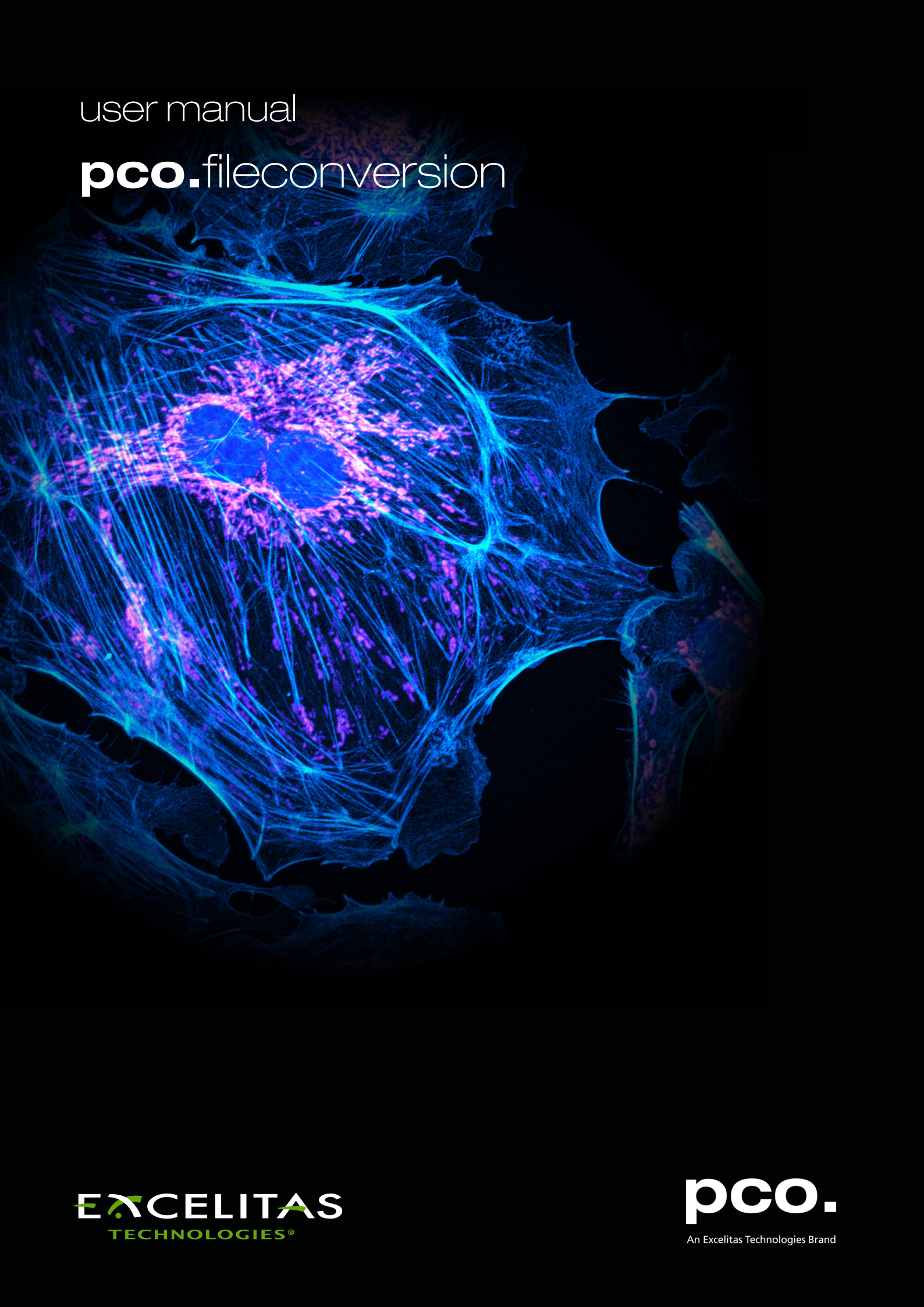


user manual

pco.fileconversion



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.



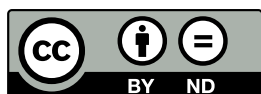
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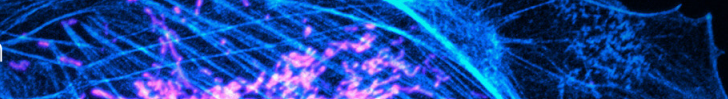
pco.fileconversion user manual 1.24.0

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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

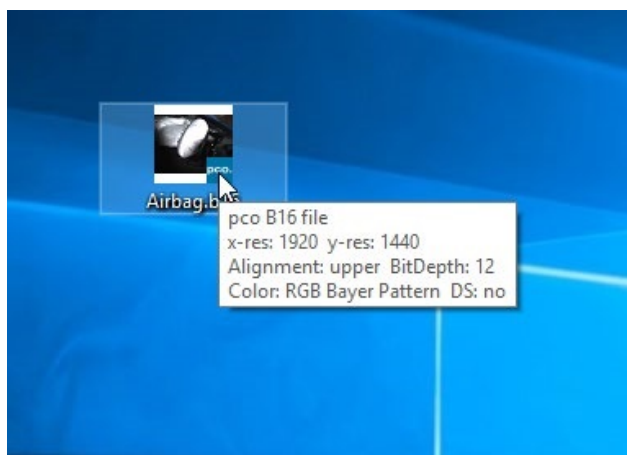
If you need formats beyond the ones that are supplied, you can also develop your own formats. Please contact us via support@pco.de to learn more about this feature.

2 Converting a file

Follow these instructions to convert files under Windows and Linux.

2.1 Shell extension (Windows only)

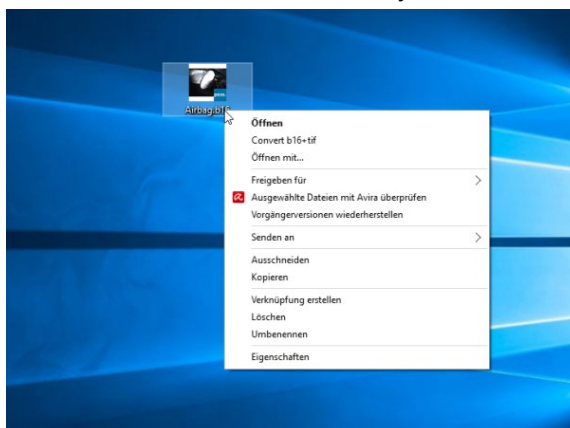
Stopping the mouse cursor while the cursor hovers over a file will show some popup information:



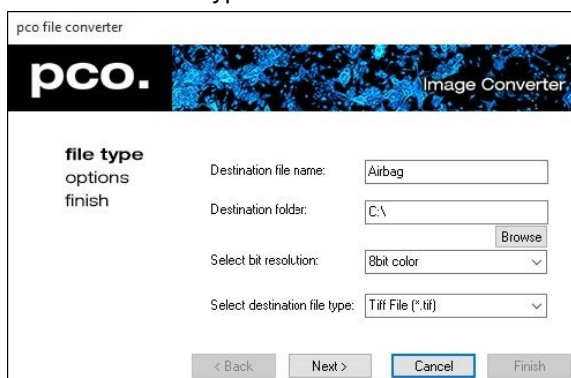
By a mouse right-click and selecting 'properties' you are able to select the pco file information dialog:



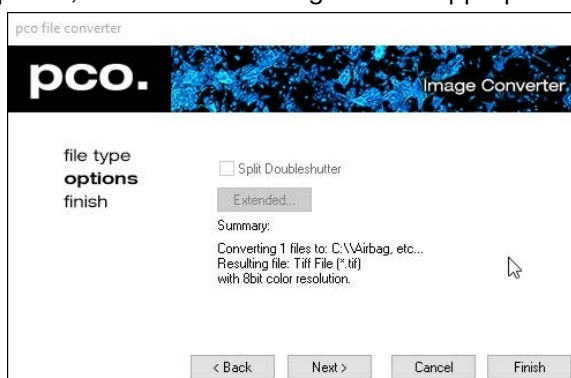
The complete functionality is accessible via the right mouse button or by hovering over the file. Simply right-click on a b16 file and select the menu entry: Convert b16+tif:



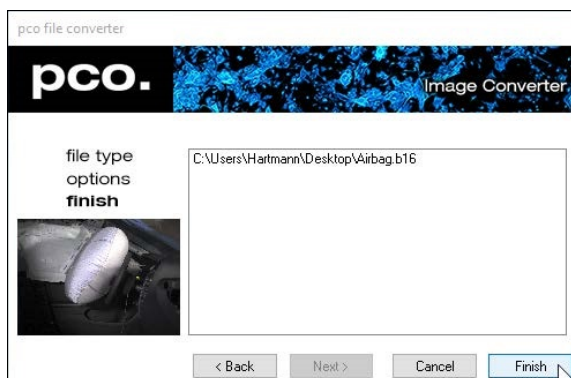
After clicking on Convert b16+tif, the pco.fileconversion start screen opens. Please choose destination folder, bit resolution and destination file type:



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, pcoraw, (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 -i <file>.tif -o <file2>.b16`: Produces multiple b16 file for a multi tif in or a single file
- `pco_file -i <file>.pcoraw -o <file2>.b16`: Produces multiple b16 files
- `pco_file -i <file>.pcoraw -o <file2>.tif -m`: Produces a multi tif file
- `pco_file -i <file>_0000.b16 -o <file2>.tif -m -s 4`: Produces a multi tif file while scanning for <file>_????.b16
- `pco_file -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

PCO, an Excelitas Technologies® Corp. brand, is a leading specialist and Pioneer in Cameras and Optoelectronics with more than 30 years of expert knowledge and experience of developing and manufacturing high-end imaging systems. The company's cutting edge sCMOS and high-speed cameras are used in scientific and industrial research, automotive testing, quality control, metrology and a large variety of other applications all over the world.

The PCO® advanced imaging concept was conceived in the early 1980s by imaging pioneer, Dr. Emil Ott, who was conducting research at the Technical University of Munich for the Chair of Technical Electrophysics. His work there led to the establishment of PCO AG in 1987 with the introduction of the first image-intensified camera followed by the development of its proprietary Advanced Core technologies which greatly surpassed the imaging performance standards of the day.

Today, PCO continues to innovate, offering a wide range of high-performance camera technologies covering scientific, high-speed, intensified and FLIM imaging applications across the scientific research, industrial and automotive sectors.

Acquired by Excelitas Technologies in 2021, PCO represents a world renowned brand of high-performance scientific CMOS, sCMOS, CCD and high-speed cameras that complement Excelitas' expansive range of illumination, optical and sensor technologies and extend the bounds of our end-to-end photonic solutions capabilities.

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