

The operation, and interpretations made based on the use, of this product is the sole responsibility of the operator. Please make sure to read the full disclaimer in the user manual before operating the product.

Quick Guide for MALÅ Vision

Sign up

Visit malavision.guidelinegeo.com for both Sign Up and Log In.

Get started

When you have logged in you can create a new project or open an existing project.

User settings, account settings and subscription details are found in the main menu .

To create a new project, press *New project*. Start by naming your project. Then drag and drop your files or data folders directly on screen or use the “browse” function to upload files.

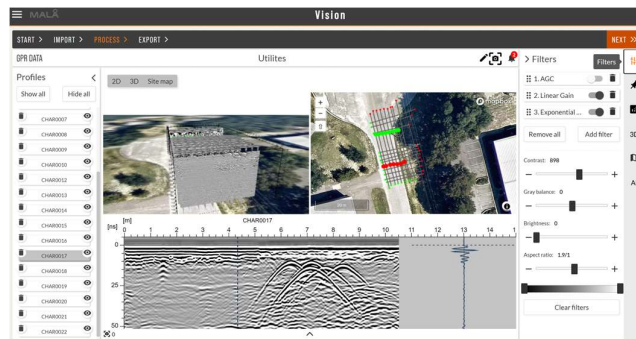
Note: If you drag and drop a complete folder, MALÅ Vision will automatically decide which files are needed (this also works with zipped folders).

Press the *Upload Files* button. The upload progress of each file can be viewed in the upload window in the Import tab.

To open an existing project, choose *Open Projects* from the start menu. All available projects are listed with name and size. You can also see the available disk space for your account and create folders to organize your different projects.

Main view

In the main view you can choose to display 2D, 3D and Site map at the same time or one or two of the options. On the left-hand side you see the list of imported profiles and on the right-hand side you have toolboxes for filters, interpretation, analysis, 3D settings, site map and AI. Both menus can be temporarily hidden using the arrow buttons.



Filters

In order to add a filter to your data, press the *Add filter* button in the Filter toolbox and select the suitable filters. Display settings, as contrast and aspect ratio can also be applied.

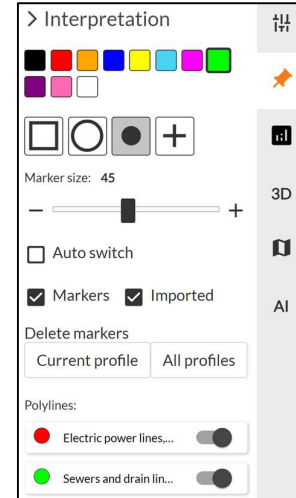
Interpretation

To add interpretations, in the form of markers, choose the Interpretation toolbox and select the size, type and color of your marker.

Left-click in your profile to add a marker. To move or delete a marker, right-click on the marker in the profile and select the appropriate action. To edit a marker, left-click on the marker and use the right-hand side toolbox menu to change the appearance of the marker.

Use the Auto switch option to toggle automatically to the next 2D radargram in your list after setting a marker.

You can delete added markers (interpreted or imported as mrk-files) in the current profile or in all profiles. The last set marker can be deleted by Ctrl+Z.



Analysis

In the Analysis tab you can open a trace view, flip profiles, toggle between time and depth for the vertical unit, set the velocity (manually or using pre-defined values), adjust the time zero and use the hyperbola fitting tool.

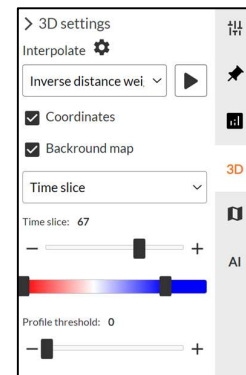
Hyperbolas can be added to the radargram for an easy velocity estimation. Press *Add hyperbola* and place the hyperbola in the radargram

3D settings

In the 3D settings you can interpolate your data and change the profile threshold.

To create a 3D volume, select your preferred interpolation scheme and press the play button to start the process.

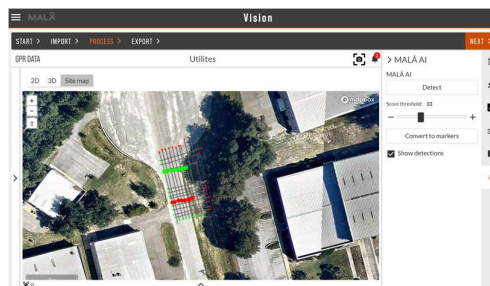
When it is finished, use the drop-down menu to view the interpolated data as either a 3D Cube, as time slices or as an Iso surface. Hide the interpolation by selecting *None*. Both the 3D cube and the Iso surface can be cropped in three orientations: t (time), x and y.



Site map

In the Site map your GPR profiles markers and polylines are displayed on either a map, a satellite image or with a local map layout.

In the Site map toolbox, you can edit the geometry of your collected profiles. The project markers and polylines are also visible on the map as well as any annotations collected in the field using the MALÅ Controller App.

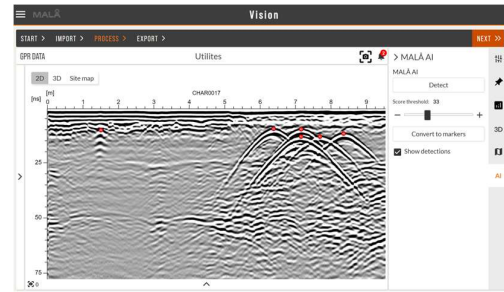


MALÅ AI


The MALÅ AI can be used as an efficient aid in identifying hyperbolas. This is done for the whole data set.

Press *Detect* and the identified hyperbolas will be marked with a red AI marker. Use the *Score threshold* slider to set sensitivity.

The AI detections can be converted to markers.



Screenshots and additional features

For both 2D, 3D and Sitemap a snapshot tool is available . When using this tool, the current workspace screen is saved. When changing to Snapshots or Images (in the dropdown menu above the 2D, 3D and Sitemap navigation buttons) more markers can be set, and a **Free draw** option is available, which can be used to enhance features in the data. The snapshots and project annotations are also easily available in the bottom pop-up menu underneath your workspace.



Report and Export

When you have finished your interpretation and created all snapshots, proceed to the Export tab.

With the *Create report* tool you can add both snapshots and text to a standardized report template, which are easily complied to a report for rapid sharing with your contractor.

The *Export data* option includes dynamic export of GPR files, Profile location, Markers, Polylines, Snapshots and Images. The markers can be exported as .txt, .csv, .dxf or as .kmz-files (used in e.g., Google Earth).

Use the + button to add additional exports items to the same zipped export folder.

The dynamic txt- and csv-export of Interpretations and option Markers contains information about the set markers. Press  to open the Export settings pop-up window. With  you can choose which parameters you wish to export; profile, type, symbol, longitude, latitude, depth (m), GPS-altitude (m), distance from start (m) and color. When clicking on each tab you can set a custom title and depending on the export type change parameters, e.g., transform map projection.

Export settings								
Profile	Type	Symbol	Trace	Sample	Coordinate 1	Coordinate 2	Depth	GPS-altitude
Preview (First 4 rows)								
p_r_0001	4	2	138	63	17.91611560	59.45831063	-0.27880224	15.38000000
p_r_0002	4	2	157	64	17.91610737	59.45829949	-0.28904688	15.38000000
p_r_0003	4	2	120	63	17.91610068	59.45828925	-0.27880224	15.39000000
p_r_0003	2	2	80	188	17.91606306	59.45828938	-1.51099389	15.33000000

CLOSE SAVE & CLOSE