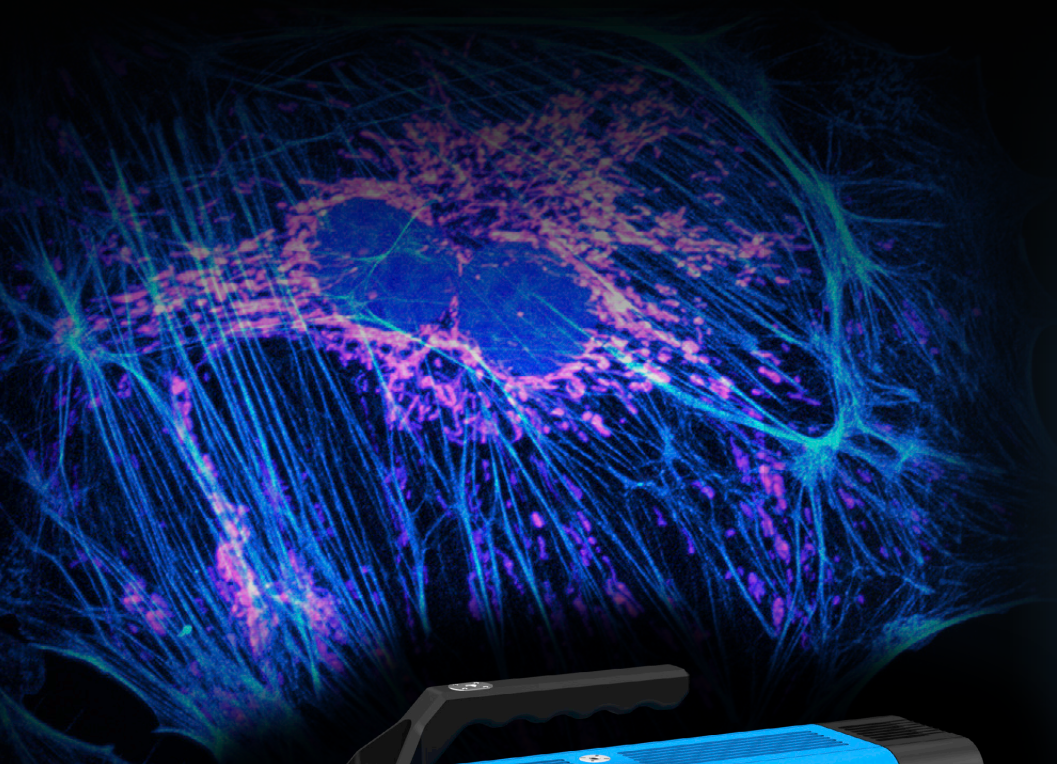


user manual

pco.fileconversion



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Excelitas PCO GmbH asks you to carefully read and follow the instructions in this document.
For any questions or comments, please feel free to contact us at any time.

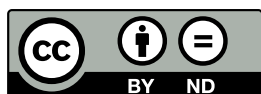


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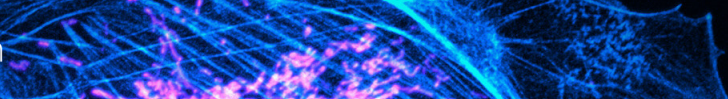
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Contents

| | | |
|----------|--|----------|
| 1 | Introduction | 4 |
| 2 | Converting a file | 5 |
| 2.1 | Shell extension (Windows only) | 5 |
| 2.2 | Command line tool | 7 |
| 3 | About Excelitas PCO | 8 |

1 Introduction

The **pco.fileconversion** is a software package which is able to:

- Convert 16 bit tif, pcoraw and b16 files to various formats
- Display file information
- Show thumbnail images

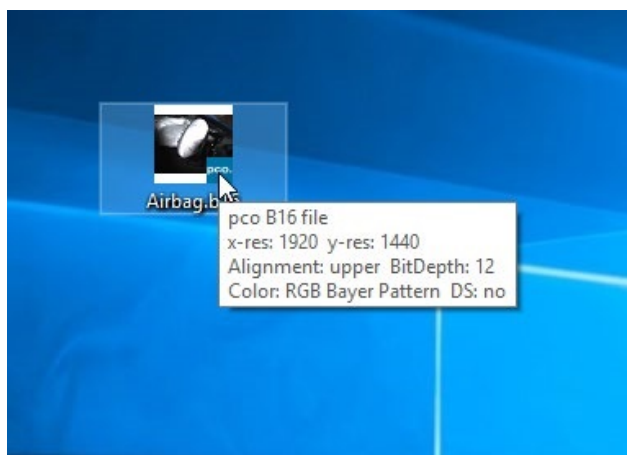
If you need formats beyond the ones that are supplied, you can also develop your own formats. Please contact us via support@pco.de to learn more about this feature.

2 Converting a file

Follow these instructions to convert files under Windows and Linux.

2.1 Shell extension (Windows only)

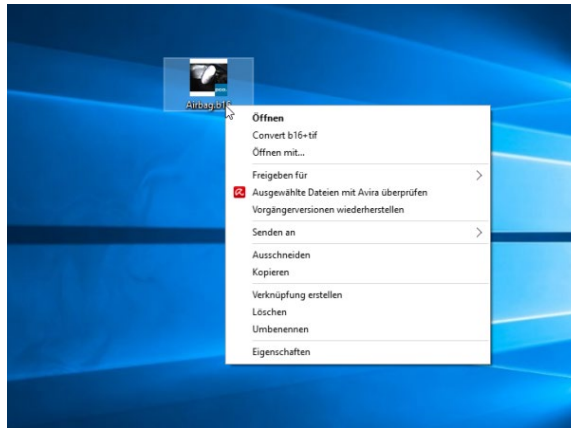
Stopping the mouse cursor while the cursor hovers over a file will show some popup information:



By a mouse right-click and selecting 'properties' you are able to select the pco file information dialog:



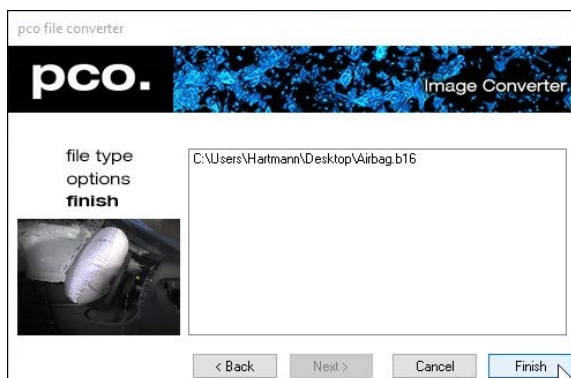
The complete functionality is accessible via the right mouse button or by hovering over the file. Simply right-click on a b16 file and select the menu entry: Convert b16+tif:



After clicking on Convert b16+tif, the pco.fileconversion start screen opens. Please choose destination folder, bit resolution and destination file type:

Some file types have options, which can be changed in the appropriate dialog:

In case all settings are done select finish to convert all selected files:



2.2 Command line tool

The **pco_file_cmd** file can be found in your installation folder. This utility converts (multi) tif, pco-raw, (multi) dicom and b16 into various other formats.

Arguments:

| Parameter | Description |
|-----------|---|
| -i | <Input filename> |
| -o | <Output filename> |
| [-b] | <Output Bits: (8,16RAW,24)> |
| [-n] | <Start#> <Stop#> |
| [-s] | <Scan input digit range>: 1..5 for single input files, e.g. 4 for test_0001.b16 |
| [-m] | <Multi tif in case of tif ext for out> |

Note:

- -i and -o are mandatory parameters.
- [-b] sets the bit range of the file to be written (8, 16 or 24; 16 is default).
- [-n] sets the start and stop image for single files to be written.
- [-s] sets the number of digits for (single) files to be scanned. In this example it relates to 0001 in the file name.
- [-m] creates a Multi-tif file if tif is selected as extension.

Examples:

- `pco_file_cmd -i <file>.tif -o <file2>.b16`: Produces multiple b16 file for a multi tif in or a single file
- `pco_file_cmd -i <file>.pcoraw -o <file2>.b16`: Produces multiple b16 files
- `pco_file_cmd -i <file>.pcoraw -o <file2>.tif -m`: Produces a multi tif file
- `pco_file_cmd -i <file>_0000.b16 -o <file2>.tif -m -s 4`: Produces a multi tif file while scanning for <file>_????.b16
- `pco_file_cmd -i <file>_0000.b16 -o <file2>.tif -m -s 4 -n 10 100`: Produces a multi tif file while scanning for <file>_????.b16 starting with 10 up to 100

3 About Excelitas PCO

Pioneering in Cameras and Optoelectronics (PCO) has been our shared philosophy since our establishment in 1987. Starting with image-intensified cameras, followed by the co-invention of the groundbreaking sCMOS sensor technology, PCO greatly surpassed the imaging performance standards of the day. Acquired by Excelitas in 2021, our PCO camera portfolio continues to forge ahead as a leader in digital imaging innovation across diverse applications such as scientific and industrial research, automotive testing, quality control, and metrology.

With sophisticated mechanical design, extensive software support, and a broad range of accessories, we deliver adaptable solutions for all demands. This adaptability extends to tailor-made firmware and custom image sensors, which allow us to develop highly specialized solutions for all our customers. PCO represents a world-renowned brand of high-performance camera systems that complement Excelitas' expansive range of illumination, optical, and sensor technologies and extend the bounds of our end-to-end photonic solutions capabilities.

Our comprehensive camera portfolio covers the entire spectrum - from deep ultraviolet (DUV) to shortwave infrared (SWIR), from long exposure to high-speed, from line scan to high-resolution area scan. Our camera systems are controlled and processed through an intuitive and powerful software suite addressing an extensive range of platforms and architectures.



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