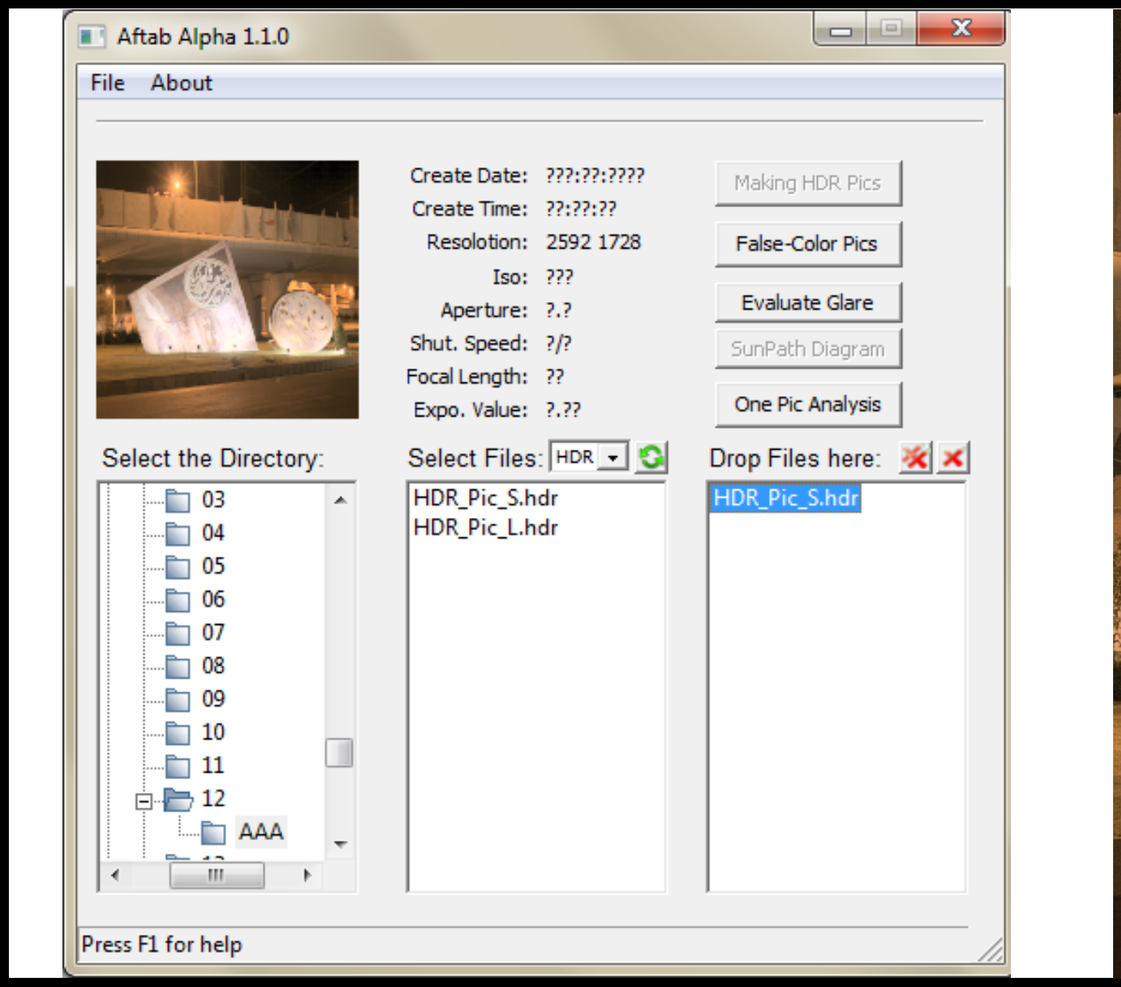
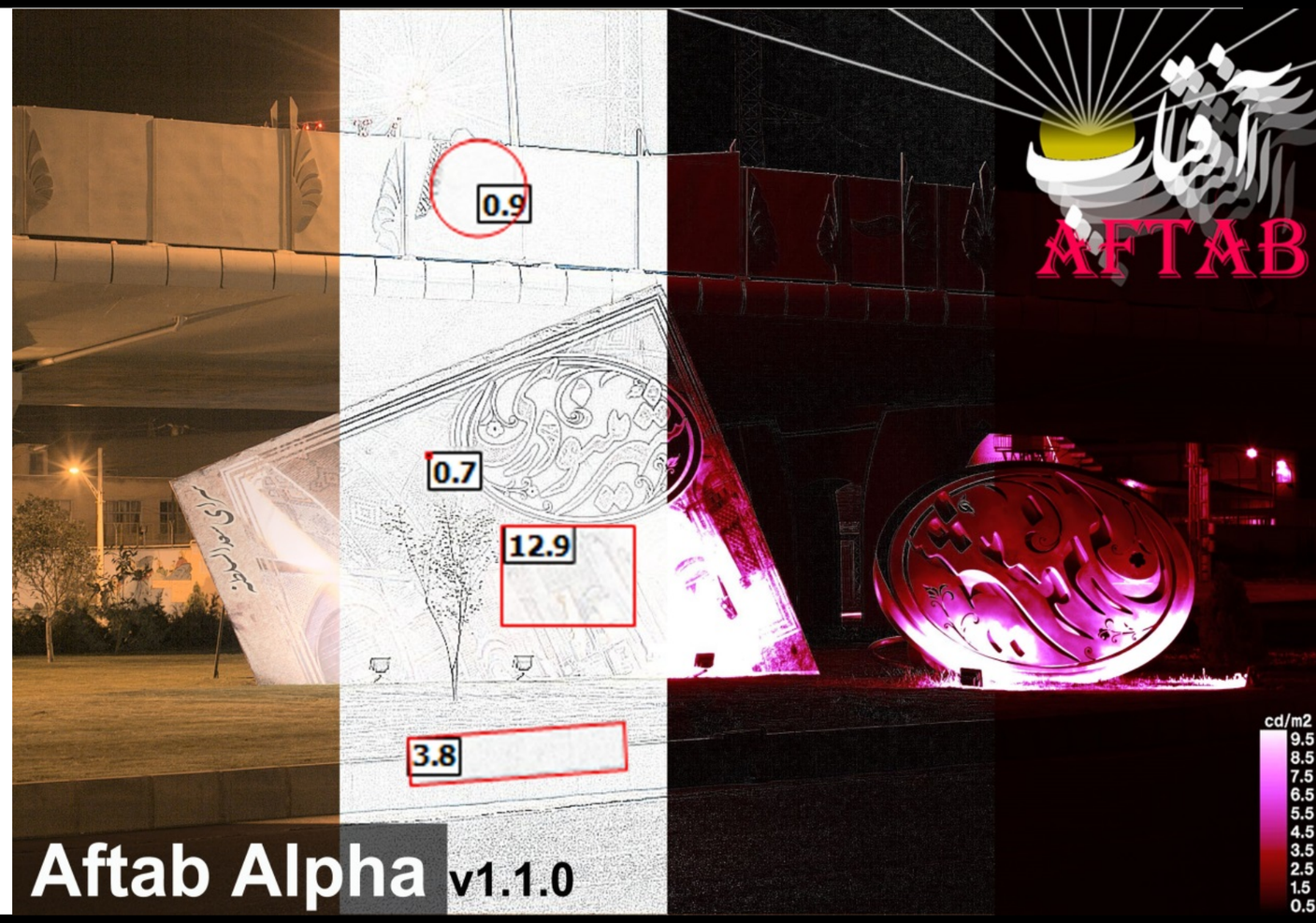
A new HDR software

Camera Calibration, Creating HDR, Evaluating HDR, Glare Evaluation,
Sunpath Diagram generator

Written in Python with some commands scripted in C++
With the help of some Radiance commands, evalglare, and dcraw





Majid Miri
Radiance Workshop

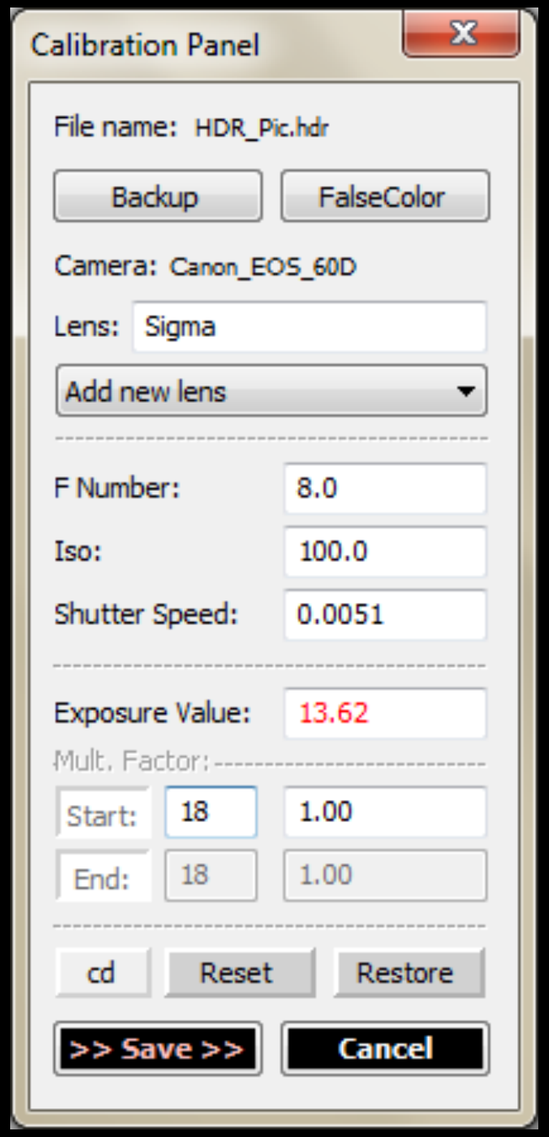
lusarkitektur

Aftab Alpha, new HDR software

Camera Calibration

For each specific camera and lens

- Based on an HDR image
- Based on one RAW image file
- Based on measuring lux level on A4 white paper (???)



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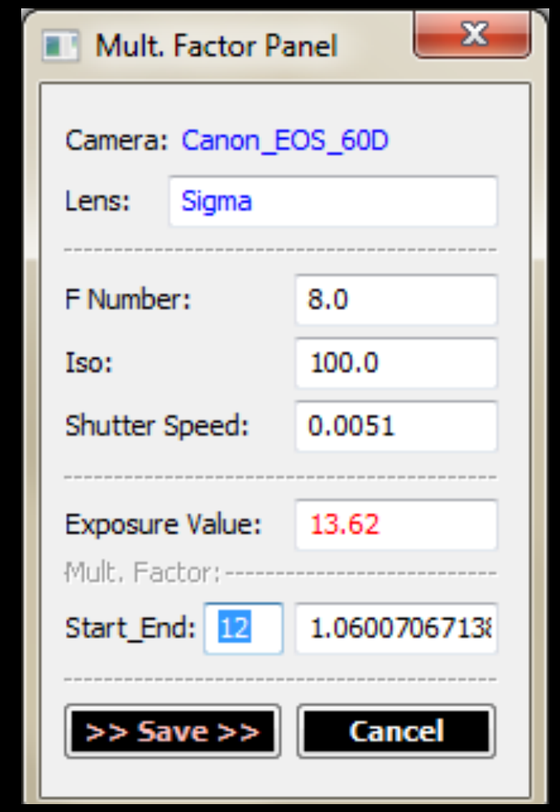

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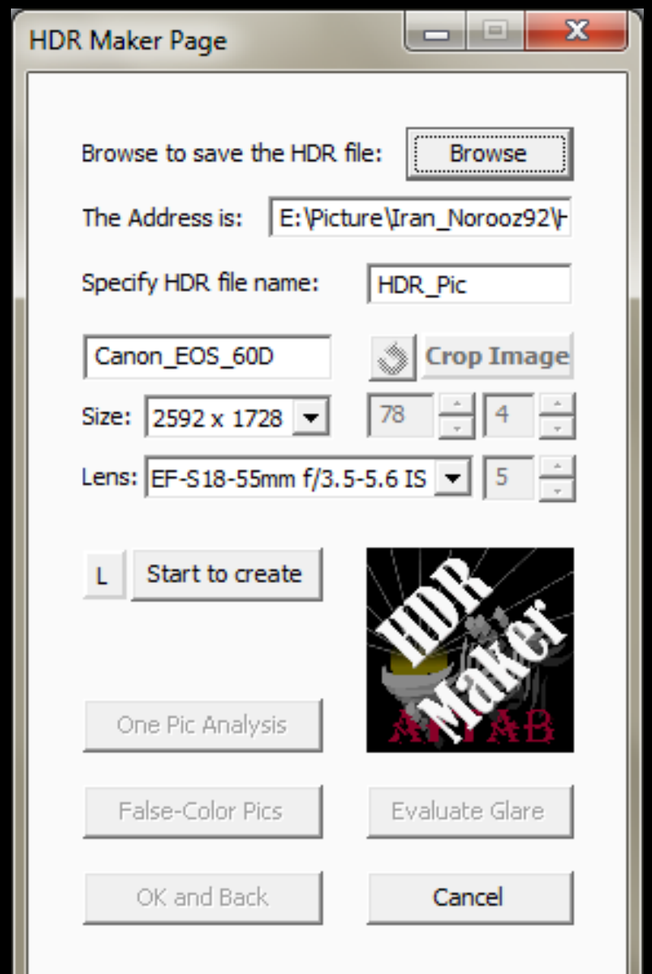
HDR Creation

Based on a sequence of RAW files (CR2, NEF, DNG, RAW) or JPEG files with different shutter speeds (no image alignment).

- Define output image size
- Select the Lens that is already calibrated
- In case of using an fish-eye lens, there is an option to crop the image.
- There are two different HDR assembly algorithms, (L and S)
  (L gives a more accurate brightness value)



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HDR Creation

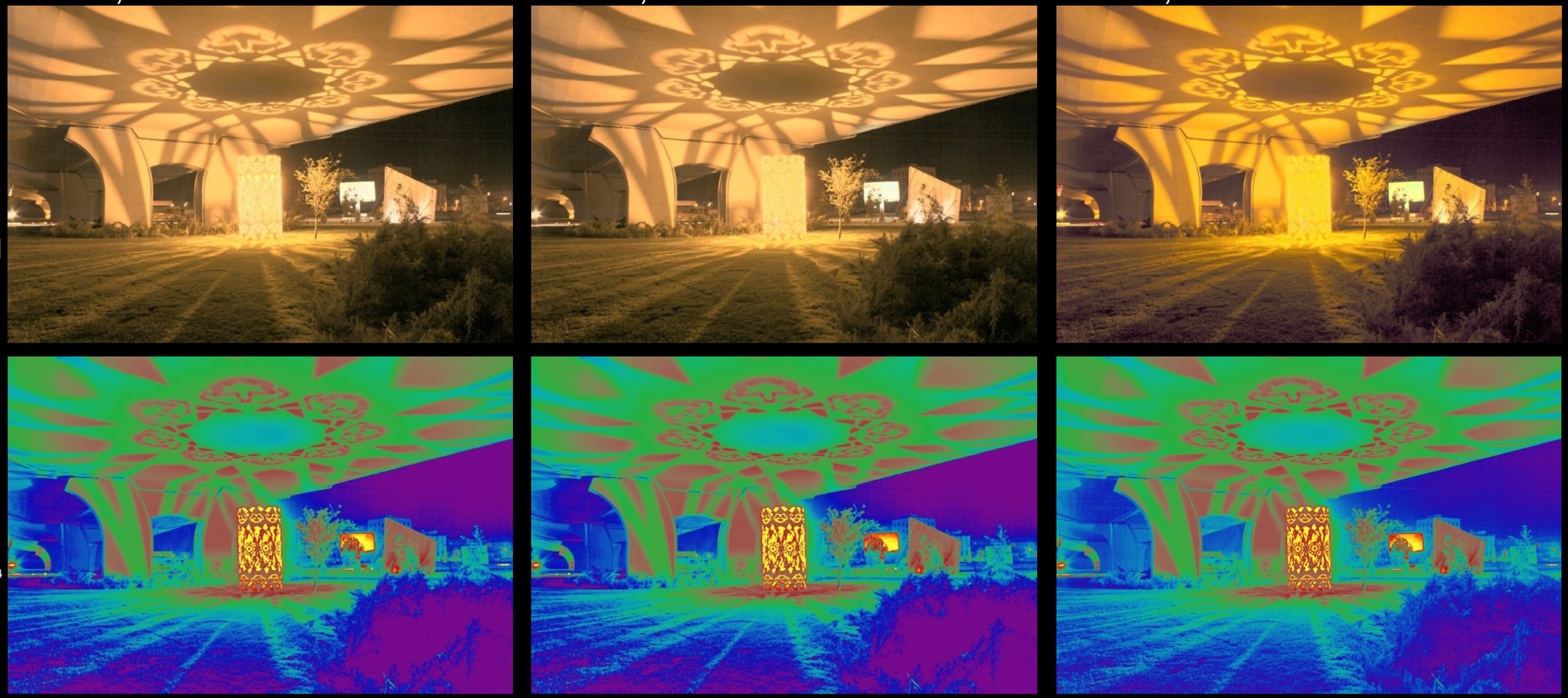
6 RAW files taken by Canon EOS 60D

Windows 7 64 bit, 2.66 GHz Intel Core i7, 2 GB RAM

Windows 7 64 bit, 2.66 GHz Intel Core i7, 2 GB RAM

Mac OS X, 2.66 GHz Intel Core i7, 8 GB RAM

ra_bmp -e auto



By Aftab, L option
Execution time: 31s

By Aftab, S option
Execution time: 132s

By RAW2HDR
Execution time: 10s

ışıkmimarlık

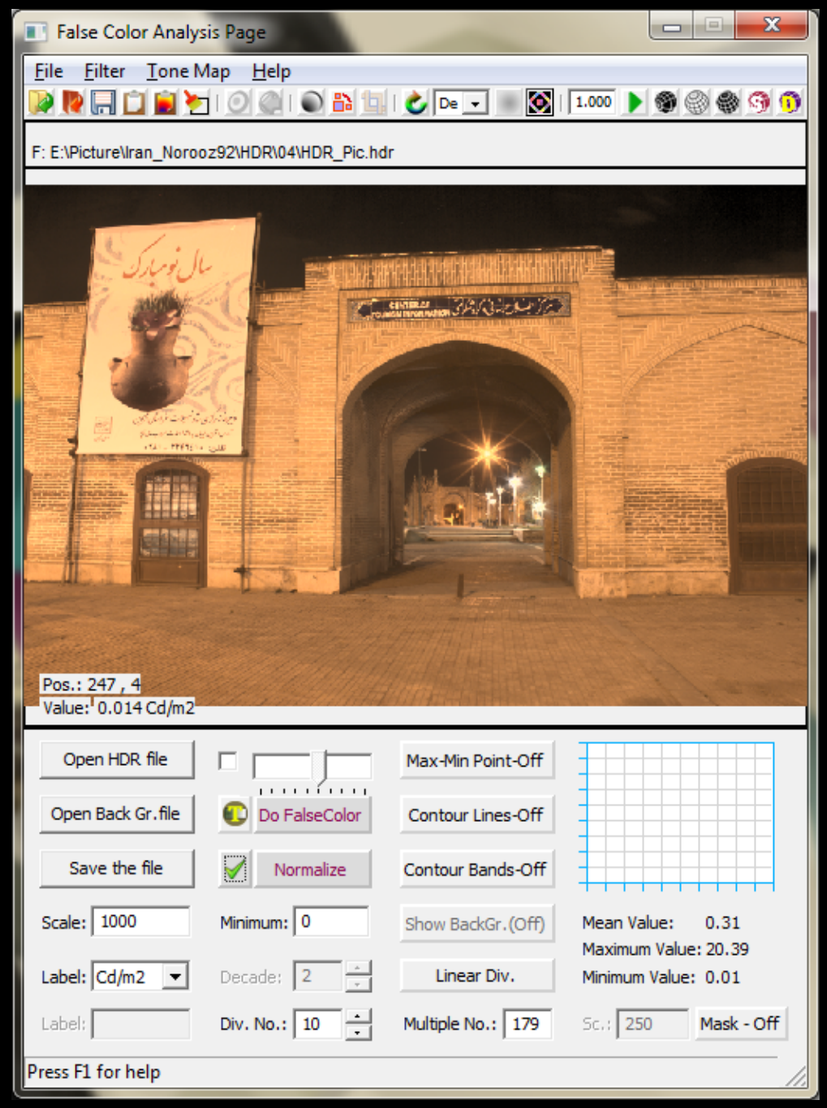
Aftab Alpha, new HDR software

HDR Evaluation and Falsecolor

Input file types: HDR, PIC, DAT*

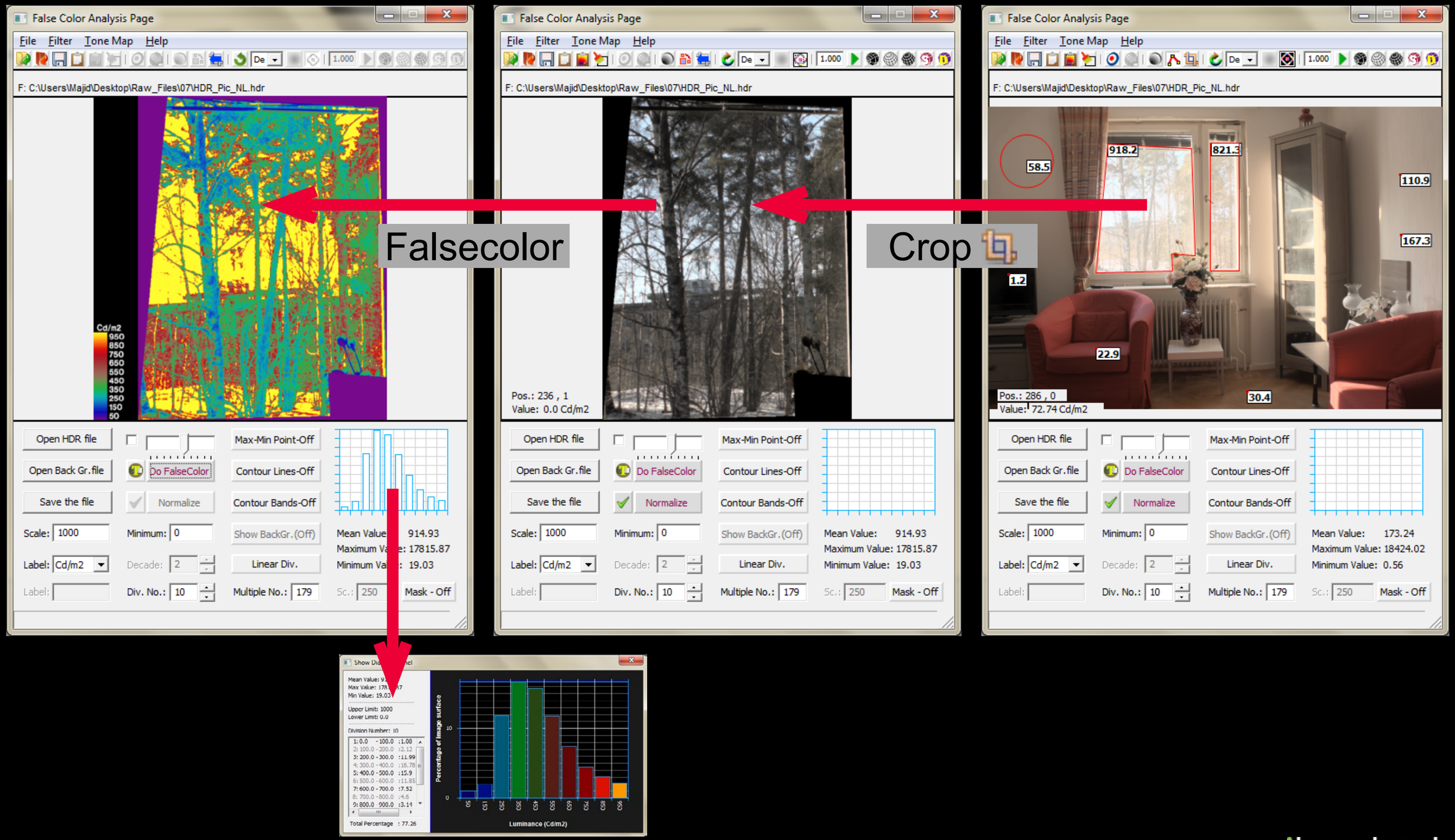
*DAT: Radiance points data files

- FalseColor images with 7 different palettes.
- Reading pixel RGB and brightness values.
- Reading brightness values of a selected circular, rectangular and polygonal area
- Cropping the image.
- Showing the image brightness histogram.
- Color-Balance the image available in lamp.tab and also customized X,Y and M values.
- Correlated color temperature conversion. (???)
- Simple tone-mapping



Aftab Alpha, new HDR software

HDR Evaluation and Falsecolor

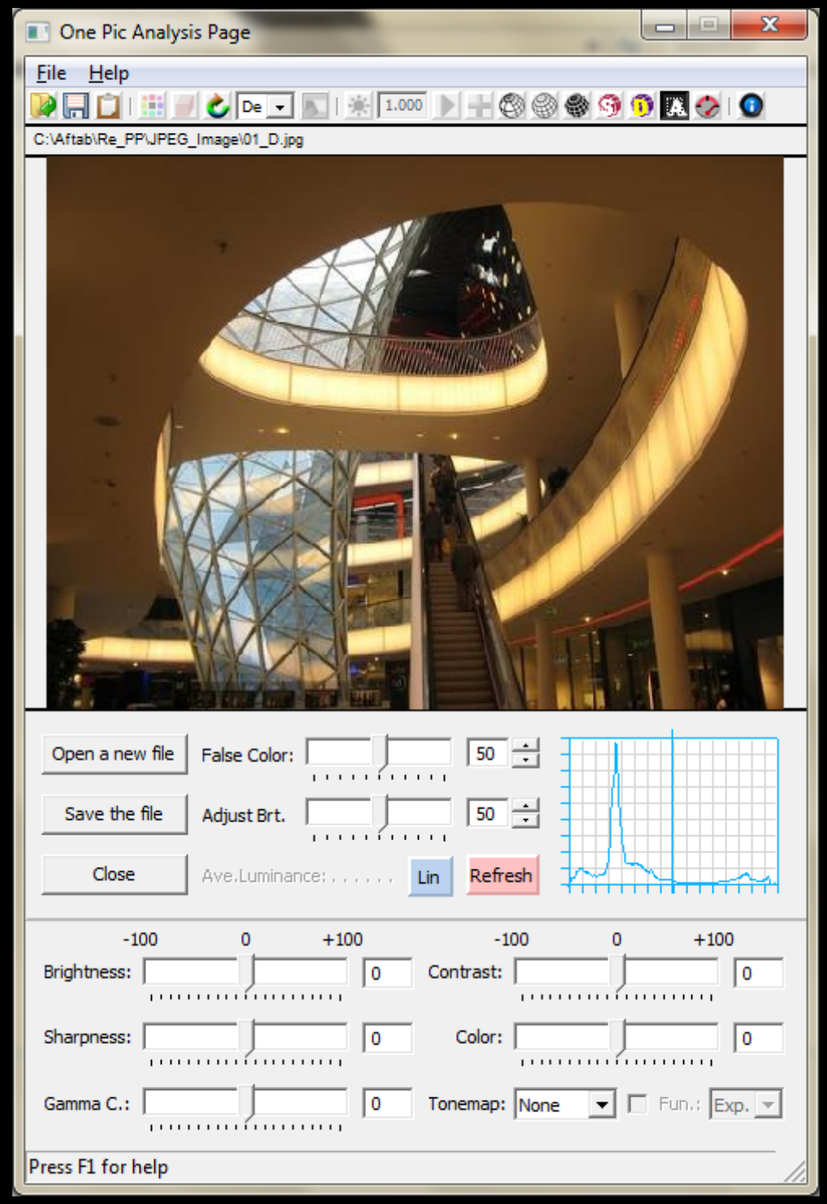


Aftab Alpha, new HDR software

One-Pic Analysis

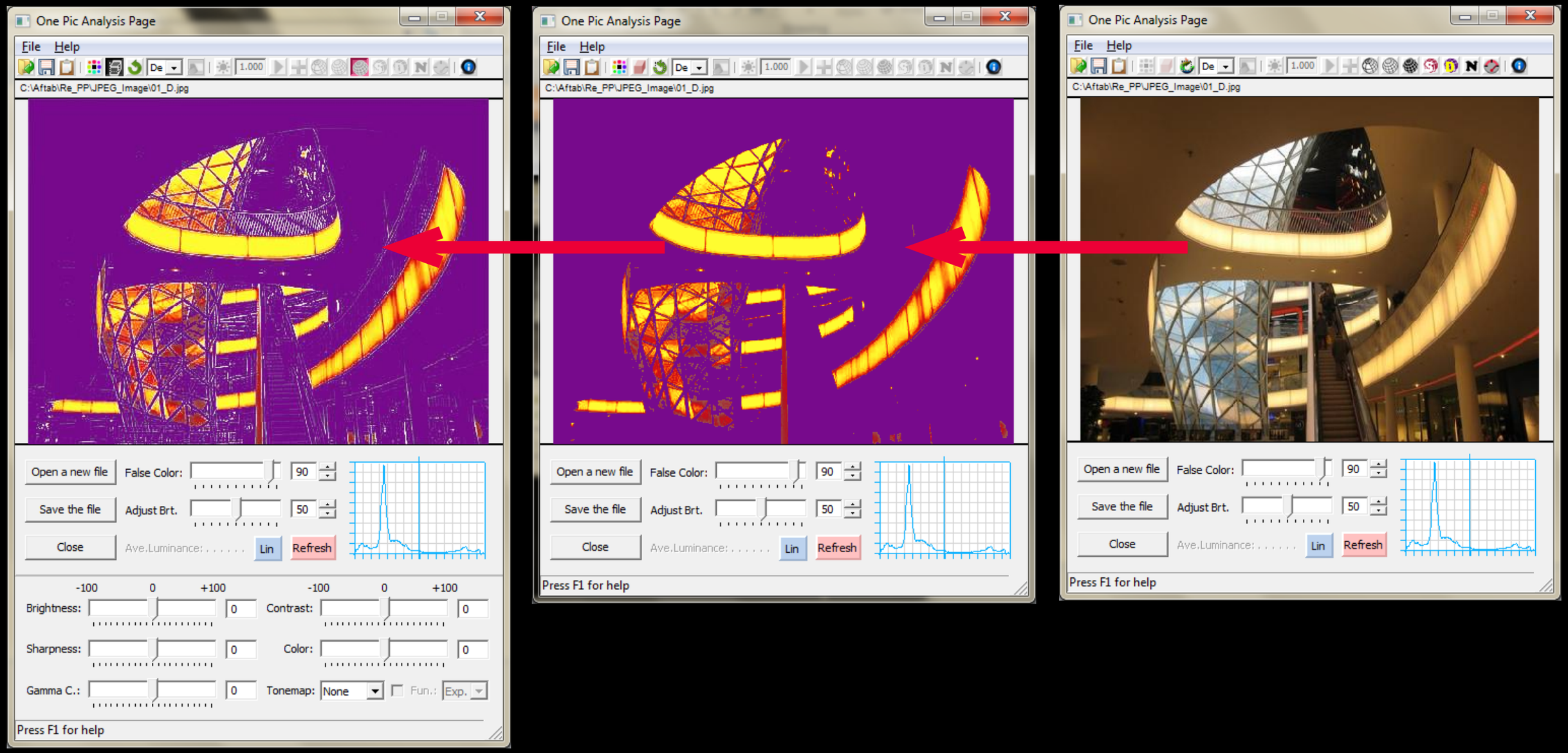
Input file types: JPEG, BMP, GIF, TIF, PNG, DNG, CR2, NEF, CRW, HDR, PIC

- FalseColor images with the possibility to limit the range of brightness levels (just for visual analysis)
- Falsecolor images with 7 different palettes.
- Showing the image histogram.
- Simple tone-mapping



Aftab Alpha, new HDR software

One-Pic Analysis



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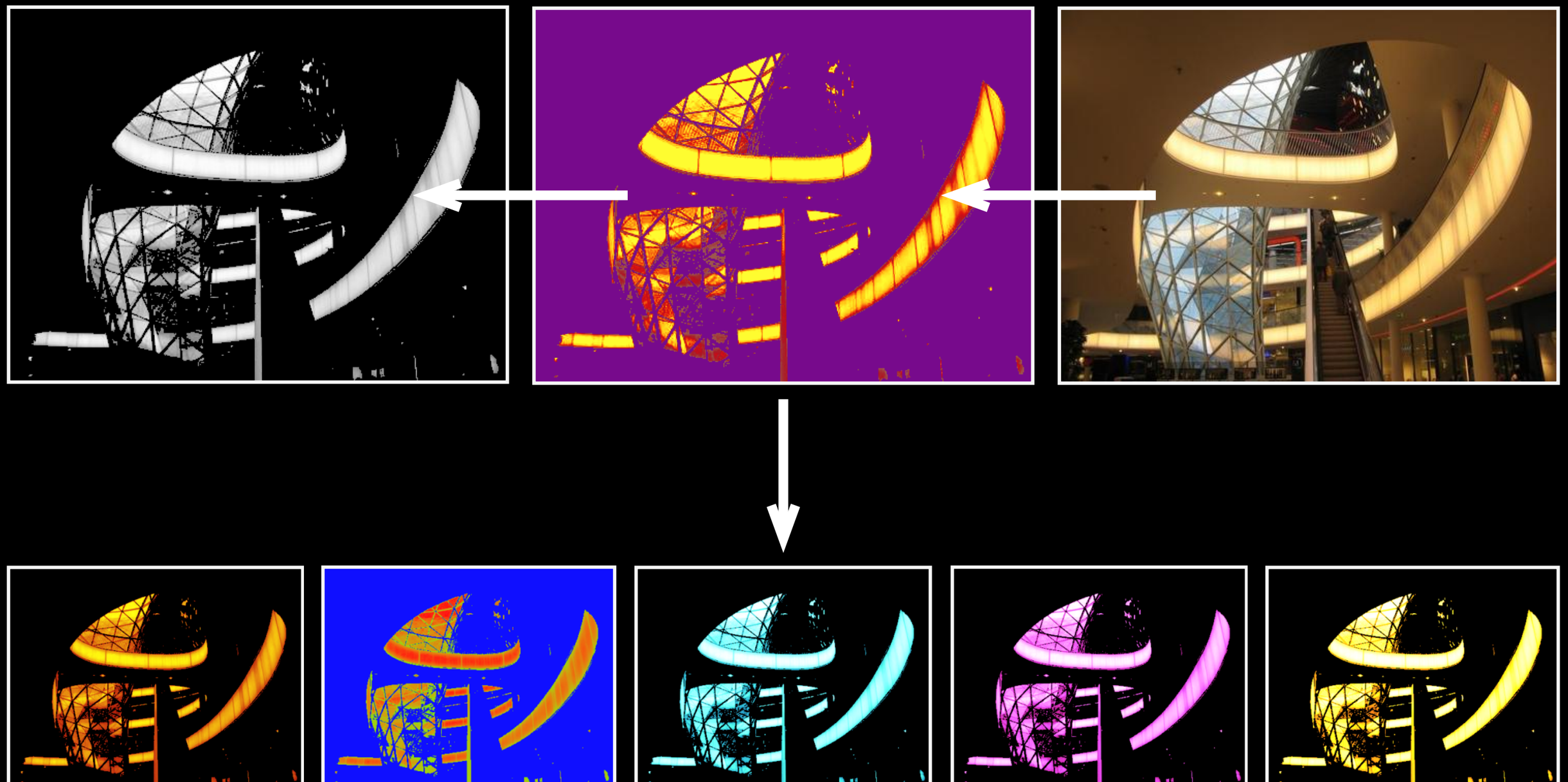
One-Pic Analysis



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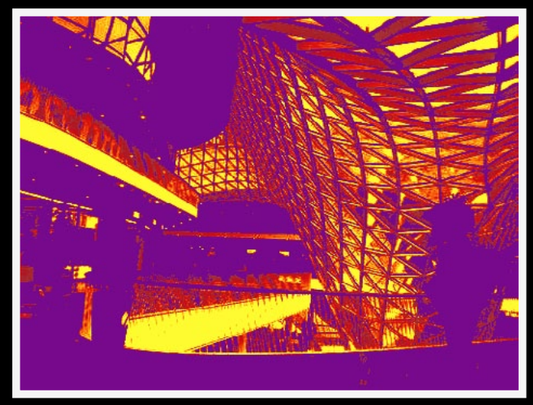
One-Pic Analysis

HDR image -> FalseColor + Wire-Frame



JPEG image -> FalseColor

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Glare Evaluation

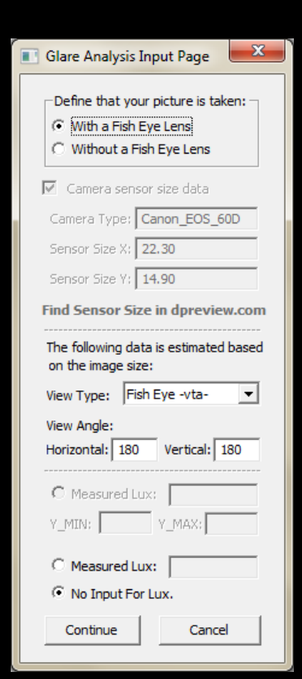
Input file types: HDR, PIC (created in Radiance or generated in Aftab-Alpha)

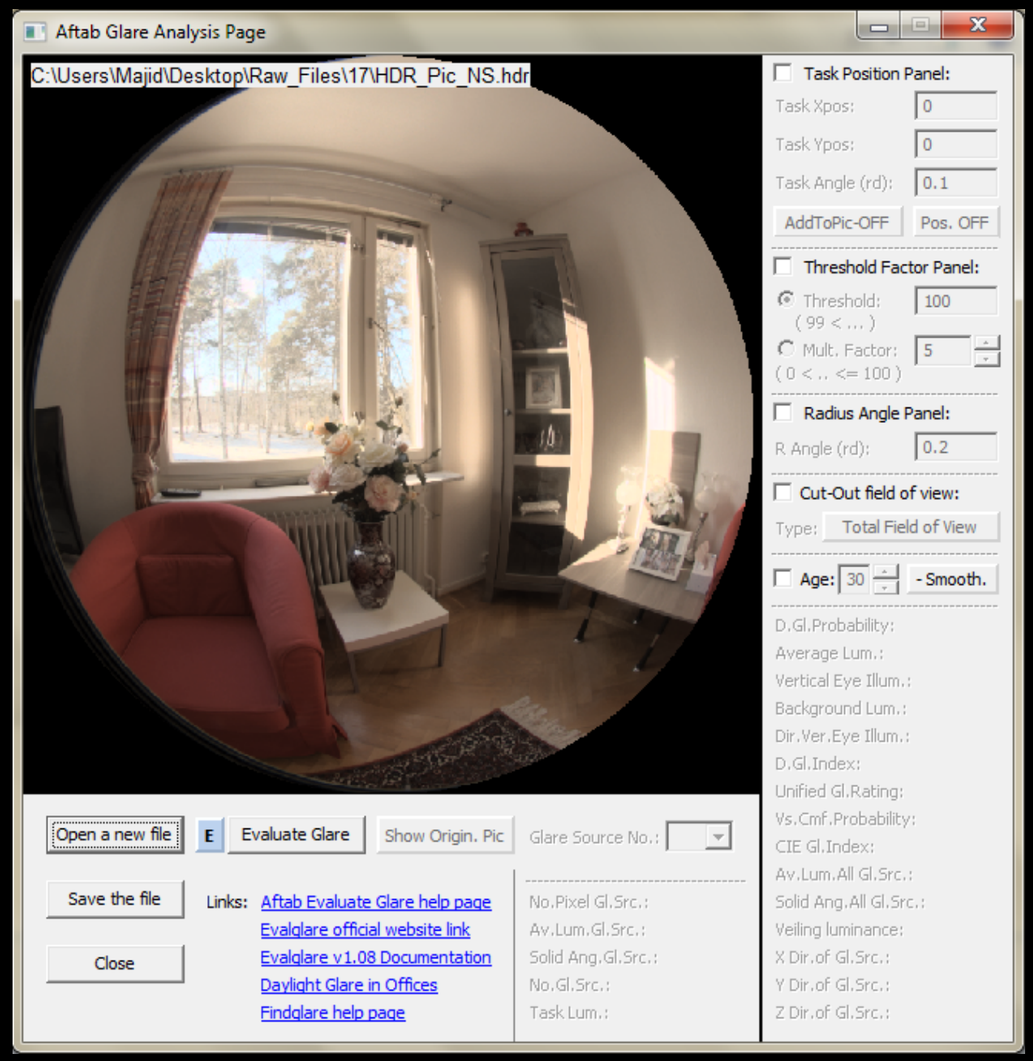
Glare analysis with

- evalglare

or

- findglare





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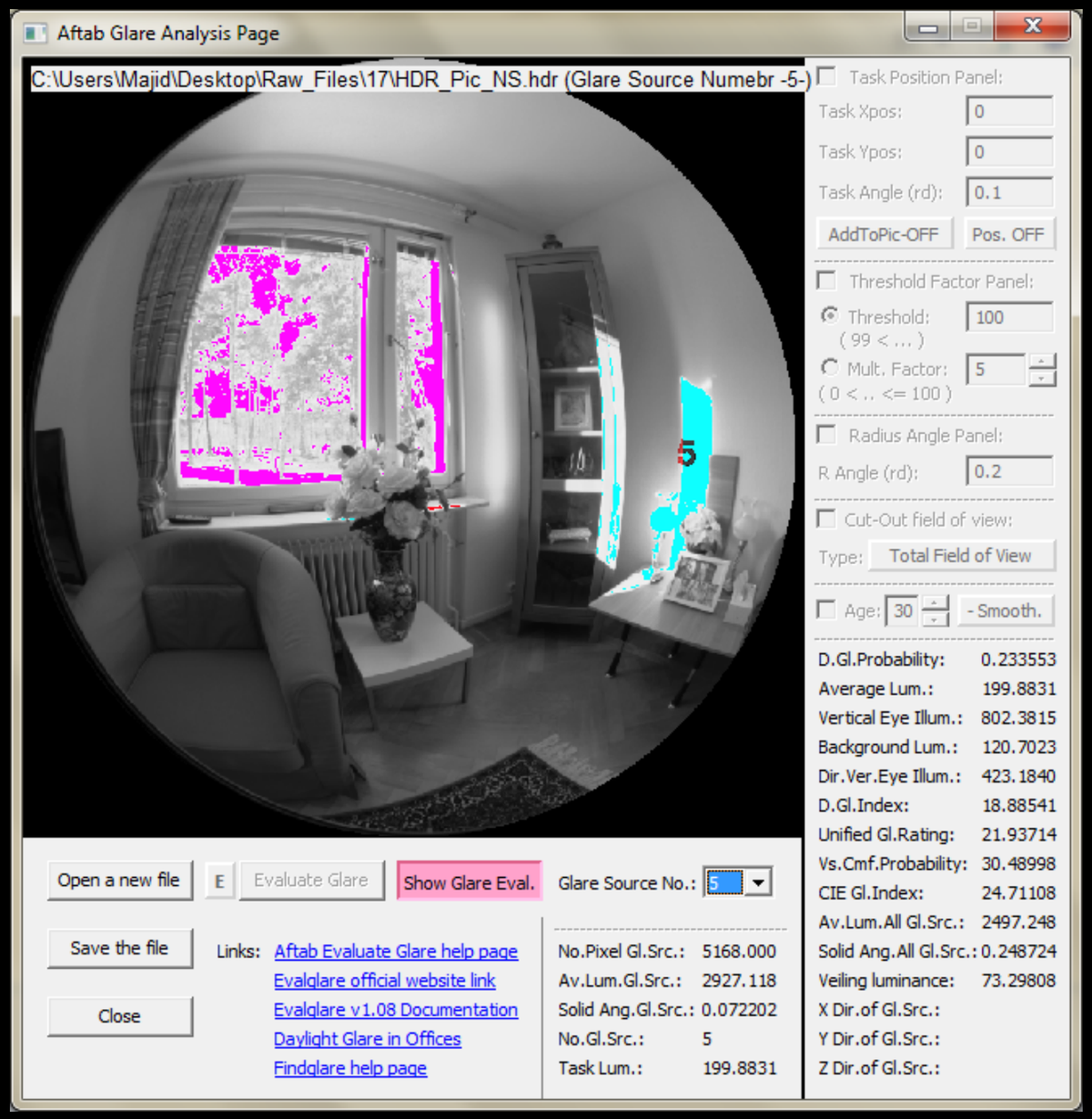
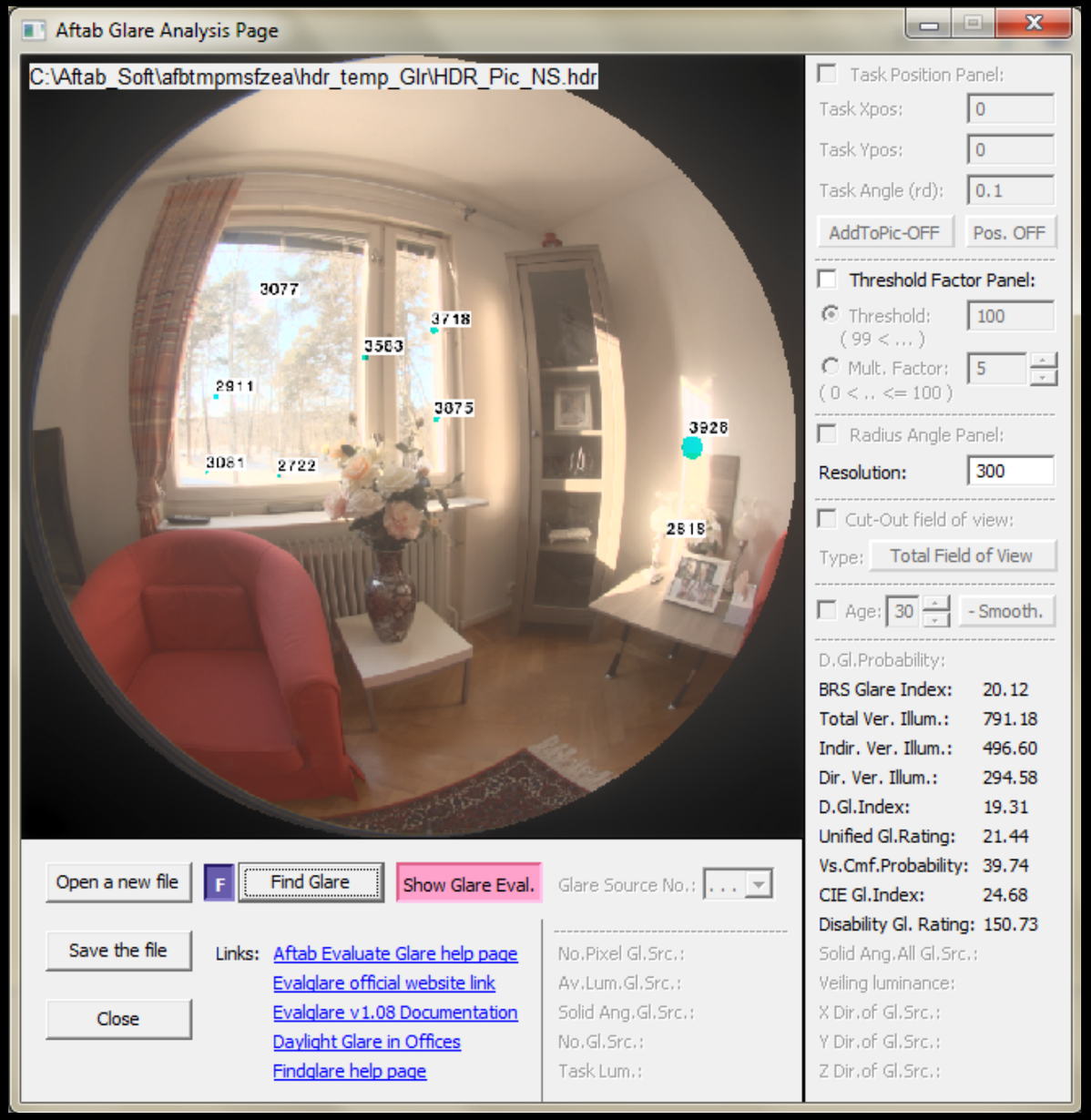
Glare Evaluation



With evalglare

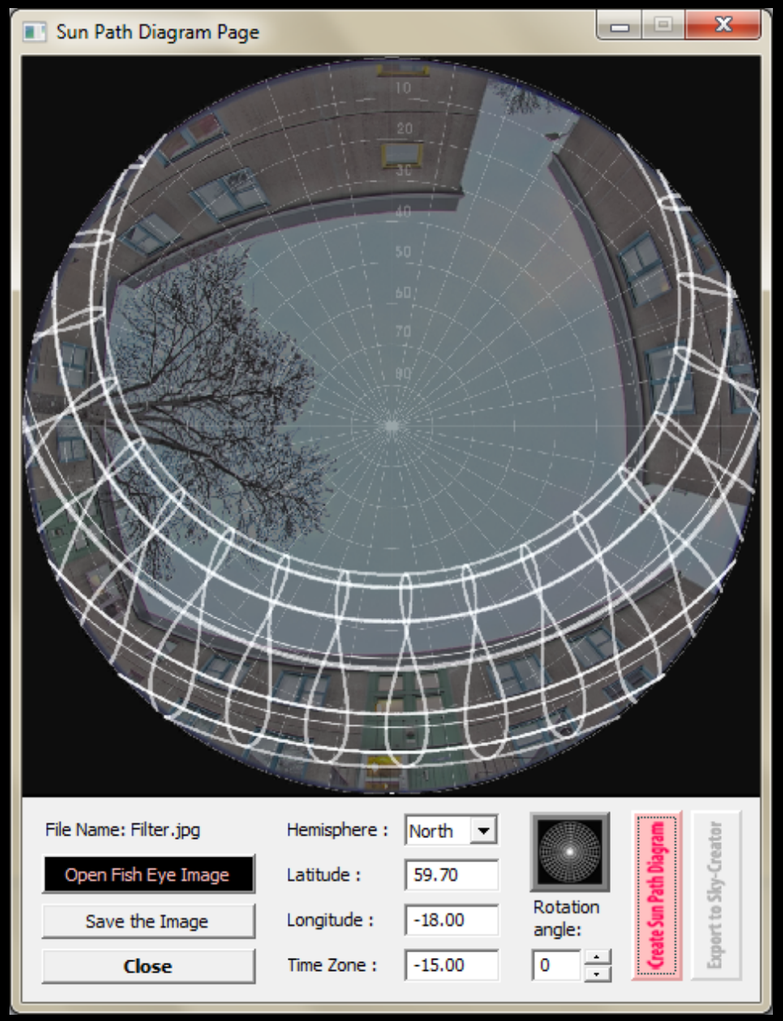


With findglare

Aftab Alpha, new HDR software

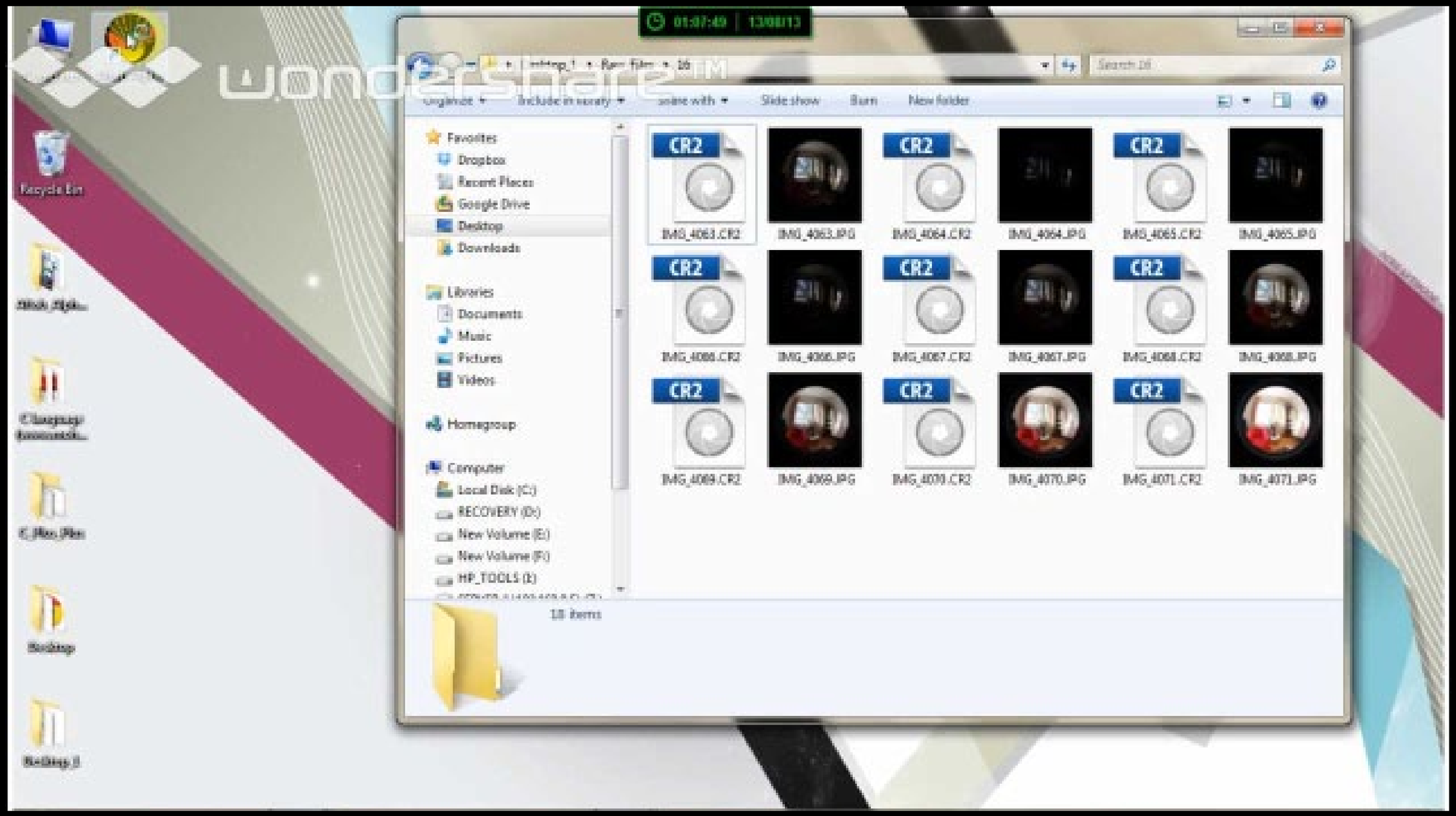
Sun-Path Diagram

Input file types: HDR, PIC, JPEG, BMP, GIF, TIF, PNG



Aftab Alpha, new HDR software

Aftab Alpha introduction video



Aftab Alpha, new HDR software

Download page

You can download the software for 45 days from this link:

http://aftabsoft.net/AftabAlpha/Software/Aftab_Setup.exe

If you fill the registration form from the below link and send it to info@aftabsoft.net you can download and use it for free for one year.

http://aftabsoft.net/AftabAlpha/regform.pdf

For finding some tutorial movies please check the following link:

http://aftabsoft.net/aftabalpha.htm

I really appreciate if you can send your comments, critics or recommendations to info@aftabsoft.net

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Thank you
Tack så mycket
سپاسگذارم