

Breeze - Import data guide

This user guide will show how to import different types of data, image files and Breeze study files into Breeze.

Available types of import

Feature name	Description
Import images	Import image data files such as hyperspectral images (e.g. .raw files)
Import variables and id data	Import variables and id from separate spreadsheet file (e.g. .xls file, with known class labels or continuous data) for training a classification or quantification model. Observations in different rows and variables in different columns. Automatic matching with sample/image based on measurement name column in the spreadsheet.
Import variables from image file(s)	Import variable values from images where each pixel has been matched to values for one or several variables. Values will be mapped to pixels in the image.
Import study	Import Breeze study with recorded measurements (images), connected models and Analyse Tree

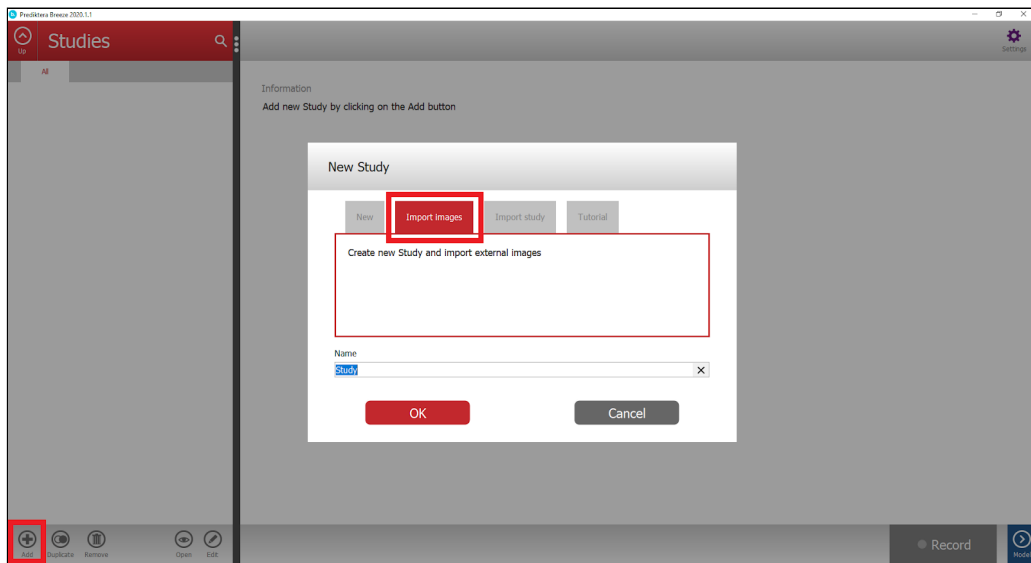
Supported image file formats:

File format	Extensions
Breeze xml file	xml
ENVI Files	bil, bip, bsq, raw, img, bin, dat
HySpex	hispex
Matlab files	mat
HDF files	h5, hdf
Image files	jpg,jpeg,wbmp,png,wbmp,bmp,pbm,pgm,ppm,pcx,tif,tiff,gif,bmp,jp2
SAC file	sac
HIPS File	hips

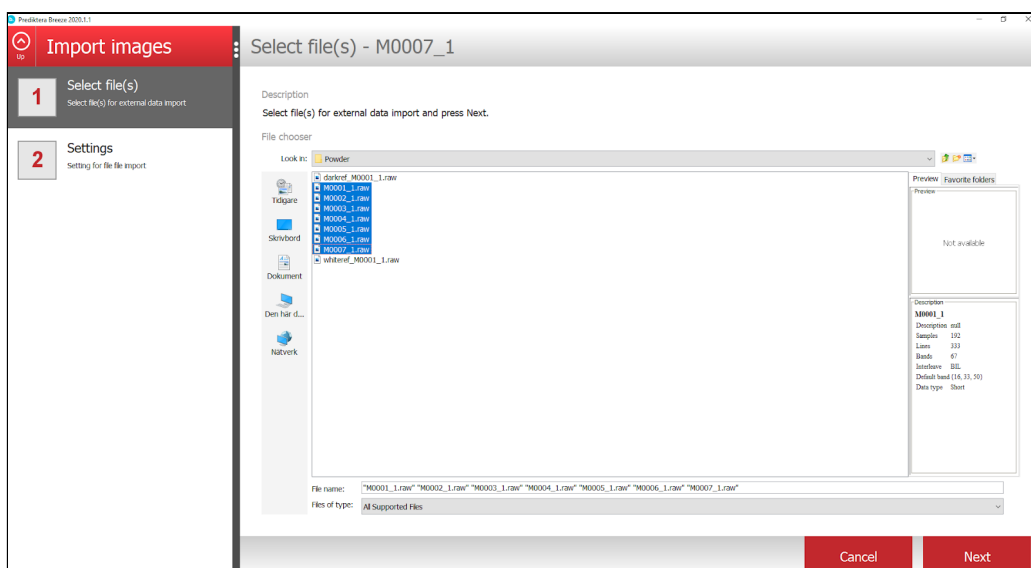
Import images - using one dark and one white reference file for all imported images

1. **Start Breeze**
2. Enter the Record view by **pressing the “Record” button.**
3. Press the **“Add”** button at the bottom left to make a new Study. You will then see the following view (to import images to an existing study, see end of this user guide).
4. **Select the “Import images” tab.**

Press OK to start Import data wizard

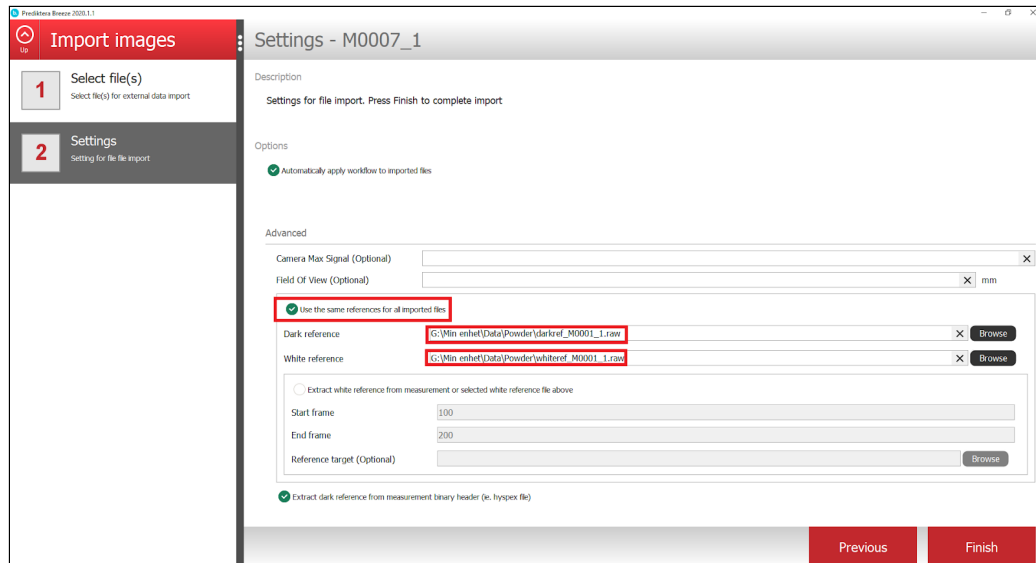


5. **Browse to folder with files to import**
6. **Select one or several files**



7. **Press Next**

8. Under “Advanced” **Select “Use the same reference for all imported files”**
Browse or enter path for “**Dark reference**” and for “**White reference**”



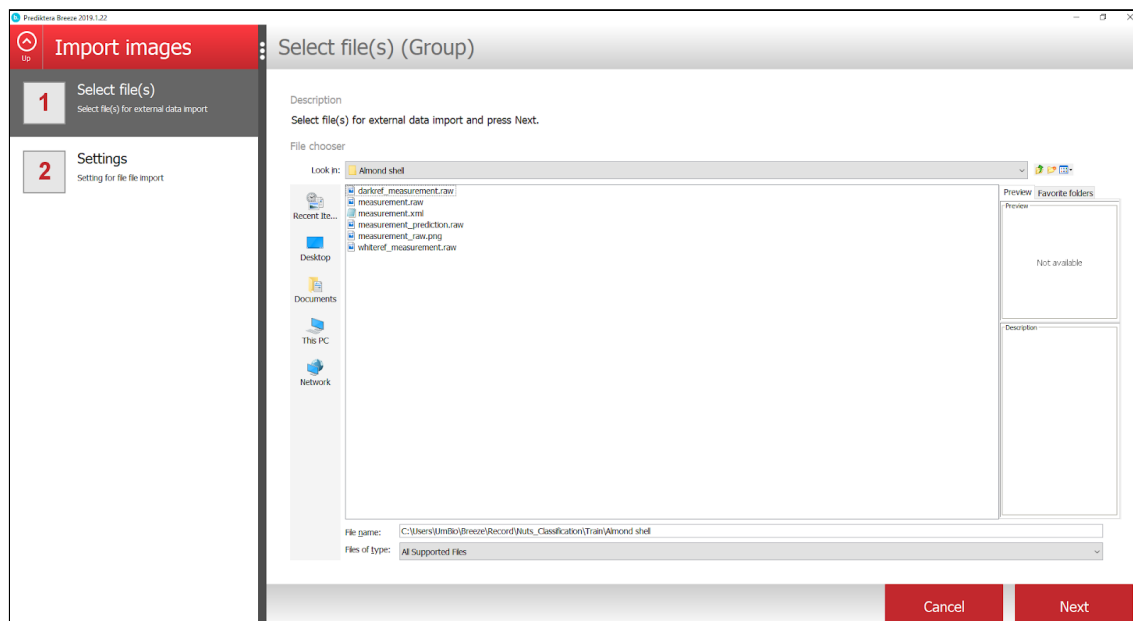
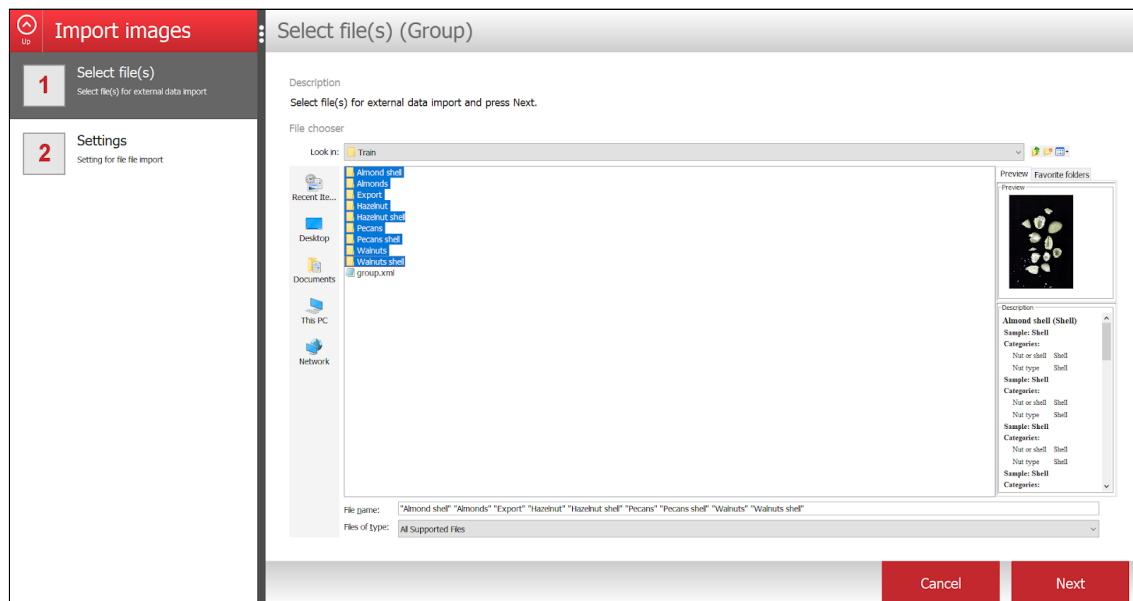
9. **Press Finish** to complete the import
10. Your data will be imported into Breeze.
 If “**Automatically apply workflow to imported files**” is selected then the segmentation specified in the “**Analysis Tree**” will be applied to the imported image files.

Description of options:

- **Camera max signal (Optional)**
 The camera maximum signal value. This will for example, be used for white reference values for saturations.
- **Field of view (Optional)**
 The width of the image data files in millimeters. The field of view will be used to convert pixel values into millimeters for example for the size of identified objects.
- **Use the same reference for all imported files**
 Import one or several image data files and apply only one dark and white reference file to all imported files.
- **Extract white reference from measurement or selected white reference file above**
 Set the start and end frame numbers from the imported image where the white reference should be extracted from. Either it will be from the imported image or a separate file, Reference target (optional).
- **Extract dark reference from measurement binary header (i.e. Hypspx file)**
 If the image is .hypspx file the dark reference will be extracted and applied to calculate pseudo absorbance

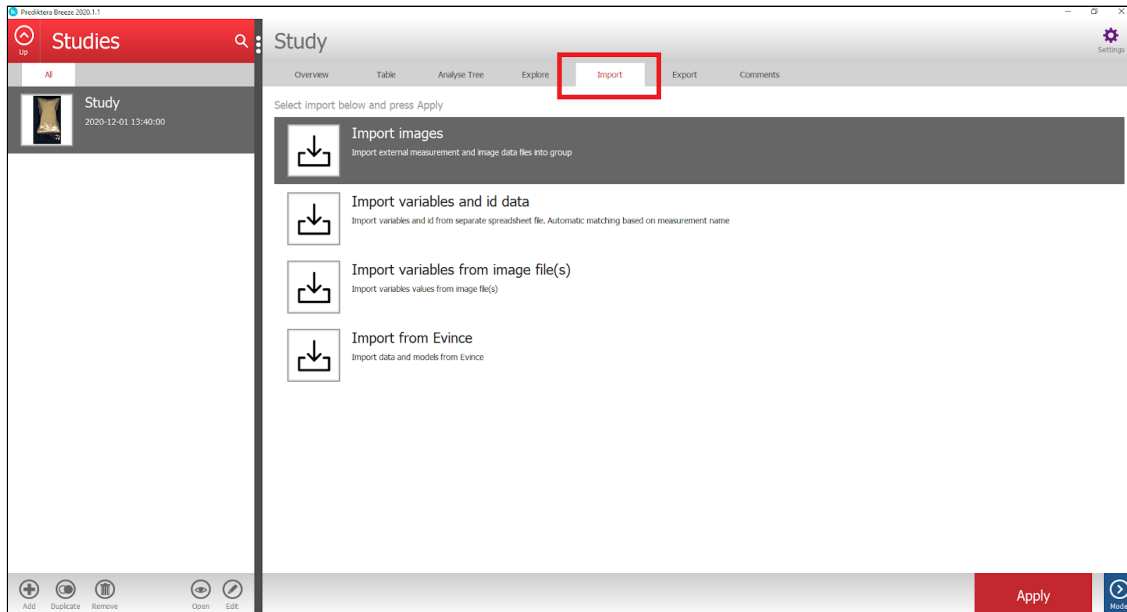
Import of images - using different white and dark references

If the images are located in separate folders and the white and dark references for each image are located in each of these folders, it will automatically be applied to each image in Breeze.



Import into an existing study

Images and data can also be imported into your already created study by using the **“Import”** tab.



You will then be prompted to select a Group or to create a new Group

