

Leica BLK3D Desktop



- when it has to be **right**

Leica
Geosystems

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Product registration

Register or use an existing account to login to myWorld:

<https://myworld.leica-geosystems.com/irj/portal>

1. Click on "myProducts".
2. Click on "Add Product".
3. Select "Software".
4. Insert your entitlement ID (your entitlement ID (EID) can be found on your BLK3D invoice).

Software download

1. Click on "BLK3D Desktop".
2. Download the installer from the "Software" section.

Software installation

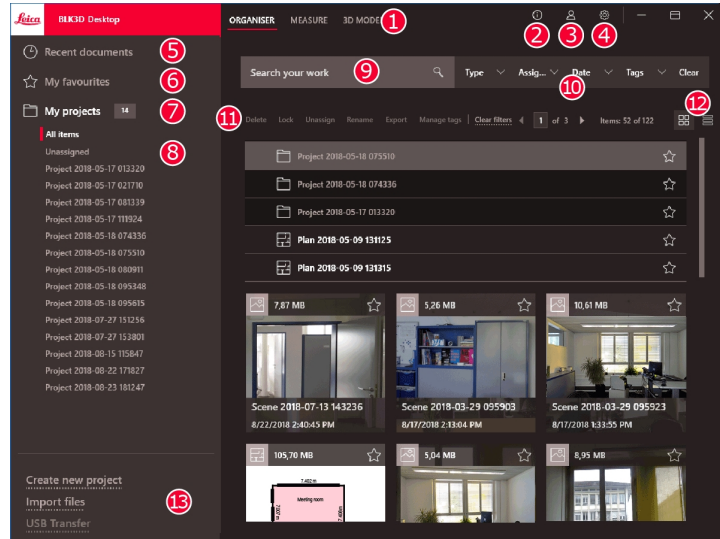
Start the installer on your computer and follow the instructions.



Minimum system requirements for the installation:
Windows 8.1 / 10 with 64-bit and 6 GB RAM

Overview

The Leica BLK3D Desktop is a special software for organising, measuring and 3D-modelling of data collected with the Leica BLK3D Imager.



10. [Filter functions](#) (Type, Assignment, Date, Tags)
11. [Actions for selected files](#) (Delete, Lock/Unlock, Reset, Unassign, Rename, Export, Manage Tags)
12. Switch between list view and tile view
13. Handling new files ([Create New Project](#), Import Files, USB Transfer)

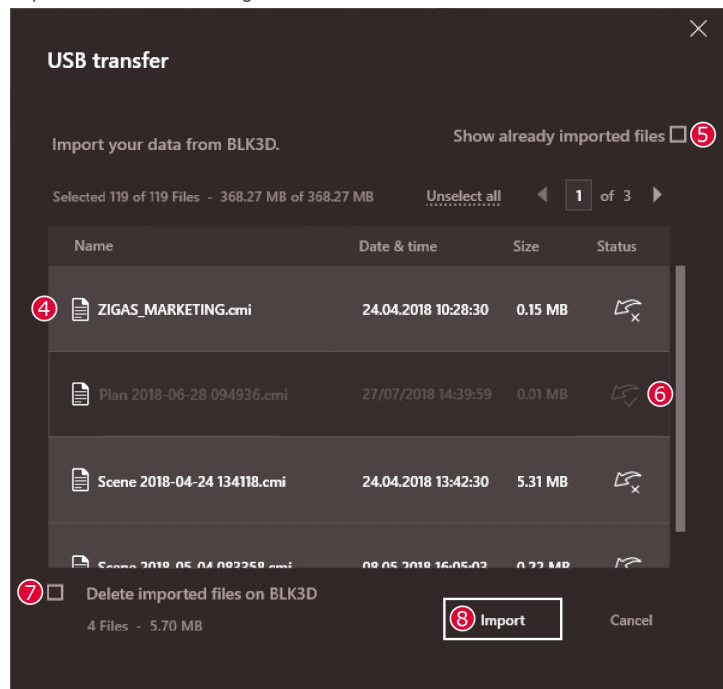
1. Main modules
2. Check for license, software information and available updates
3. User details
4. [Settings](#)
5. Recent documents: display all recently opened files
6. [My favourites](#): save files as favourites. You can rename a favourite by double-clicking on it.
7. My projects: allows to navigate between projects
8. Unassigned: show files which are not project content (Plans, 3D Images)
9. Search function with filter effect. You can filter the data by their name or tags.

Import Files

There are 3 ways of importing files to the BLK3D Desktop application:

- Import from BLK3D Imager (see description below)
- Import from computer, using the "Import files" function in [ORGANISER](#)
- Import via data path in [Settings](#)

Import files from BLK3D Imager:

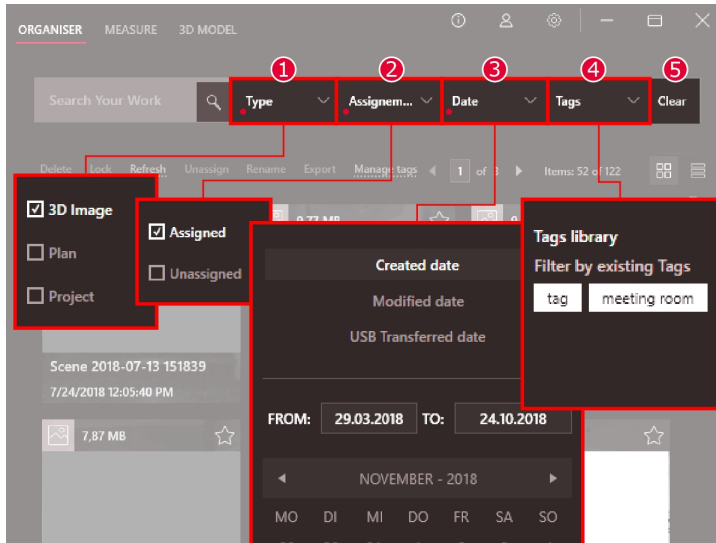


1. Start BLK3D Desktop software.
2. Connect your BLK3D to the computer using an USB cable.
3. "USB transfer" dialog starts automatically.
4. Select file(s) to be imported to the BLK3D Desktop. Use "CTRL" and "SHIFT" key for multiselection.

All not yet imported files are automatically selected.
5. Check "Show already imported files" to display the files that have already been imported to the BLK3D Desktop (optional).
6. See import status of the files in the "Status" column ("Imported" or "Not imported").
7. Check "Delete imported files on BLK3D" to delete transferred files on the BLK3D Imager after completed transfer (optional).
8. Click the "Import" button.

Filter functions

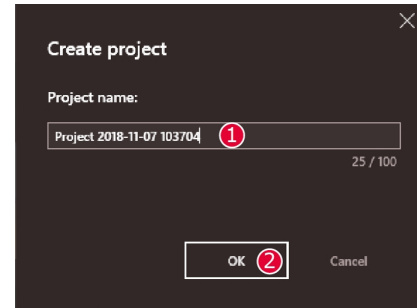
The BLK3D Desktop application offers different ways of filtering existing files. If a filter option has been set it is highlighted with a red dot.



1. **Type:** filter files by Type (3D Image, Plan, Project)
2. **Assignment:** filter files by Assignment status (Assigned to project, Unassigned)
3. **Date:** filter files by Date (Created date, Modified date, USB Transferred date)
4. **Tags:** filter files by Tags
5. **Clear:** clear all filter options

Create new project

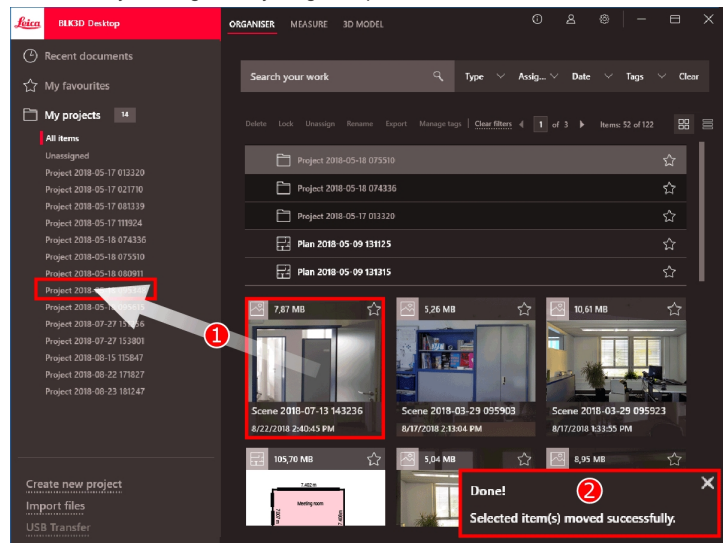
Projects can be used to organise your 3D Images and plans to get a progressive project documentation for architecture, engineering and construction.



1. Use the "Create new project" function in Organiser to create a new project folder. Use the default name or add a custom one in the text field. You can also create a new project by clicking in the "My projects" section with the right mouse button.
2. The new project will be added to "My projects" section. Plans and 3D Images can be moved into project folders, see section [Drag & Drop files into a project](#).

Drag & Drop files into a project

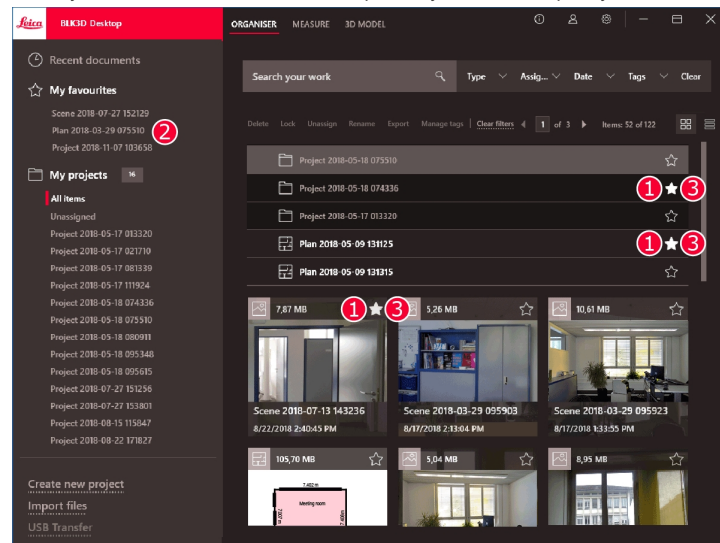
You can easily rearrange files by Drag & Drop.



1. Drag & Drop one or more 3D Images or Plans at the same time into a project.
2. The action will be confirmed with a message.

Adding files to "My Favourites" section

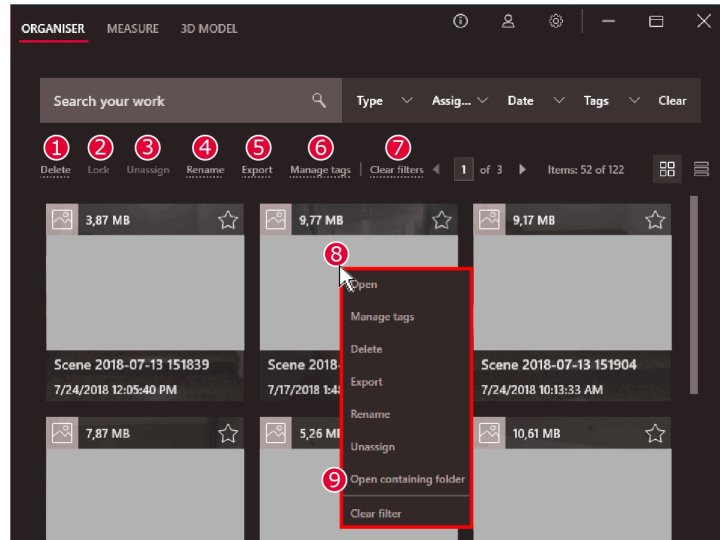
The "My favourites" section offers another quick way to access frequently used files.



1. Click the star symbol of the file(s) you want to mark as favourite(s).
2. Favourite files are displayed in "My favourites" section.
3. Remove file(s) from "My favourites" section by clicking again the star symbol, deleting them directly from the "My favourites" list or using "Delete" key from keyboard.

Actions for selected files

The BLK3D Desktop application offers several options to handle your files.



8. You can also access those actions by clicking on the files with the right mouse button.
9. **Open containing folder:** open storage folder in Windows Explorer.

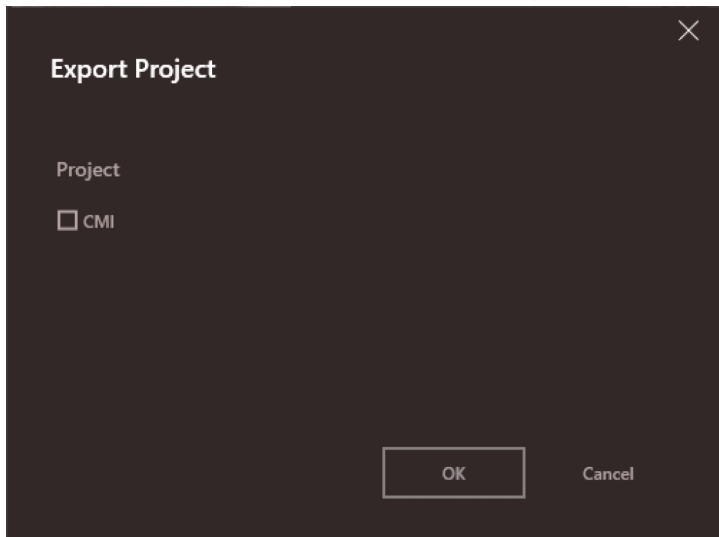
1. **Delete:** delete selected file(s).
2. **Lock:** protect selected project from modifications. Unlock using the same function.
3. **Unassign:** removes selected file(s) from a project. The files can then be found in "Unassigned".
4. **Rename:** rename selected file.
5. **Export:** export selected projects (CMI), plans (CMI, PDF Plan, PDF Plan+3D Images, DXF 2D, DWG 2D, DXF 3D, DWG 3D) or 3D Images (CMI, PDF).
6. **Manage tags:** add or remove a tag from selected file(s)
7. **Clear filters:** refresh display and clear all filter actions. Alternatively you can also press the "F5" button on your keyboard.

Export Files



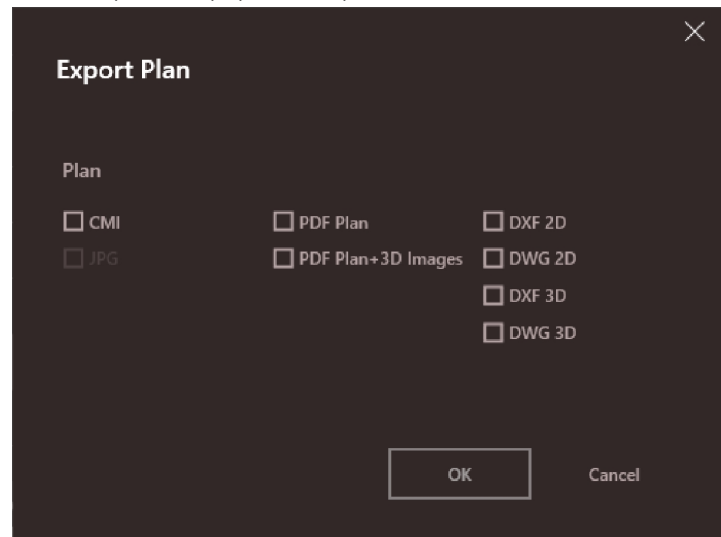
Export files with "Export" in the toolbar or in the context menu when clicking the right mouse button.

Project can be exported only in CMI format. Export of multiple projects is also possible.



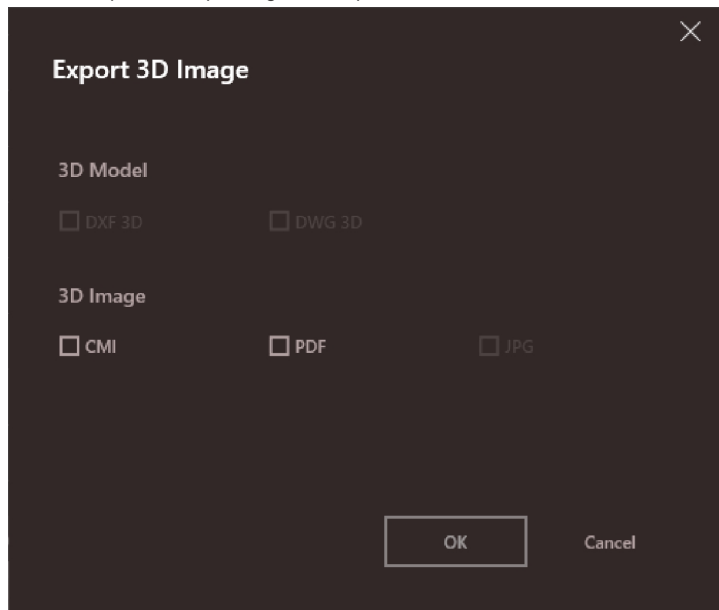
Plan can be exported in different formats:

- CMI, PDF Plan, PDF Plan+3D Images, DXF 2D, DWG 2D, DXF 3D, DWG 3D
- JPG export is only possible in MEASURE and 3D MODEL mode
- Export of multiple plans is also possible

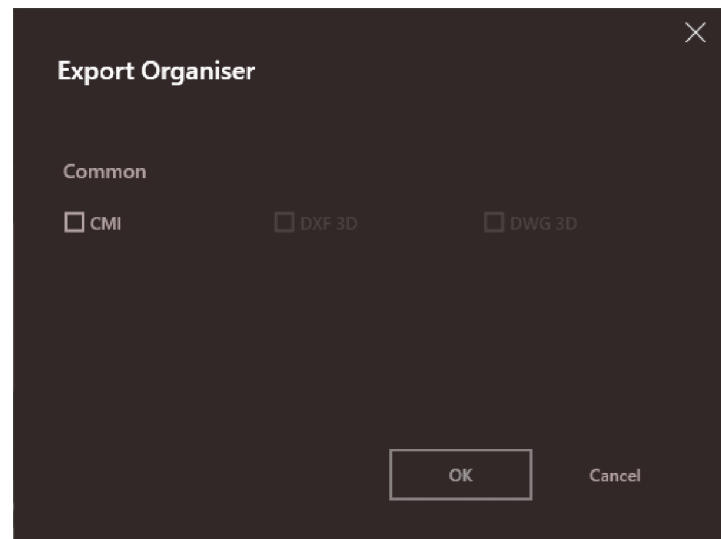


3D Image can be exported in different formats.

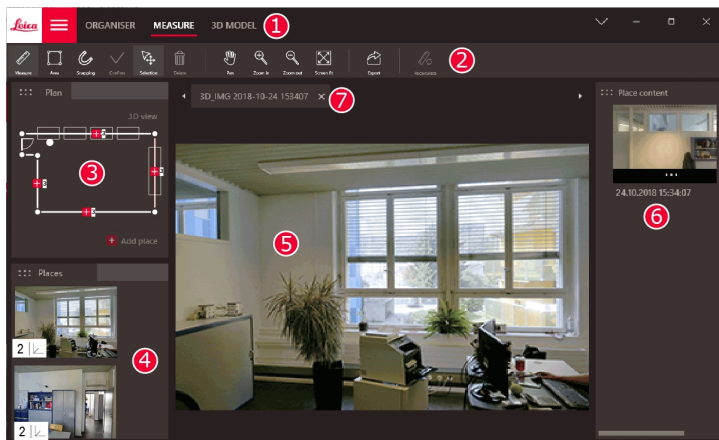
- CMI, PDF and in DXF 3D, DWG 3D if 3D model exists
- JPG export is only possible in MEASURE and 3D MODEL mode
- Export of multiple Images is also possible



It is also possible to export mixed items (projects+plans+3D Images), but only in CMI format.



Overview



1. Main modules
2. [Toolbar](#)
3. Plan window
4. Places window
5. 3D Image window
6. Place content window
7. Tabs of opened files in Measure

Toolbar



Measure: measure distances in photo.



Area: measure areas in photo.



Snapping: automatic snap to edges and corners in photo. Position the cursor over the 3D Image and hold it in position for 1 second. The cursor will automatically jump to the snapping position.



Confirm: finish a distance or area measurement in the photo. Alternatively you can also press the "Enter" button on your keyboard.



Selection: select point/line/area.



Delete: delete selected point/line/area. Alternatively you can also press the "Delete" button on your keyboard. "Delete" can be used also to remove selected places or 3D Images.



Pan: move photo in all directions. Alternatively you can also use your middle or right mouse button for panning.



Zoom In: increase zoom factor. Alternatively you can also use your mouse wheel to adjust the zoom factor.



Zoom Out: decrease zoom factor. Alternatively you can also use your mouse wheel to adjust the zoom factor.



Screen Fit: adjust zoom factor to screen size.

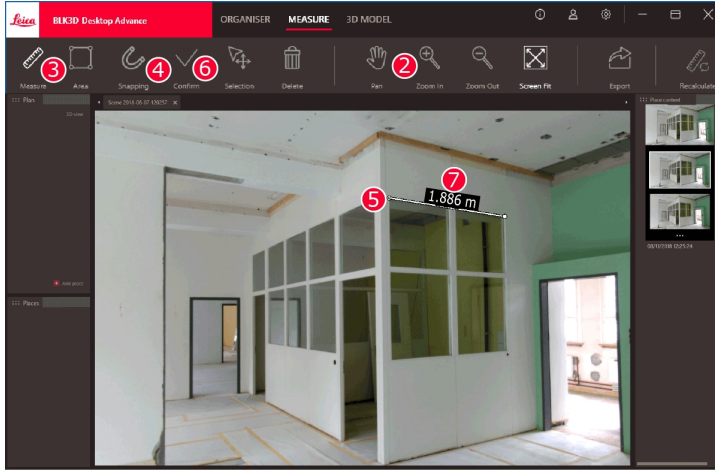


Export: export Plan (CMI, JPG, PDF Plan, PDF Plan+3D Images, DXF 2D, DWG 2D, DXF 3D, DWG 3D) or 3D Image (CMI, PDF, JPG).




Recalculate: increase the accuracy of the existing measurements when the multi-shot 3D Image has been loaded.

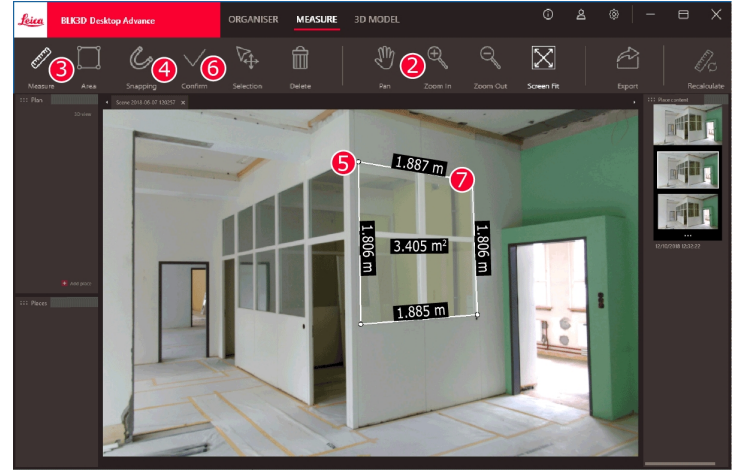
Measure distances in photo



1. Double-click on a 3D Image in ORGANISER to open it in MEASURE mode. Alternatively you can also right click on the file and select "Open" in the context menu.
2. Optimize the visibility of the distance you want to measure by using the "Pan", "Zoom In" and "Zoom Out" function from the toolbar.
3. Select "Measure" in toolbar.
4. "Snapping" function for automatic snapping to edges and corners in photo is activated by default.
5. Click on the end points of the distance you want to measure in the photo.
6. Click on "Confirm" to finish defining the distance(s) or use the "Enter" key from your keyboard. Alternatively you can also confirm by clicking with the right mouse button.
7. After a short calculation the measured results are automatically displayed.

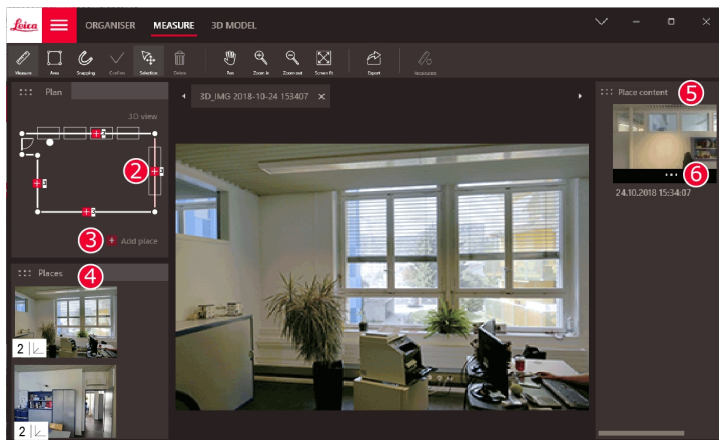
 Select and click on the line with the right mouse button to check details, change the color or delete.

Measure areas in photo



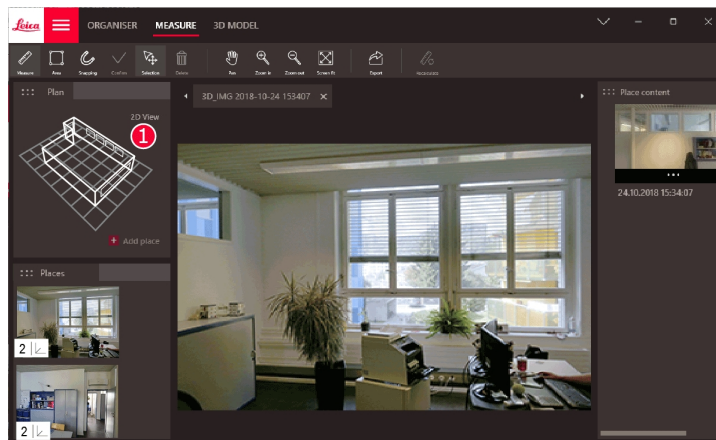
1. Double-click on a 3D Image in ORGANISER to open it in MEASURE mode. Alternatively you can also right click on the file and select "Open" in the context menu.
2. Optimize the visibility of the area you want to measure by using the "Pan", "Zoom In" and "Zoom Out" function from the toolbar.
3. Select "Area" in toolbar.
4. "Snapping" function for automatic snapping to edges and corners in photo is activated by default.
5. Click on the corner points of the area you want to measure in the photo.
6. Click on "Confirm" to finish defining the area or use "Enter" key from your keyboard. Alternatively you can also confirm by clicking with the right mouse button.
7. After a short calculation the measured results are automatically displayed.

Open plan in MEASURE mode



1. Double-click on a Plan in ORGANISER to open it in MEASURE mode. Alternatively you can also right click on the file and select "Open" in the context menu.
2. Double-click on a Place to add a 3D Image. Alternatively you can also use the "Add 3D Image" button from "Place content" window. Choose 3D Image and confirm with "Add". A plan can store up to 500 3D Images.
3. Press "Add Place" to create an additional Place on the Plan.
4. "Places" window contains all the Places with the latest added 3D Image shown as a thumbnail.
5. Select a place to see all the attached 3D Images in the "Place content" window.
6. Click on the 3 dots to show all images of the 3D Image.

3D View in MEASURE mode



1. If a 3D model of the room is available you can switch to 3D view in the Plan.
2. Use the left mouse button to rotate the 3D model of the room.

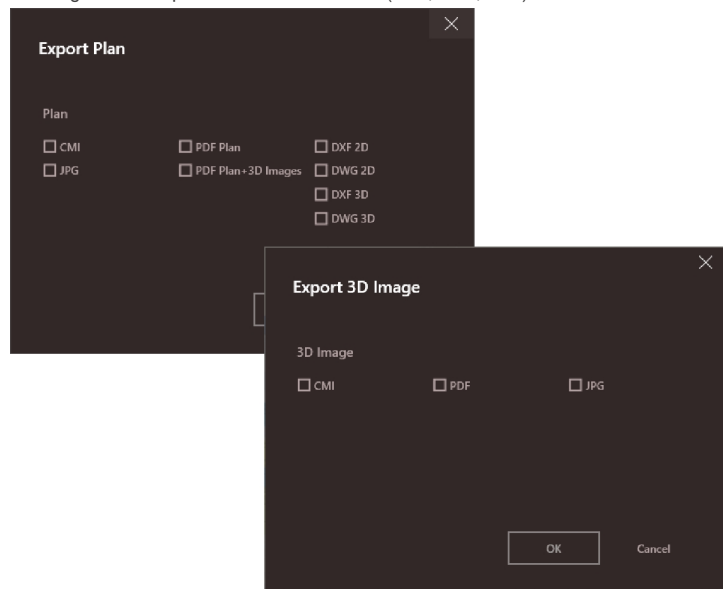
Export Files



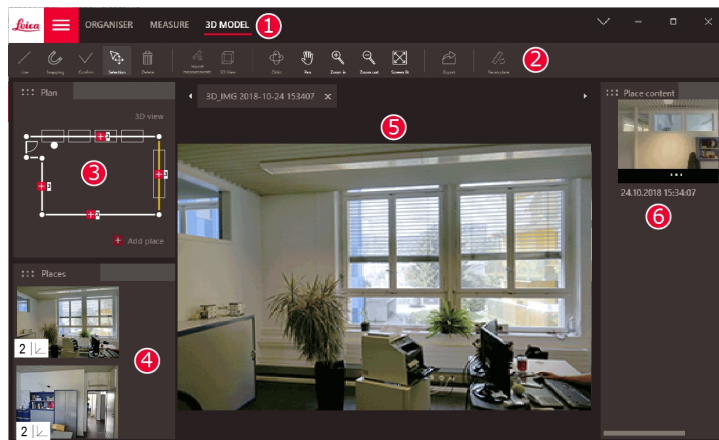
Export files with "Export" in the toolbar.

Plan can be exported in different formats (CMI, JPG, PDF Plan, PDF Plan+3D Images, DXF 2D, DWG 2D, DXF 3D, DWG 3D).

3D Image can be exported in different formats (CMI, PDF, JPG).



Overview



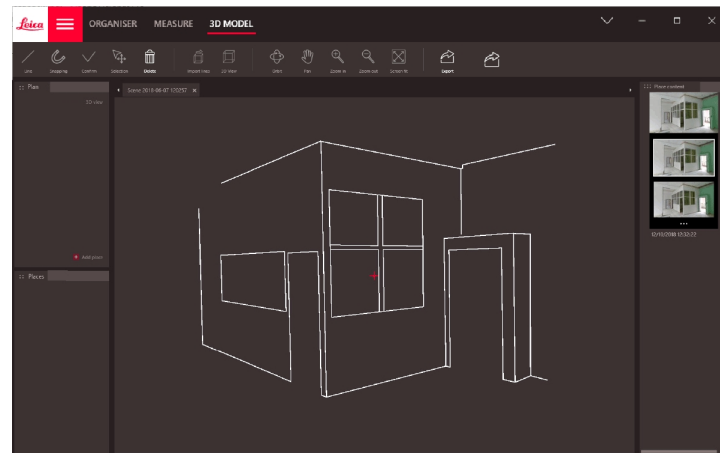
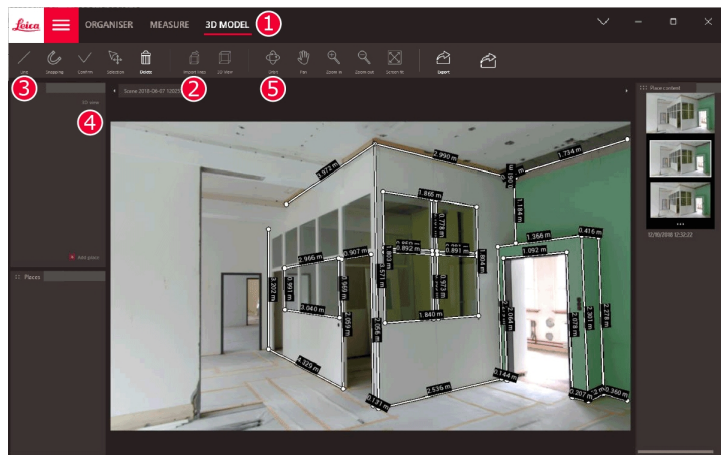
1. Main modules
2. **Toolbar**
3. Plan window
4. Places window
5. 3D Image window
6. Place content window

Toolbar



- Line:** draw modeling lines on the 3D Image.
- Snapping:** automatic snap to edges and corners in photo. Position the cursor over the 3D Image and hold it in position for 1 second. The cursor will automatically jump to the snapping position.
- Confirm:** finish a distance or area measurement in the photo. Alternatively you can also press the "Enter" button on your keyboard.
- Selection:** select point/line/area.
- Delete:** delete selected point/line/area. Alternatively you can also press the "Delete" button on your keyboard. "Delete" can be used also to remove selected places or scenes within a 3D Image.
- Import measurements:** transfer existing lines/areas from MEASURE to 3D MODEL mode.
- 3D View:** show modeled lines in a 3D view.
- Orbit:** 3D rotation. Alternatively you can also do a 3D rotation by clicking on the left mouse button.
- Pan:** move photo in all directions. Alternatively you can also use your middle or right mouse button for panning.
- Zoom In:** increase zoom factor. Alternatively you can also use your mouse wheel to adjust the zoom factor.
- Zoom Out:** decrease zoom factor. Alternatively you can also use your mouse wheel to adjust the zoom factor.
- Screen Fit:** adjust zoom factor to screen size.
- Export:** export Plan (CMI, JPG, PDF Plan, PDF Plan+3D Images, DXF 2D, DWG 2D, DXF 3D, DWG 3D) or 3D Image (CMI, PDF, JPG, DXF 3D, DWG 3D).
- Recalculate:** increase the accuracy of the existing measurements when the multi-shot 3D Image has been loaded.

Create 3D Image model

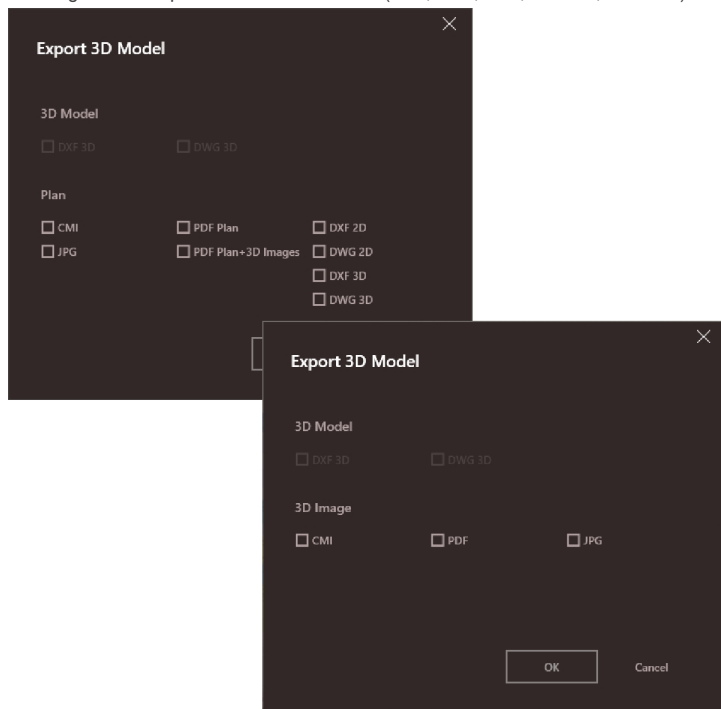


1. Switch to 3D MODEL tab when a 3D Image is opened in MEASURE.
2. Click the "Import measurements" button to transfer all the existing lines from MEASURE.
3. Select "Line" in toolbar to draw additional modeling lines.
4. Click "3D View" button to view all the modeled lines in 3D environment (see next graphic).
5. Use the "Orbit" function to rotate the 3D model.
6. Click "Export" to export the model to 3D DXF and DWG format.

Export Files

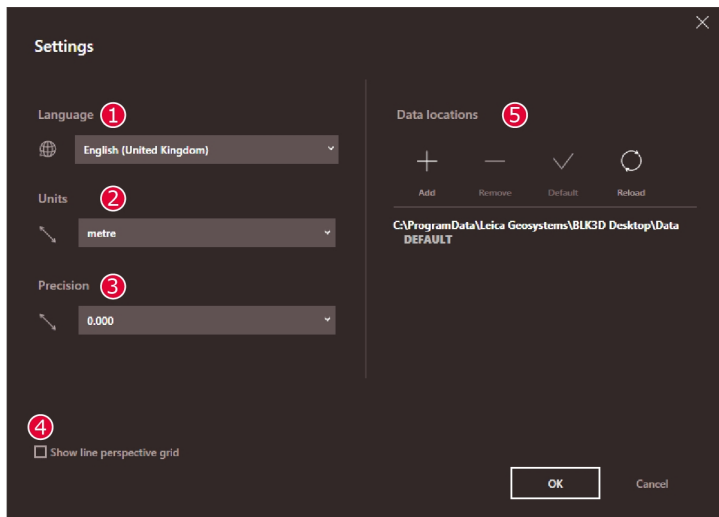
Plan can be exported in different formats (CMI, JPG, PDF Plan, PDF Plan+3D Images, DXF 3D, DWG 3D).

3D Image can be exported in different formats (CMI, PDF, JPG, DXF 3D, DWG 3D).



Settings

In the "Settings" dialog you can modify general settings of the BLK3D Desktop application.



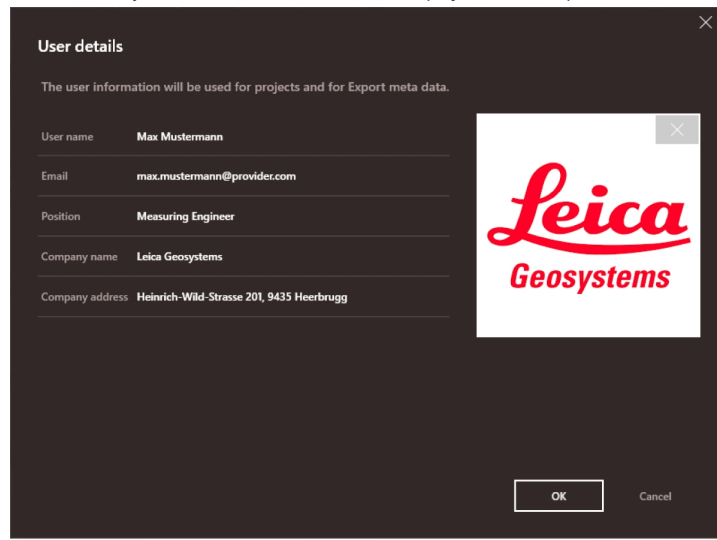
1. Software language
2. Unit for measured distances: Meter, Centimeter, Millimeter, Yard, Foot, Inch, Fractional Feet, Fractional Inch
3. Precision for measured distances: 0, 0.0, 0.00, 0.000, 0.0000
4. Show or hide line perspective grid.
5. Data Locations: Press "Add" or "Remove" to add/remove a new location where your project files are stored. Set your common data location by pressing "Default". You can also use a network or cloud drive. By pressing "Reload" the files from all data locations will be read by the BLK3D Desktop software.



You can also trigger the "Reload" function by clicking with the right mouse button in the "My projects" section.

User

On this screen you can enter data which is used for project and for export meta data.



Info

Open this menu to receive the following general information about your installed BLK3D Desktop application:

- **Help:** The BLK3D Desktop online help will be displayed in a browser window.
- **Update:** Current software version and renewal/expiration date of the used license is displayed.
- **License:** Link to CLM application to manage the Leica licenses.
- **About BLK3D Desktop:** General information (Software version, subscription type, copyright etc.).