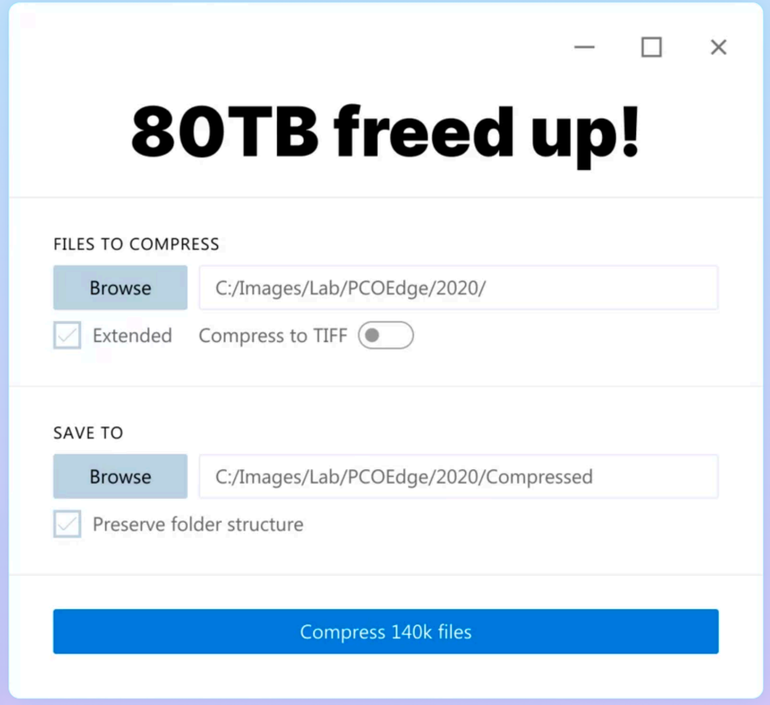
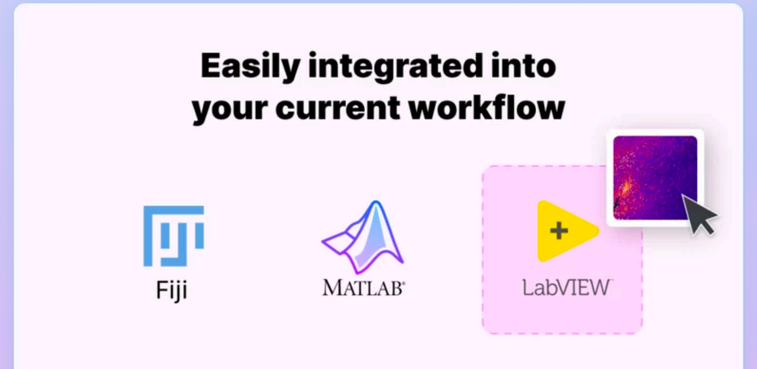
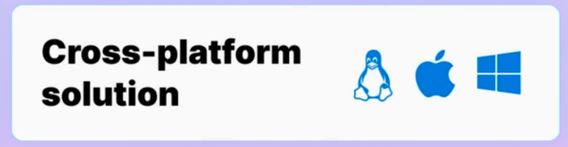
UP TO 10:1

lossless image compression software for industry and research

JetRaw
by Dotphoton







JetRaw key features

JetRaw
by Dotphoton

Up to 10:1

Up to 10:1 lossless compression thanks to innovative scientific approach

Lossless compression

For all unprocessed raw image data

Preserved workflow

Compatible with most image processing software

Your usual TIFF format

Compressed files are encoded into universally acceptable TIFF format

Why you need JetRaw. Manage your raw image data faster

JetRaw
by Dotphoton

80%

Reduce storage costs by 80% (see benefit calculator)

5-10X

Faster image data transfer

∞

Long term preservation with free decoder

100

MPixels/s/core processing power

Easy to set up, fun to use.
JetRaw is a plug and play solution designed for scientific labs from the ground up

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by Dotphoton

COMMAND LINE

Faster image data transfer

SDK

MPixels/s/core processing power

DDL

Reduce storage costs by 80% (see benefit calculator)

Validation

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To validate our compression for applications in microscopy, we partnered with academic institutions and developed a methodology to test the reliability of compressed data in today’s widespread analysis scenarios, as well as testing processing "primitives" to secure compatibility with future applications.

Validated imaging techniques

—2-D and 3-D segmentation
—2-D and 3-D stitching
—Tomography
—Deconvolution
—Particle sizing

Validated cameras

—Fluorescence microscopes
—Phase-contrast microscopes
—Light-sheet microscopes

Validation

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1

The base algorithm is mathematically analyzed and proven to retain information to within a strict bound.

2

The software/ hardware implementation is tested through a series of automated unit, integration and system testing

3

The full system, consisting of camera->compressor->decompressor is "black box" tested, ensuring that the decompressed pixel value is within the original uncertainty of the camera

4

Application testing: academic partners compare results of their image processing algorithms on raw and on compressed data, and verify that these are statistically equivalent.

Customer success is our core value

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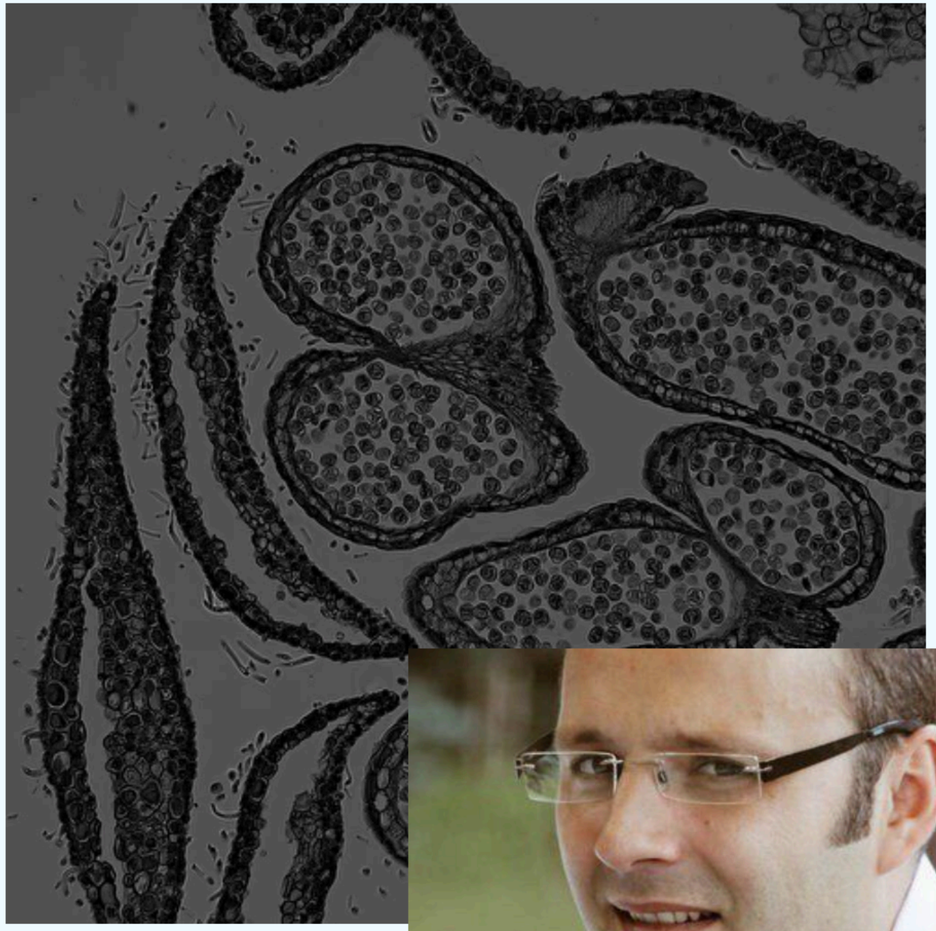
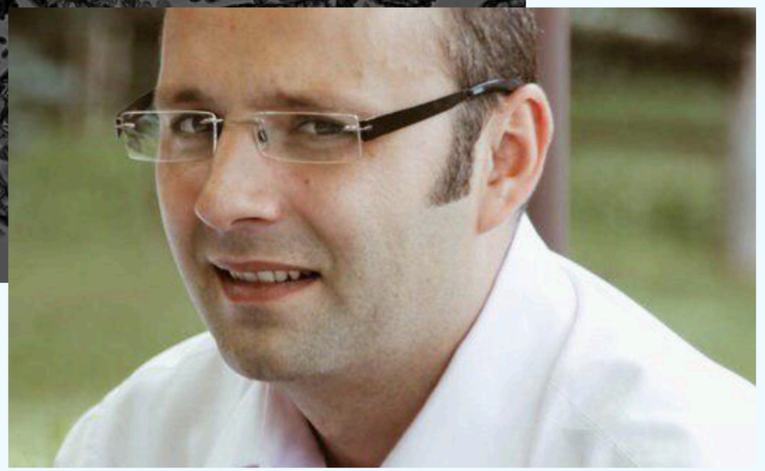
“High Content screening and automated microscopy imaging is generating massive amount of images which we need to store and make available to scientist and the public through open access data repository. This is a huge technical challenge and it has a non-negligible environmental impact. Therefore, I became highly interested by Dotphoton's technology to drastically reduce the size of ou data, without any comprise on its content, which we confirmed through deep image quantifications.”





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