JON DE TECH

NANOTECHNOLOGY IR SENSORS
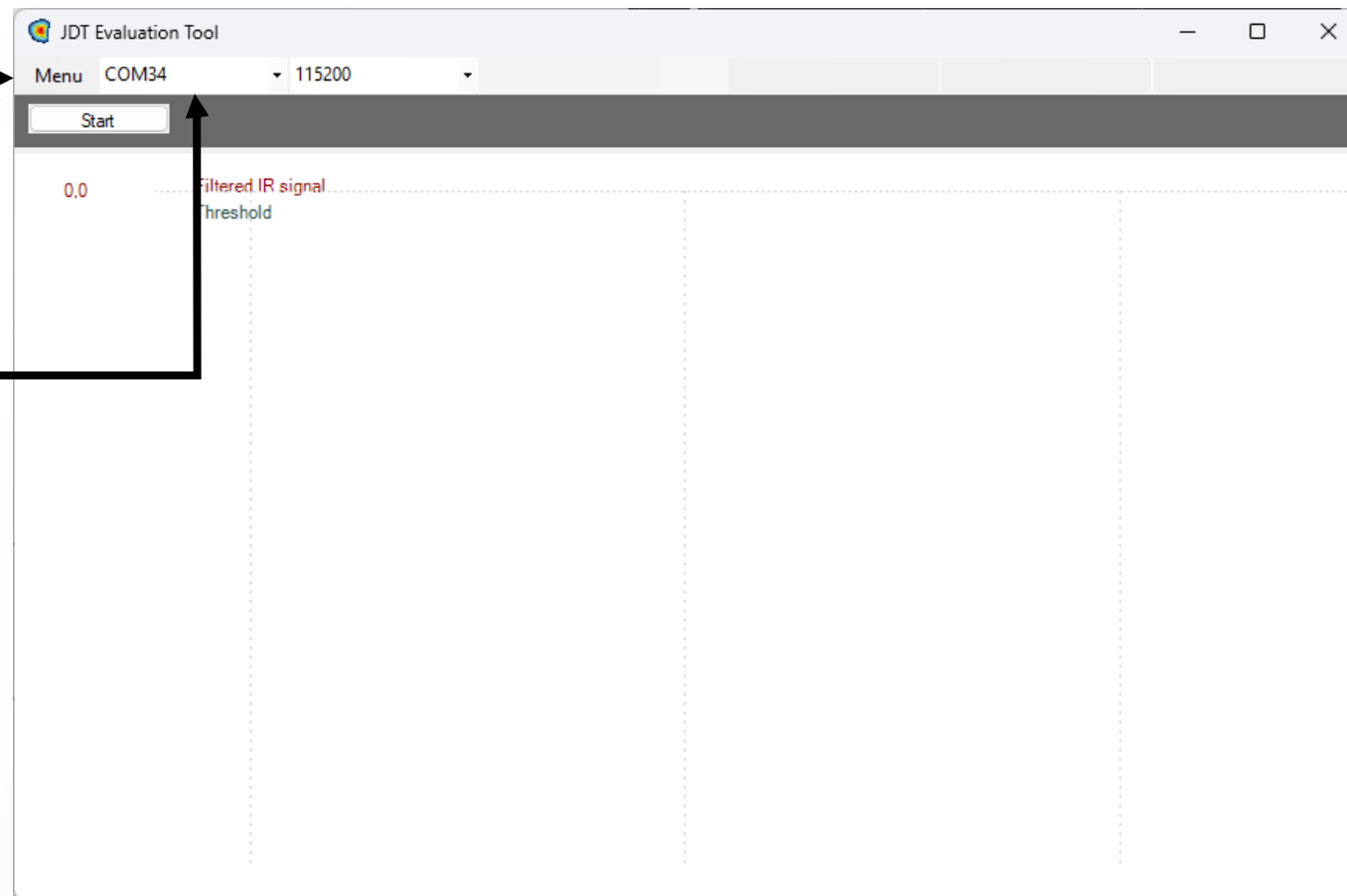
2024

Evaluation Tool

Start-up View
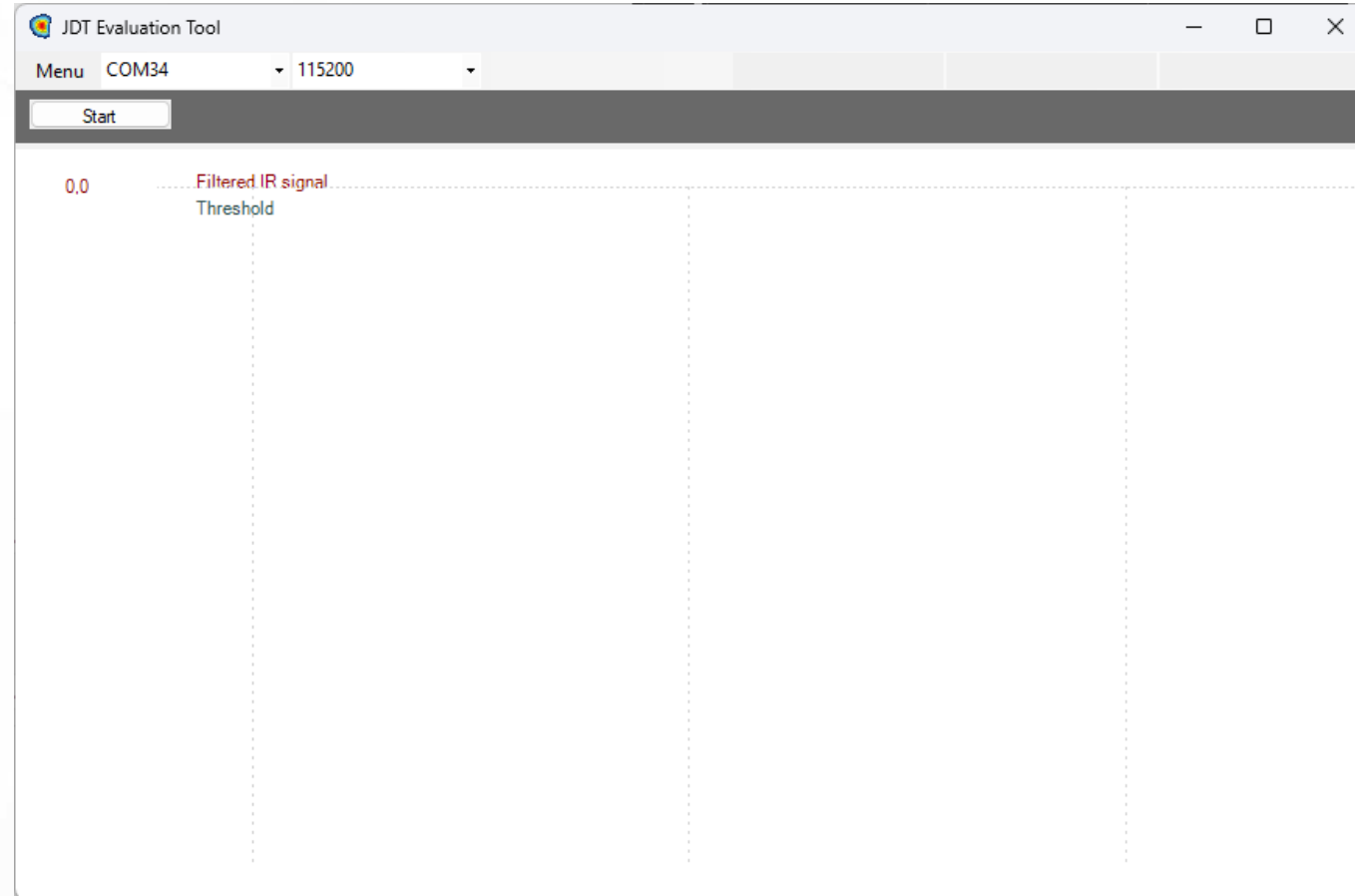
Menu Strip

Click to open menu

Select from available COM ports

Menu Strip – Menu Open

Tries to open selected COM port and read incoming data

Opens a save dialog where the user can save previously recorded data. (not available while reading data) Data stored includes all data from latest start to stop.

JDT Evaluation Tool

Menu COM34 115200

Start   F1
Options   F2
Save as...   Ctrl+S
Toggle User Presence   U
Firmware Update
Exit

**Opens a new window for changing options (not available while reading data)**

Toggle User Presence toggles the state of a boolean program variable that the user can use to keep track of human presence while recording data.

Update firmware of EVK board
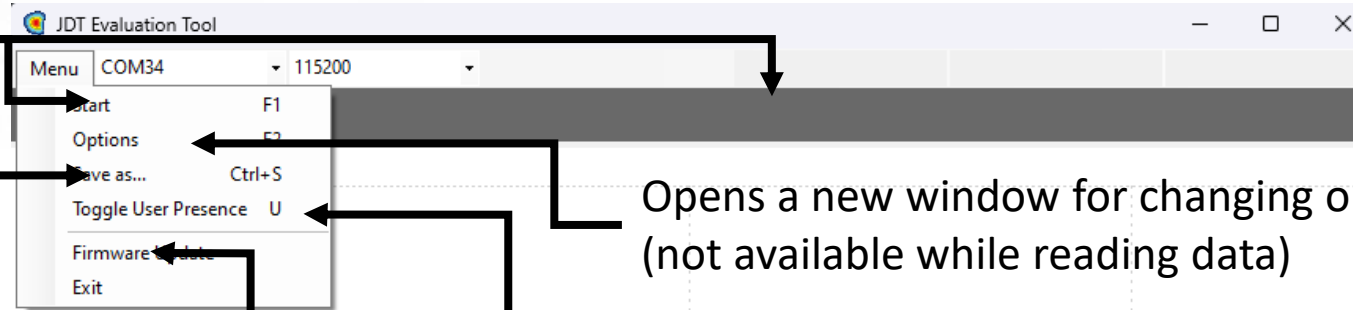
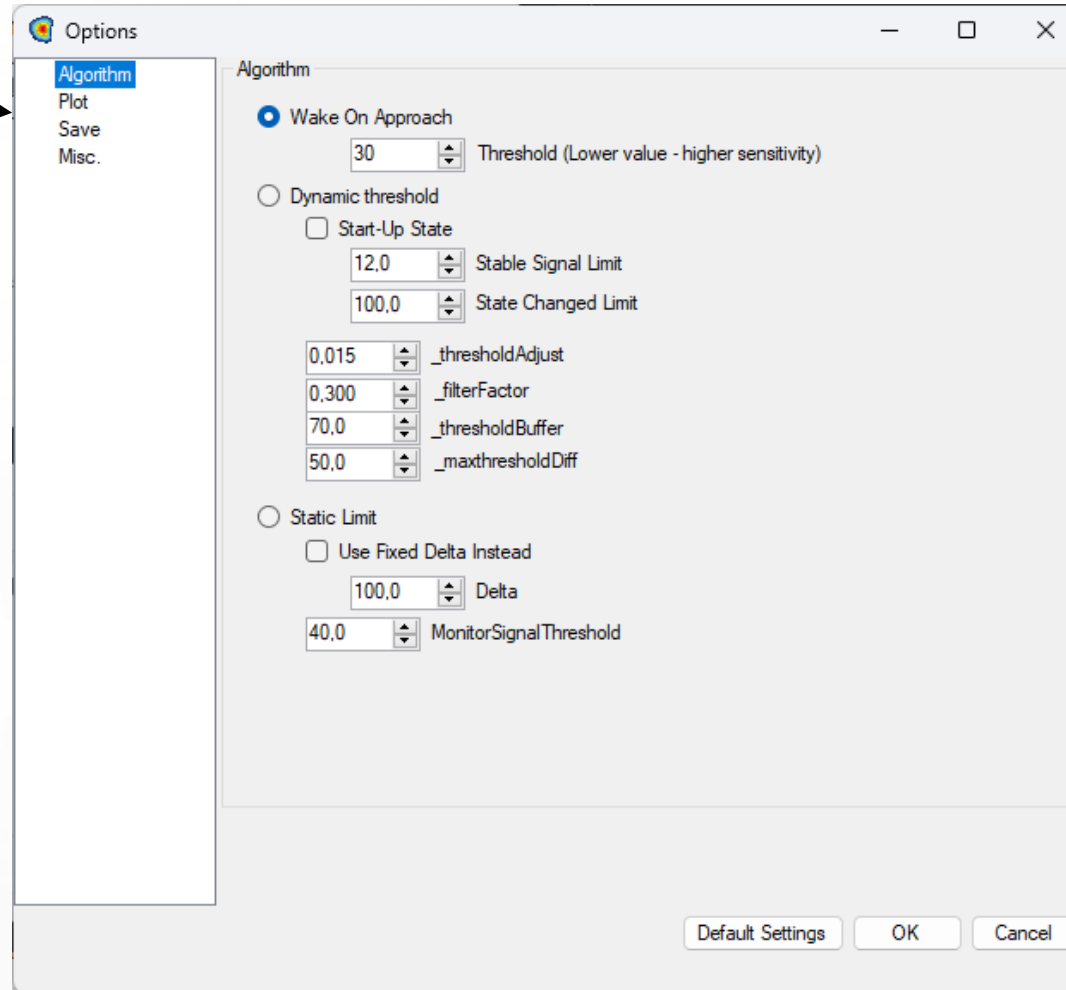# Plotting Panel

Start button
(Same as menu start)

Plotting Legend
Shows the color for
selected lines that
will be plotted
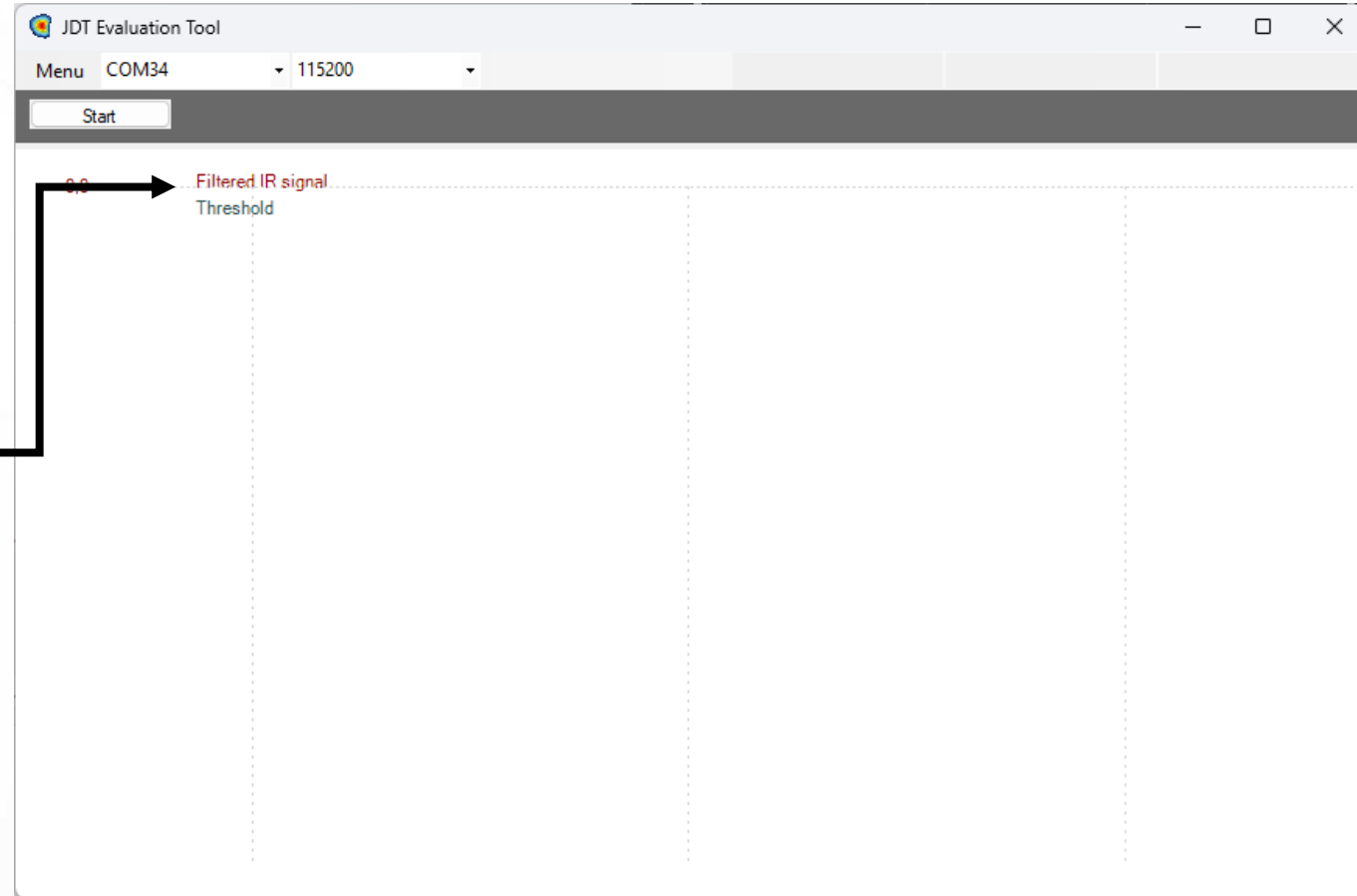
Options Window

4 selectable categories ———————→

1. Algorithm
2. Plot
3. Save
4. Misc.

Options Window- Algorithm

3 selectable presence algorithms
1. Wake on Approach, is the algorithm used for key lock presence detection (please use default settings for initial test = 30)
2. Dynamic threshold, will not be covered here but has a separate presentation
3. Static limit, Using a fixed threshold for determining presence
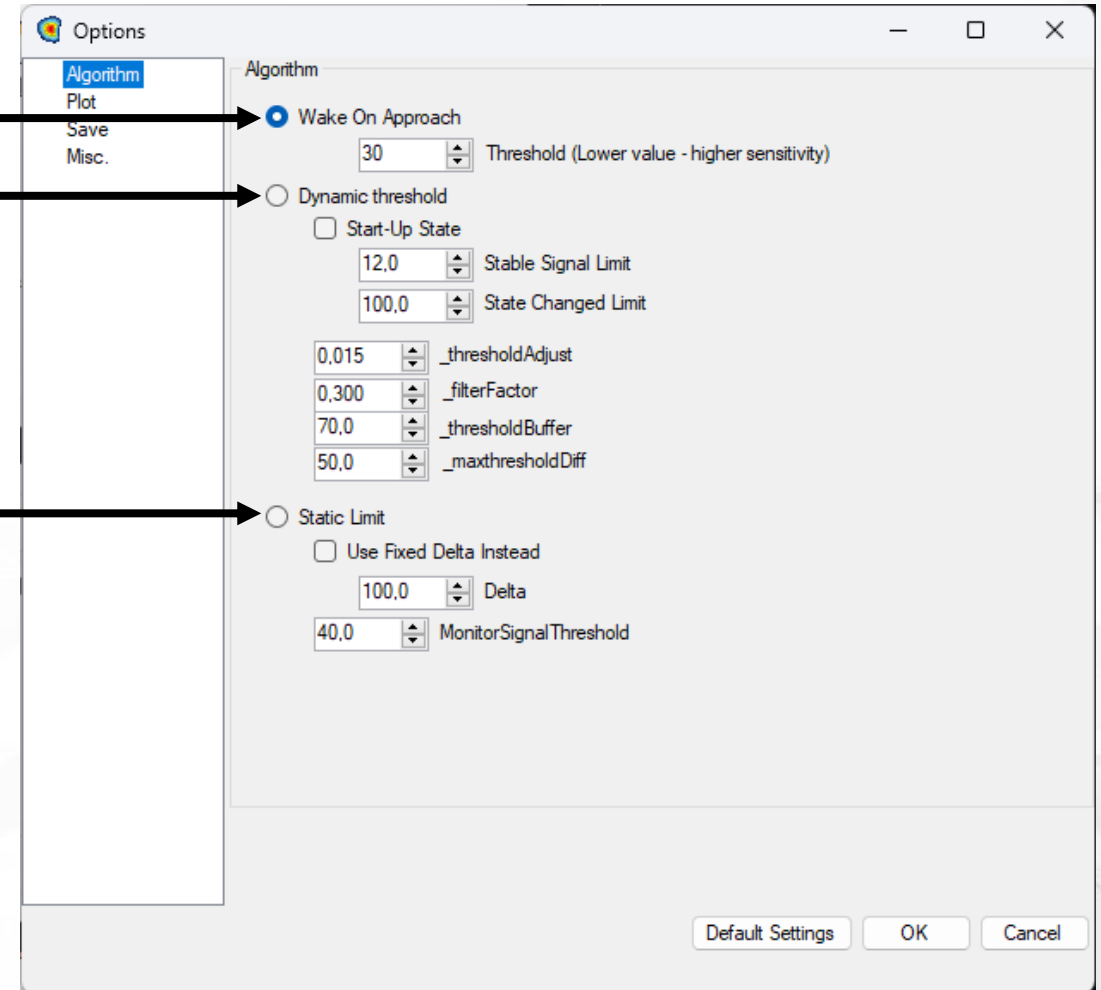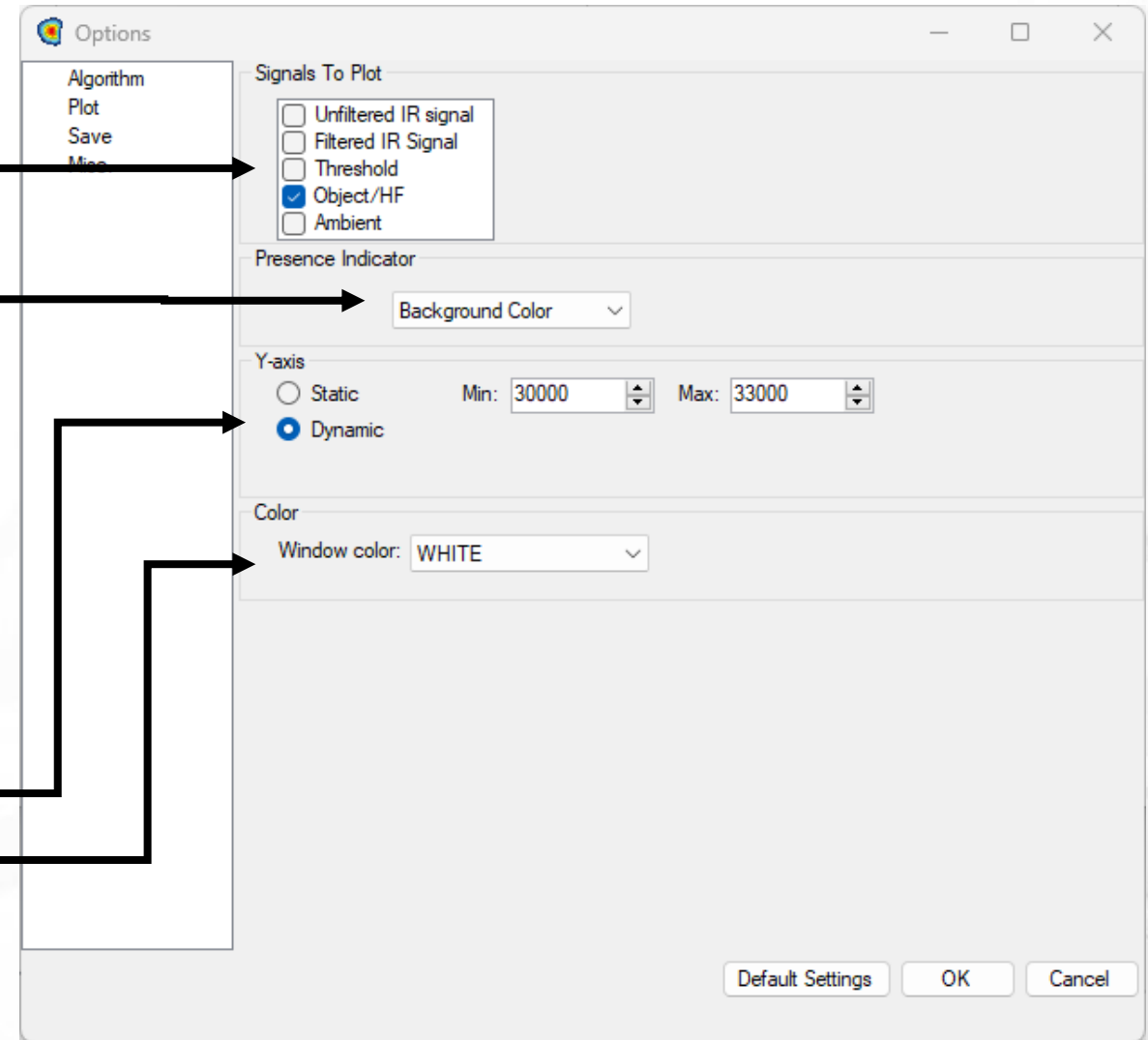
Options Window- Plot

Select what data should be plotted

Presence indicator determines how presence/absence should be presented to the user
- Background Color, red for presence, green for absence
- Top Bar Color, red for presence, green for absence
- Text, small text label on the top bar with the text presence/absence
- Monitor, turns on and off screen power when change in presence state

Y-axis determines how the axis should be calculated

Color sets the default background color for the plotting panel

Options

Algorithm
Plot
Save
Misc

Signals To Plot
- ☐ Unfiltered IR signal
- ☐ Filtered IR Signal
- ☐ Threshold
- ☑ Object/HF
- ☐ Ambient

Presence Indicator

Background Color ∨

Y-axis
- ○ Static   Min: 30000   Max: 33000
- ● Dynamic

Color

Window color: WHITE ∨

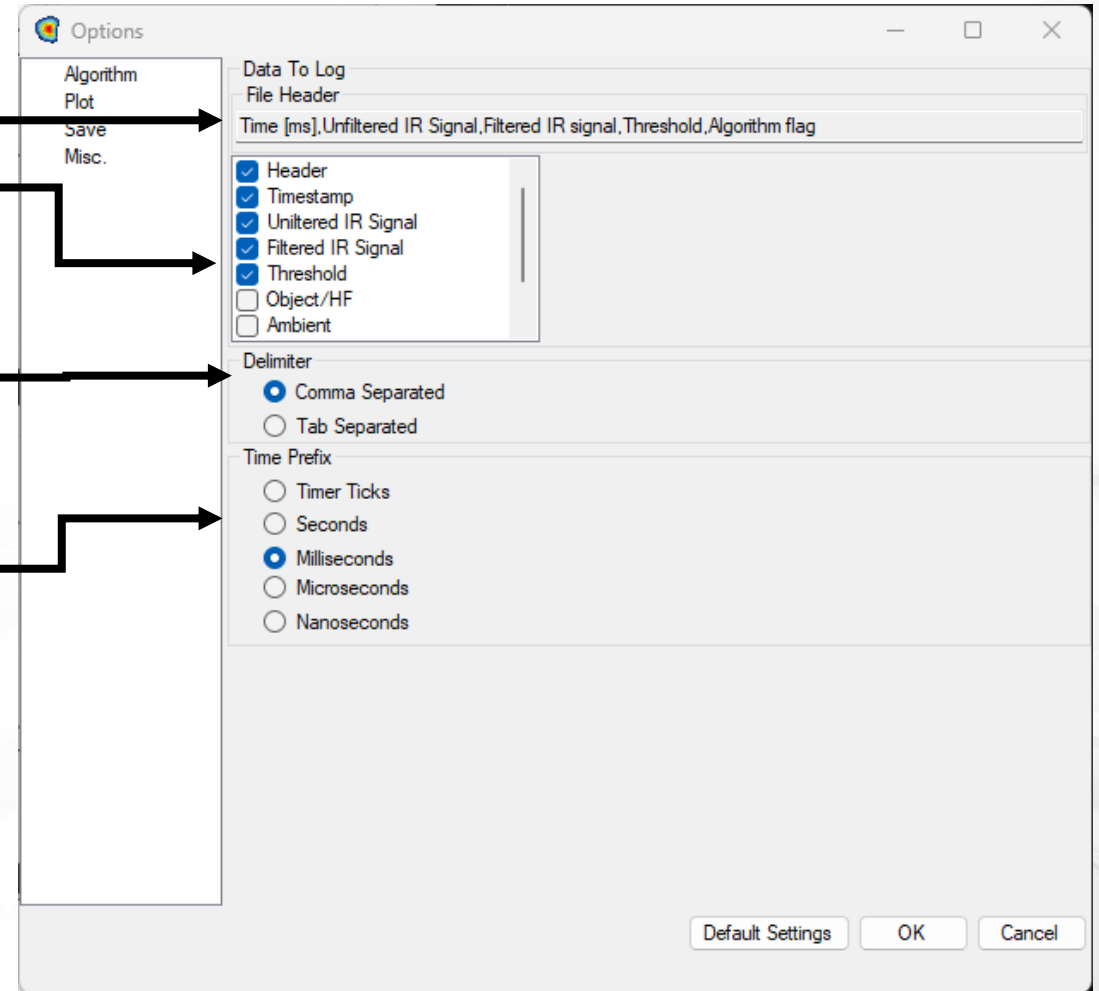Default Settings   OK   Cancel

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Options Window- Save

Example header for saved CSV file

Select what data should be stored to the CSV file

Set delimiter for the CSV file

Time scale if timestamps are to be saved
(accuracy depends on CPU model)

THANK YOU!

For further information, please visit our website
www.jondetech.se