

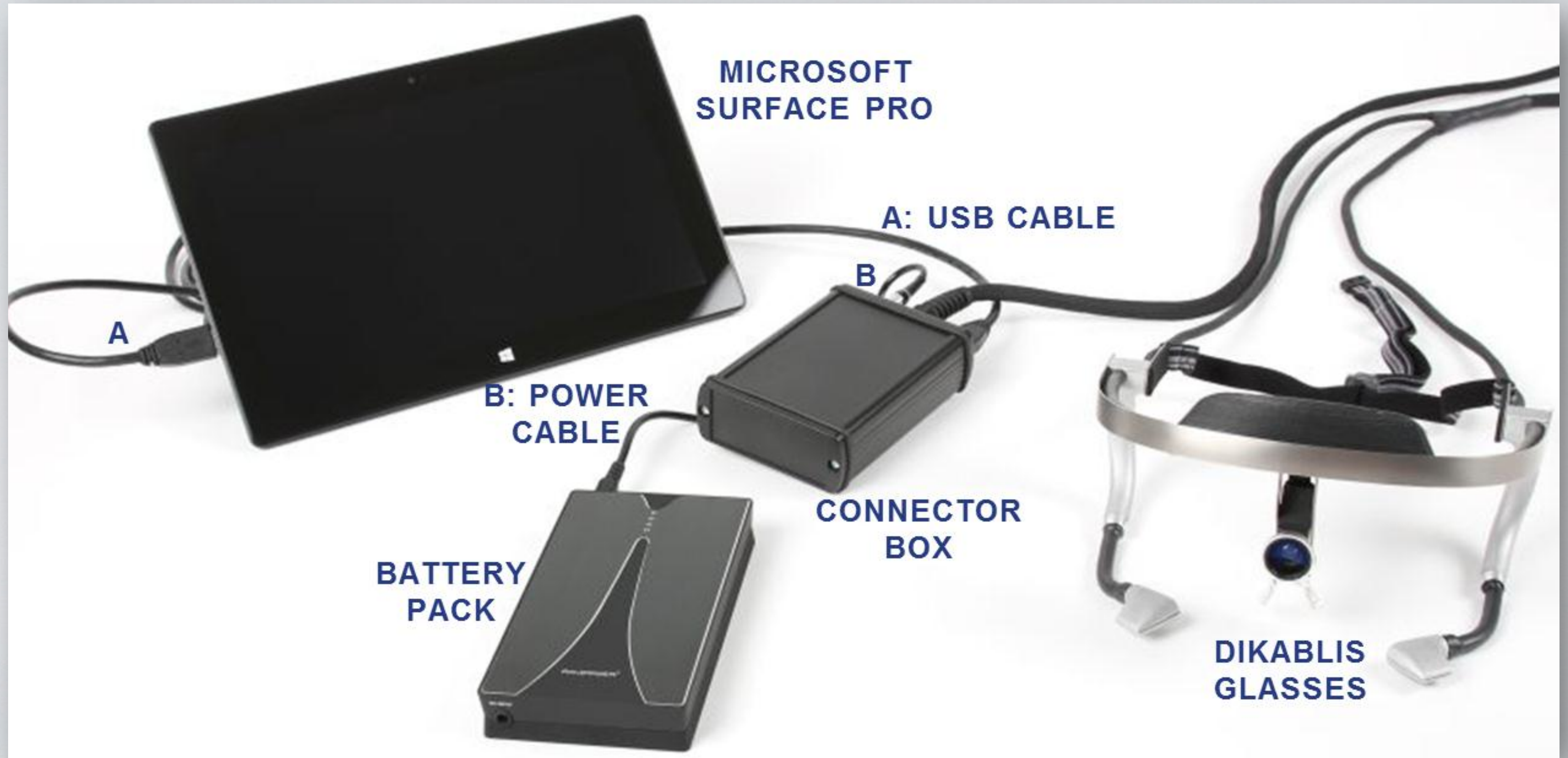
# DIKABLIS EYE-TRACKER & D-LAB SOFTWARE

# CONTENT

- Hardware
- Software
  - Minimal Steps
  - PLAN
  - MEASURE
  - ANALYSE

# HARDWARE

- Hardware
- Software
- Minimal Steps
- PLAN
- MEASURE
- ANALYSE



# SOFTWARE

- Hardware
- Software
- Minimal Steps
- PLAN
- MEASURE
- ANALYSE

- Uses a modular approach
- PLAN: Manage setup and define tasks
- MEASURE: Record data and mark tasks
- ANALYSE: Review recording and calculate information

# MINIMAL STEPS

- Hardware
- Software
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- PLAN
- MEASURE
- ANALYSE

The image shows two overlapping screenshots of the D-Lab 3.0 software interface. The top-left screenshot shows the 'File' menu with the 'New' button circled in black. A black arrow points from this 'New' button down to the first step of the instructions. The bottom-right screenshot shows the 'Study Explorer' window with a table of recordings. A black arrow points from the 'Add User' icon (a person with a plus sign) in the top toolbar of the Study Explorer window down to the second step of the instructions.

1. Create a new study  
2. Add a new user

# MINIMAL STEPS

- Hardware
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The screenshot shows the software interface with several panels. The 'Visualizations' toolbar at the top contains icons for Eye Tracker, Visualization, Line Chart, List, Peak Gauge, Point Chart, Relay, Round Gauge, Semantic Glance, Semicircle Gauge, State Diagram, Step Line Chart, Value, and Keyboard Shortcuts. The 'Study Explorer' panel on the left shows a tree view with 'PhilTest' and an 'Eye Tracker' tab. The 'Task Definitions' panel below it shows a table with columns for Name, Network Name, and Configuration. The 'Recording Device' panel at the bottom shows a table with columns for Name, Status, Type, and Visualizations. The 'Dikablis Professional' entry is highlighted with a yellow background and circled in black. Arrows point from the 'Eye Tracker' icon in the toolbar to the 'Eye Tracker' tab in the Study Explorer, and from the circled 'Dikablis Professional' entry to the 'Eye Tracker' tab.

3. Open Eye-Tracker Visualisation

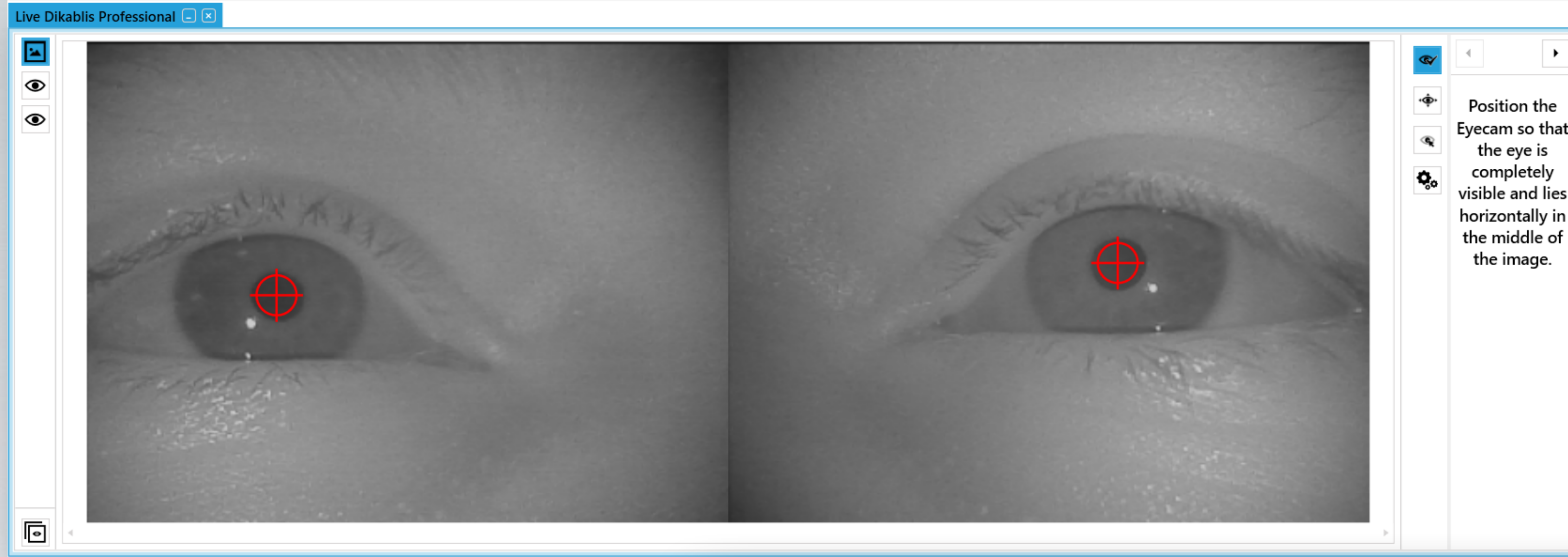
4. Drag Dikablis Tracker to the Eye-Tracker Area

5. Start Calibration

The screenshot shows the 'Live Dikablis Professional' window. It features a video feed of a person's hands using a laptop. A red crosshair is overlaid on the keyboard. On the left side of the window, there are three eye icons. At the bottom, a green status bar displays the text 'Pupil detected!'. Hand-drawn circles and arrows highlight the eye icons and the 'Pupil detected!' message.

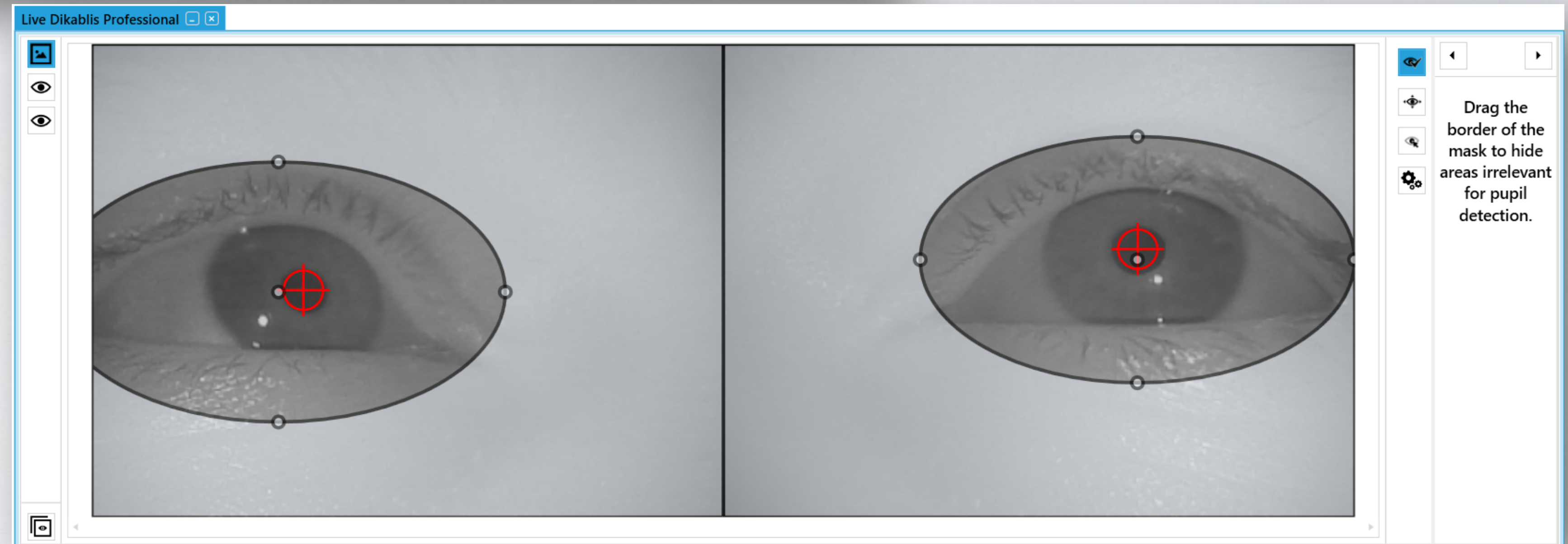
# MINIMAL STEPS

- Hardware
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## 6. Adjust Eye Camera

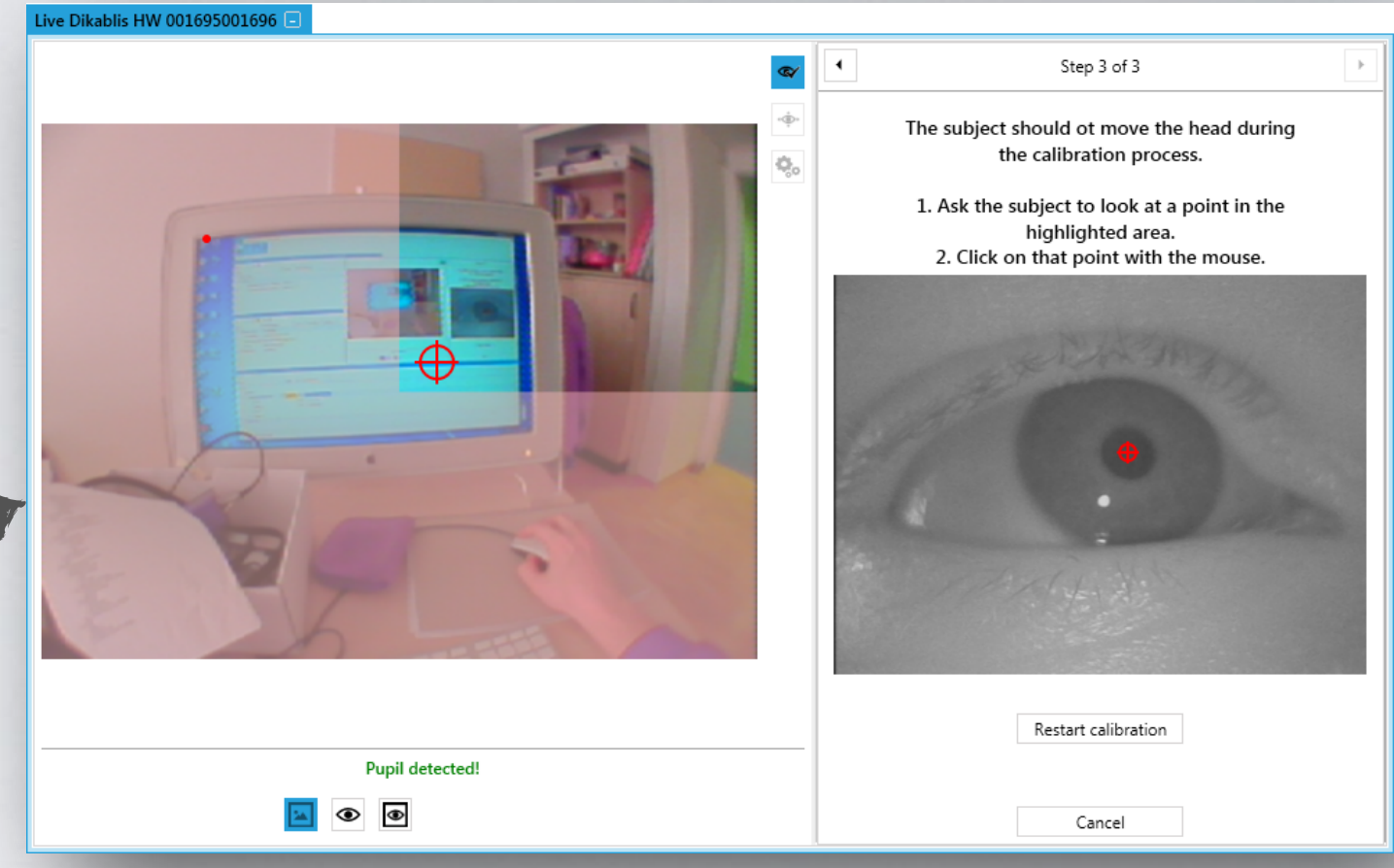
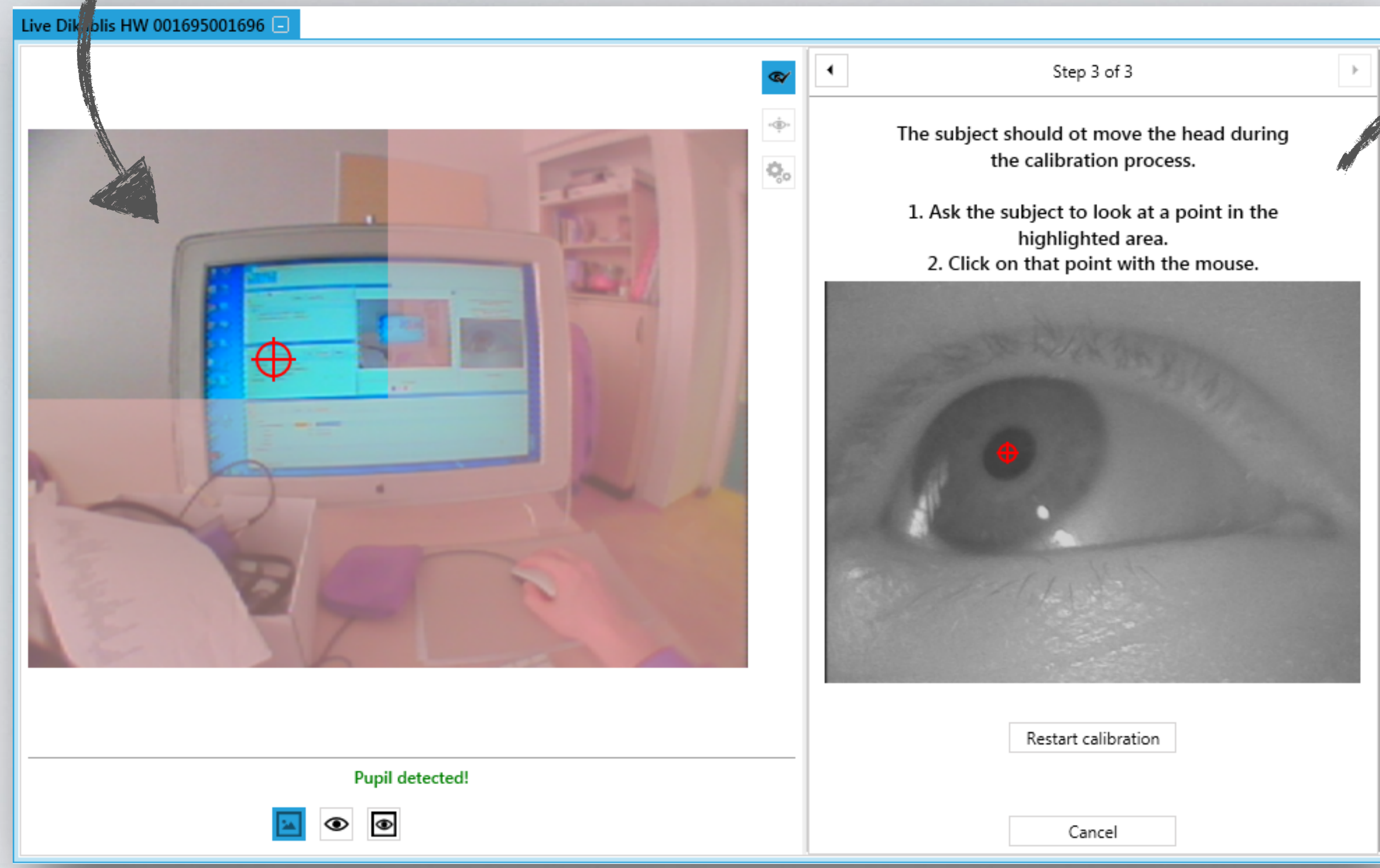
## 7. Mask Eye Area



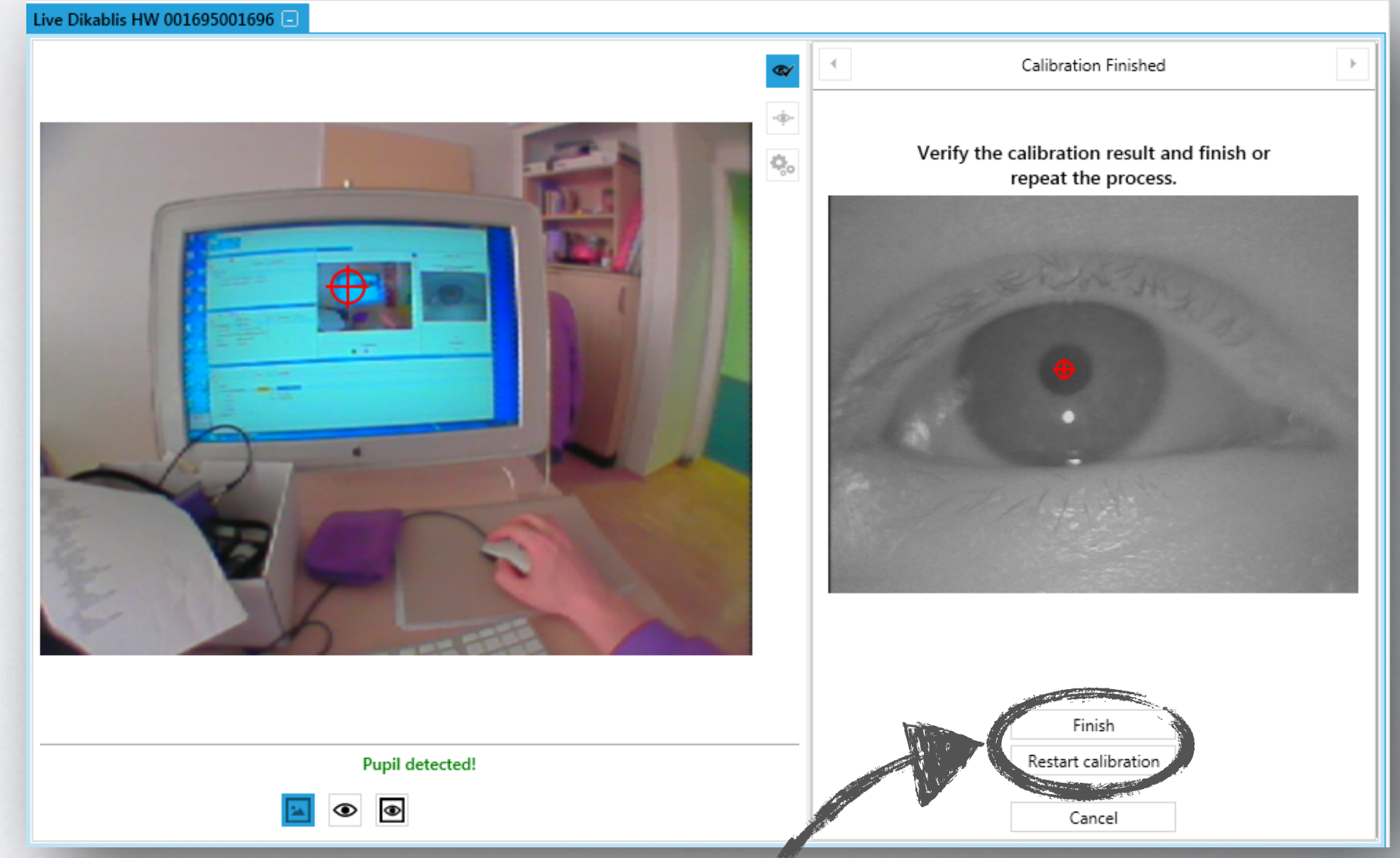
# MINIMAL STEPS

- Hardware
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8. Mark in each quarter of the screen where the user is looking



**IMPORTANT:** The head should be as still as possible to provide an accurate calibration!



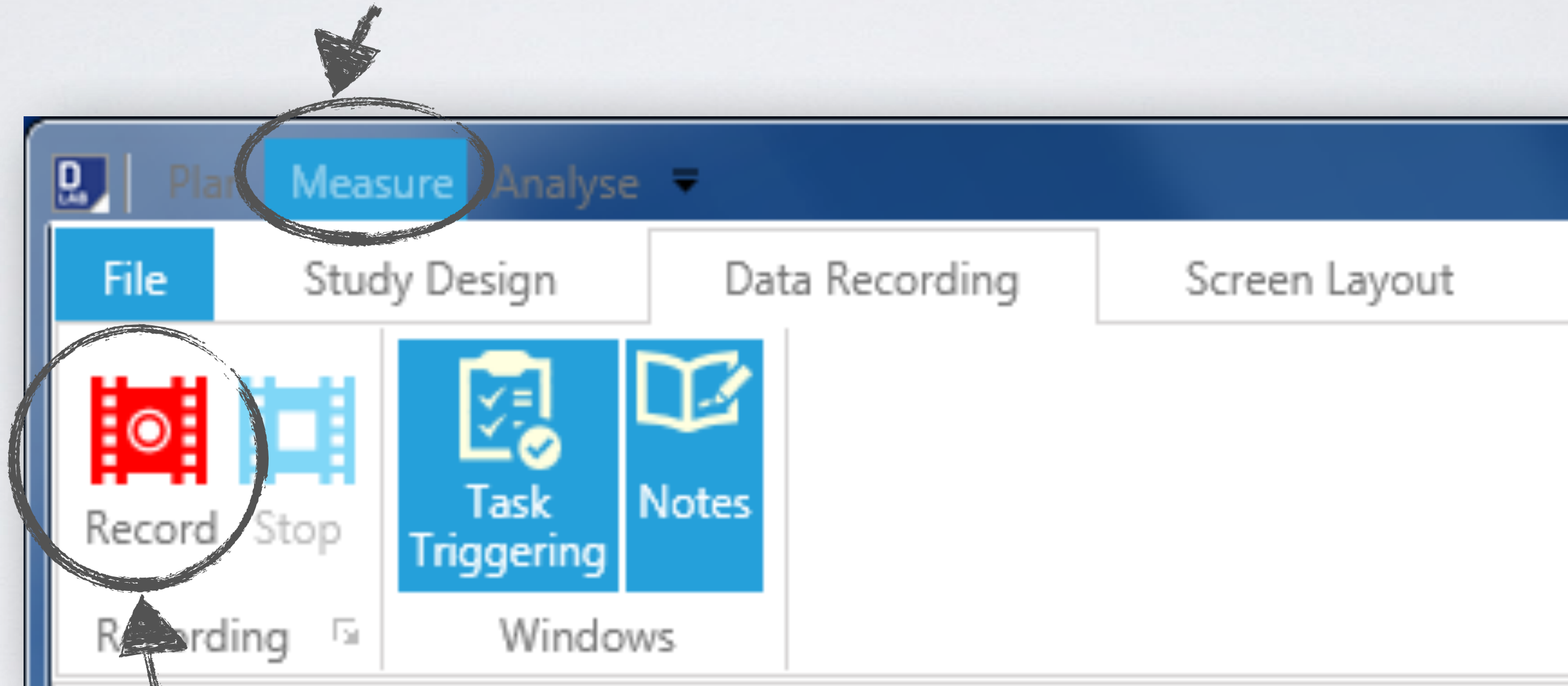
9. Finish calibration



# MINIMAL STEPS

- Hardware
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10. Switch to the *Measure* tab

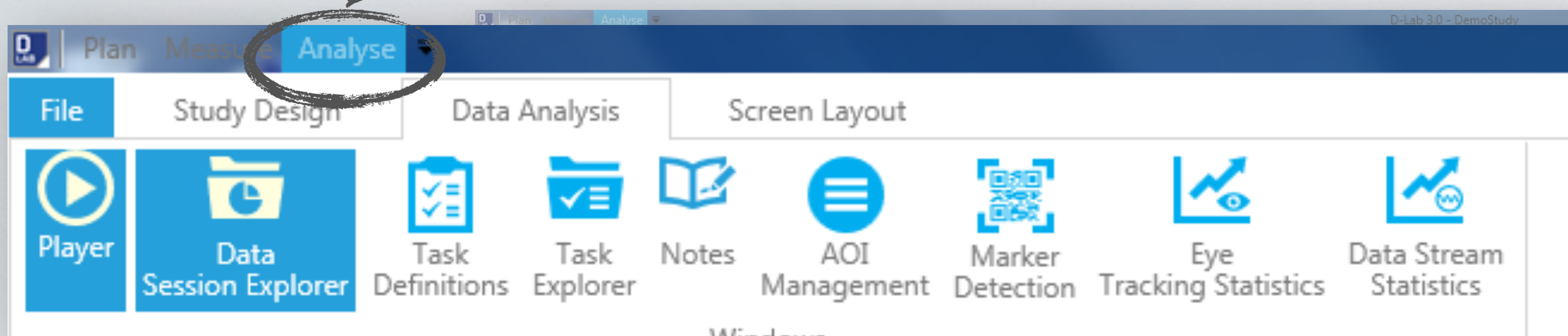


11. Start recording

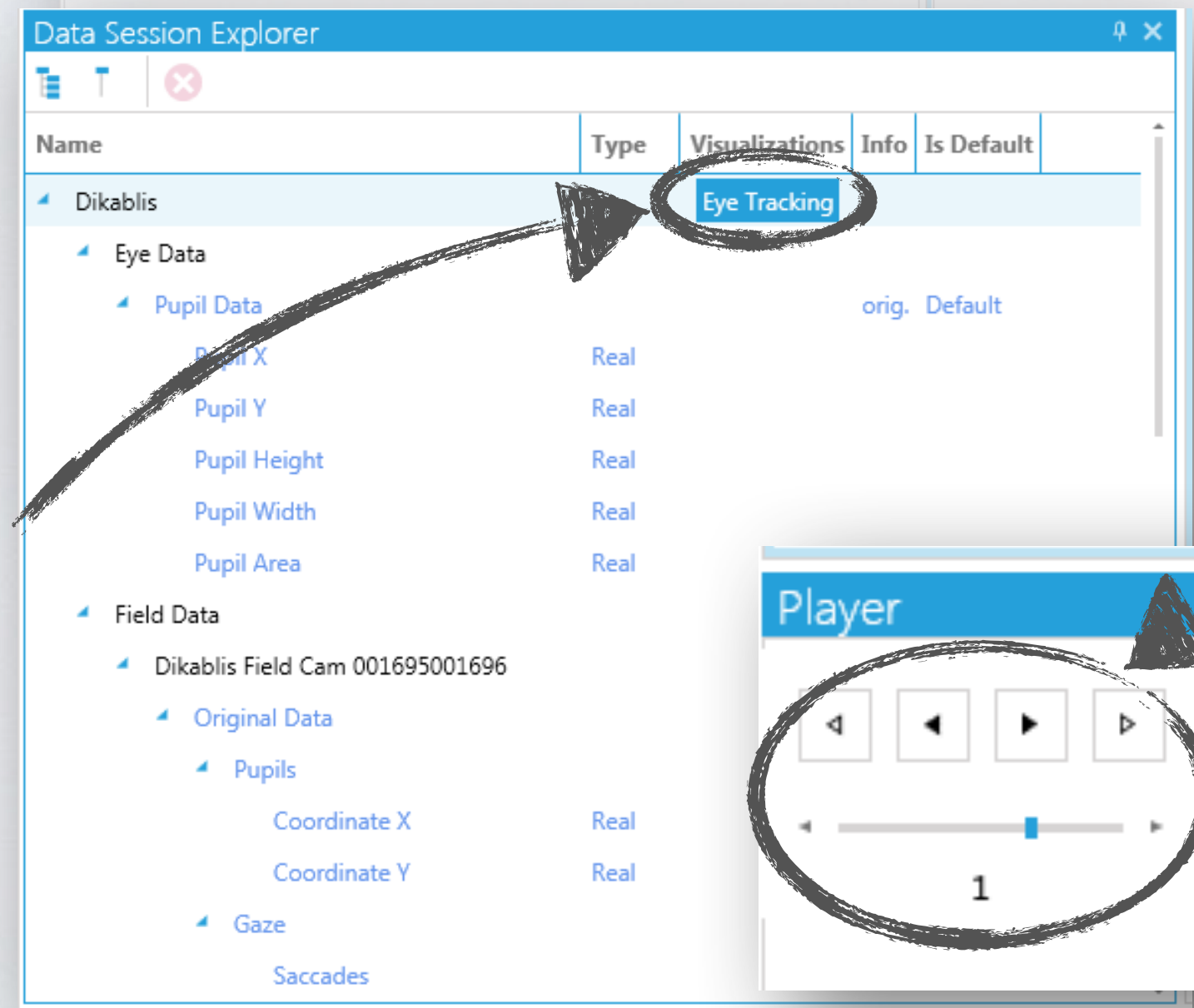
# MINIMAL STEPS

- Hardware
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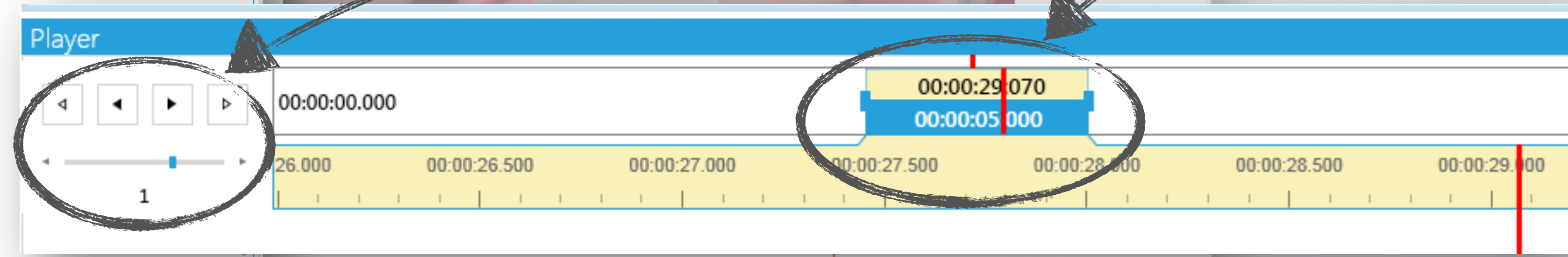
12. Switch to the *Analyse* tab



13. Open Eye-Tracker visualisation



14. Navigate recording using the controls and timeline



# MINIMAL STEPS

- Hardware
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The screenshot shows the 'Export data for Study PhilTest' dialog box. The interface is divided into several sections: 'Subjects', 'Tasks', 'Recorded Data', and 'Special Exports'. The 'Subjects' section shows a tree view with 'PhilTest' expanded to show '1. Recording: 10.10.201' and '2. Recording: 10.10.2014'. The 'Tasks' section has 'All Recording' selected. The 'Recorded Data' section has 'Eye Tracking Video' selected, with 'Blending Mode' also selected. The 'Special Exports' section has 'All Frequencies. No sampling' selected. The 'Export Configuration Name' field contains 'test'. The 'Export' button is at the bottom right. Hand-drawn annotations include circles around the 'File' menu, 'Export' button, '1. Recording: 10.10.201', 'Eye Tracking Video', and the final 'Export' button. Arrows indicate the flow from the 'File' menu to 'Export', from 'Export' to the subject selection, from the subject selection to the 'Eye Tracking Video' option, and from the 'Eye Tracking Video' option to the final 'Export' button.

15. Export video to C:/data

# PLAN

- Hardware
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The main software interface is shown in the background. It includes a menu bar with 'File', 'Study Design', and 'Screen Layout'. Below the menu are three main toolbars: 'Study Explorer', 'Task Definitions', and 'Recording Devices'. The 'Study Explorer' toolbar shows a folder icon, a person icon, and a close icon. The 'Task Definitions' toolbar shows a list icon, a task icon, a group icon, and a close icon. The 'Recording Devices' toolbar shows a list icon and a plus icon. The main area is divided into several panes: 'Study Explorer', 'Task Definitions', and 'Recording Devices'. The 'Study Explorer' pane shows a tree view with 'DemoStudy' and 'Phil' under it. The 'Task Definitions' pane shows a table of tasks. The 'Recording Devices' pane shows a tree view of recording devices.

Name	Duration	Recorded Data
DemoStudy		
Phil		
1. Recording: 4/30/2014 12:48:04 PM	00:00:15.380	
2. Recording: 5/2/2014 3:21:33 PM	00:00:17.365	

Add new task

Define marking behavior

Name	Network Name	Count	Same Root	Diff Root
Regular Mouse	Regular Mouse	0	<input type="checkbox"/>	<input type="checkbox"/>
Click	Regular Mouse\Click	0		
Shut down Win8	Regular Mouse\Shut down Win8	0		
Open Folder	Regular Mouse\Open Folder	0		
Head Mouse	Head Mouse	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Click	Head Mouse\Click	0		
Shut down Win8	Head Mouse\Shut down Win8	0		
Open Folder	Head Mouse\Open Folder	0		

Add Network Tasks Configuration

Server Configuration

Name	IP Address	Port
<input type="text"/>	137.226.56.137	9000

OK Cancel

- Same Root:
- New active task in a group deactivates all other active tasks in this group
- Diff Root:
- New active task in another group deactivates all tasks in this group

# MEASURE

- Hardware
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Start recording

**Data Recording**

Recorded 00:00:05.051  
Started at 15:52:12

**Notes**

Your Note ...

HeadMouse is great :)

Time Note

**Notes**

Or not

00:02:11.489 HeadMouse is great :)

Time Note

**Task Triggering**

Regular Mouse

Head Mouse

Open Folder

Shut down Win8

Click

**Task Triggering**

Regular Mouse

Head Mouse

Click

**Task Triggering**

Regular Mouse

Head Mouse

Open Folder

Shut down Win8

Click

# MEASURE

- Hardware
- Software
- Minimal Steps
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Marker Origin

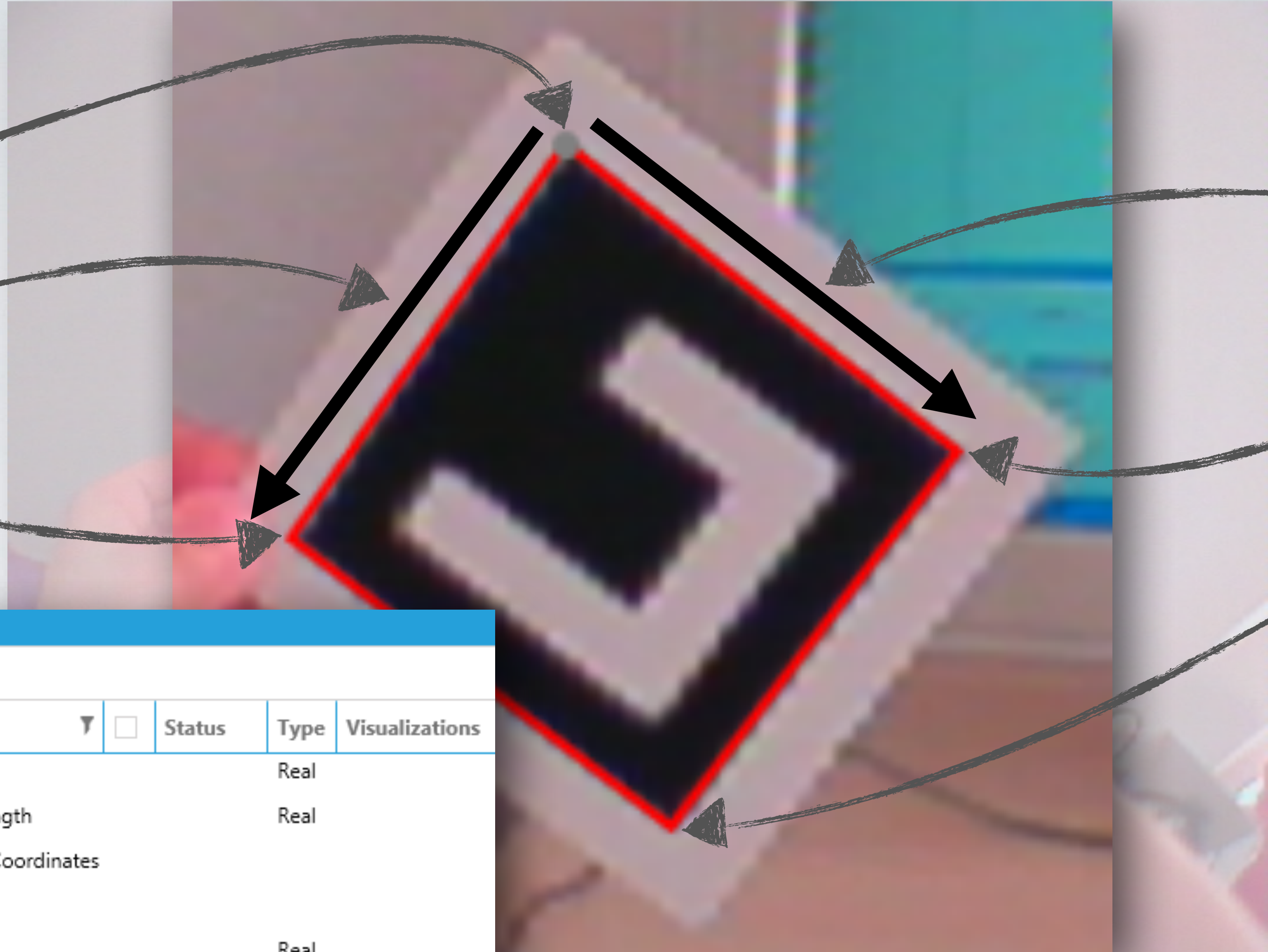
y-Axis

(0,1)

x-Axis

(1,0)

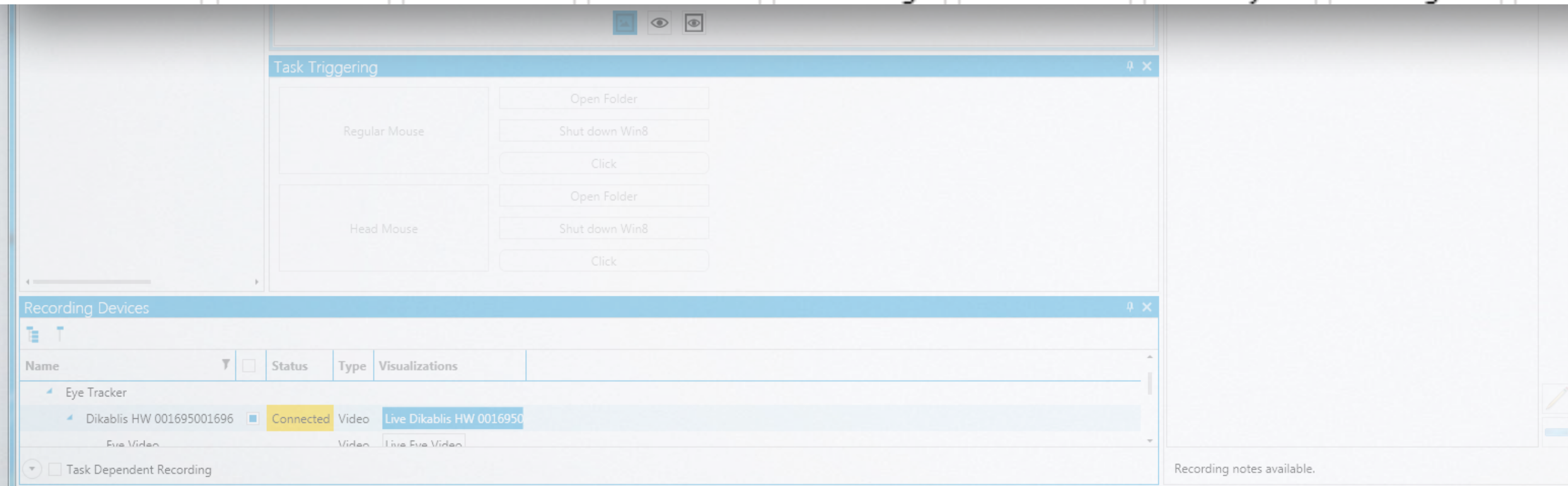
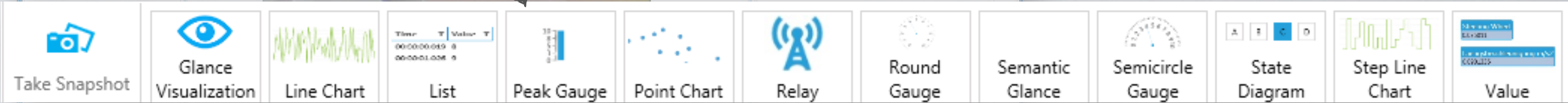
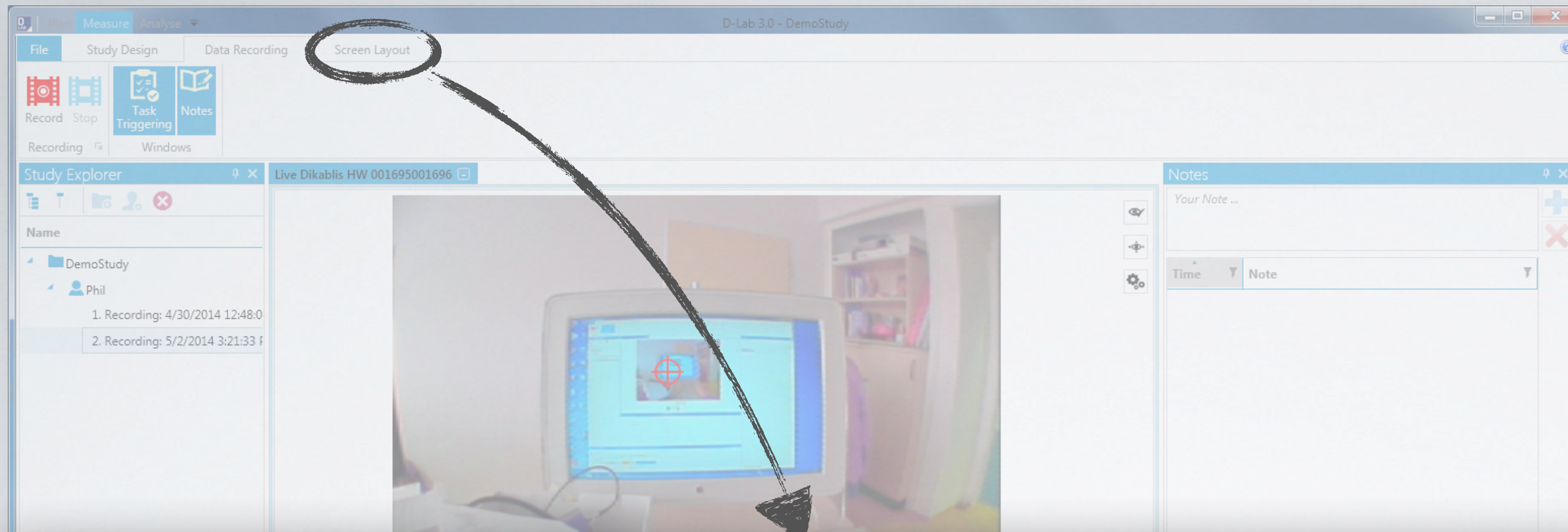
(1,1)



Recording Devices				
Name	<input type="checkbox"/>	Status	Type	Visualizations
Saccades			Real	
Saccades Length			Real	
▸ Gaze in Marker Coordinates				
▸ Santiago				
Pupil X			Real	
Pupil Y			Real	Line Chart

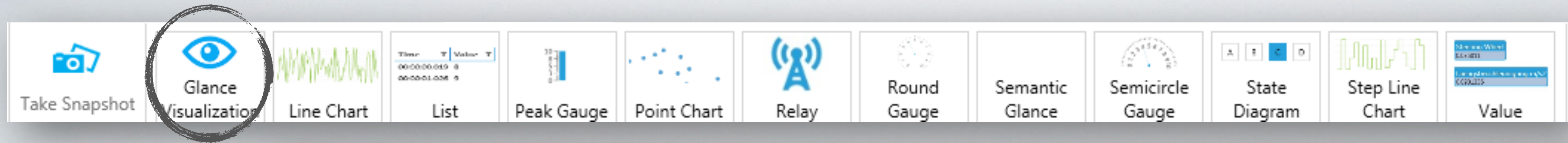
# MEASURE

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# MEASURE

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Dikablis

Eye Tracker used: Dikablis

Gaze Path  
Heat Map  
 Cumulative  
 Time Based  
Time until red: 800  
Spot Radius: 6  
Shadow Map  
Bee Swarm  
Markers  
 Oslo (8036)  
 Santiago (1646)  
Eye Tracker Name  
Original

Name	Subject	Remove	Displayed	Color
1. Recording: 5/16/2014 10:16:12 AM	Phil Clone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

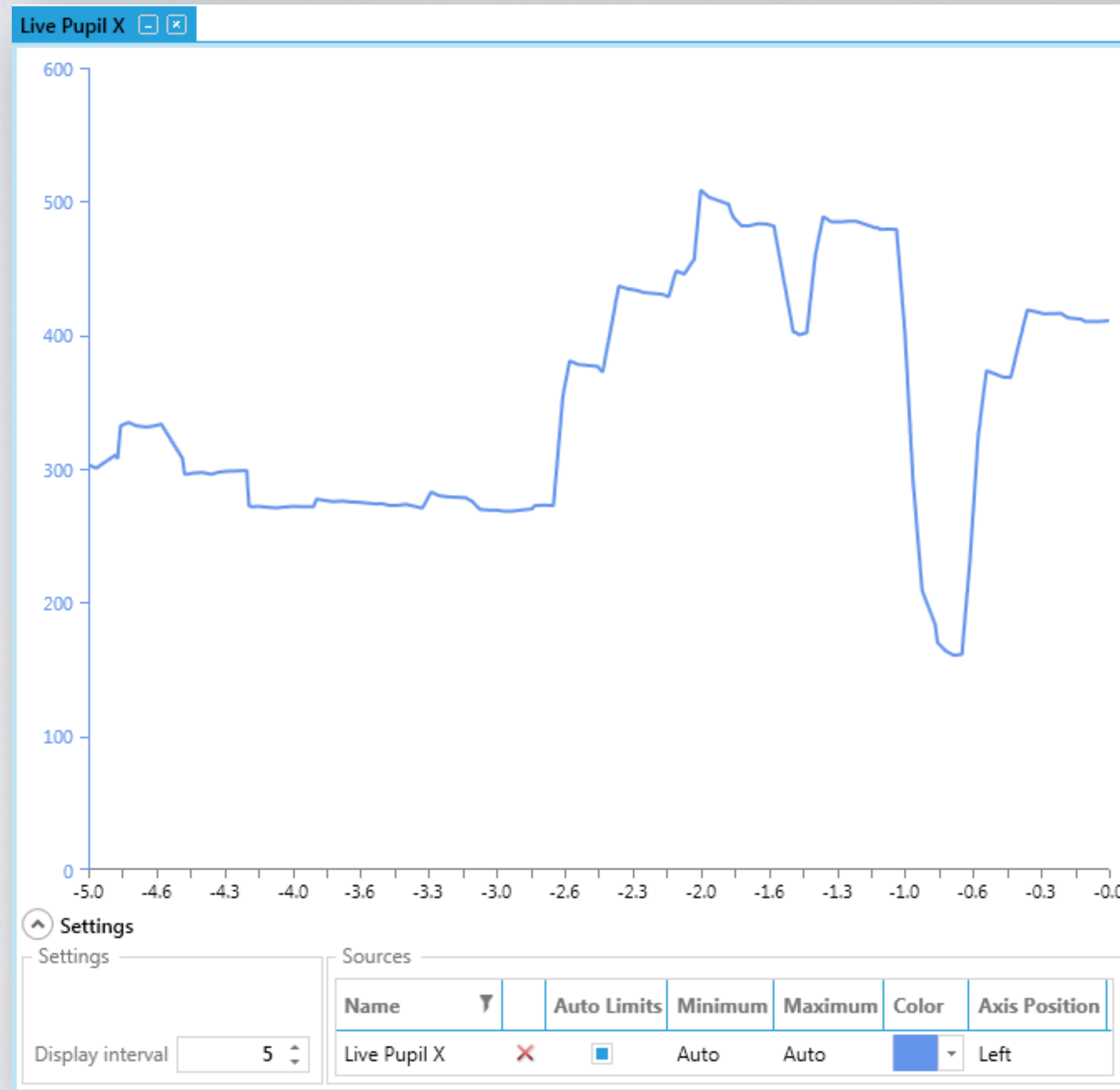
Select the markers that should be used to ,correct' the gaze visualization



# MEASURE

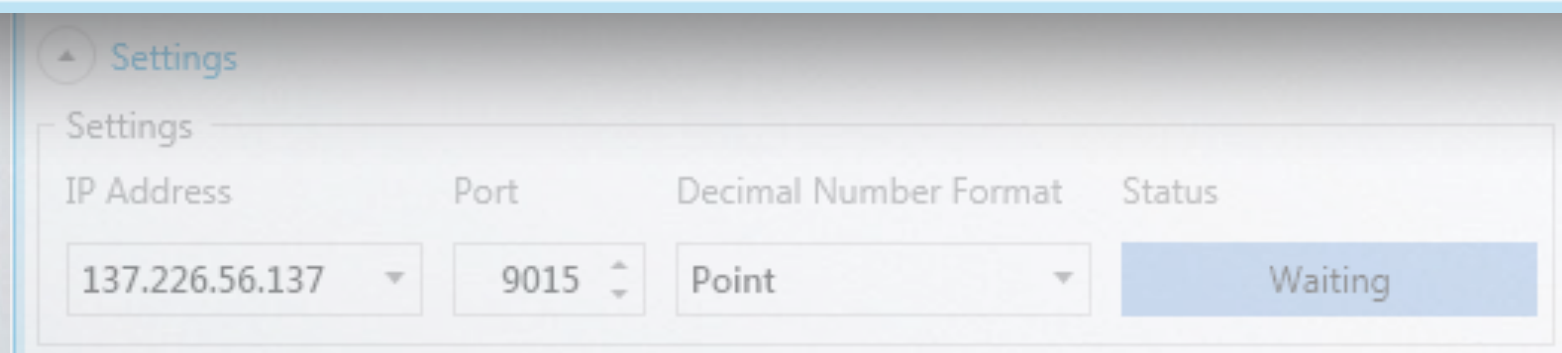
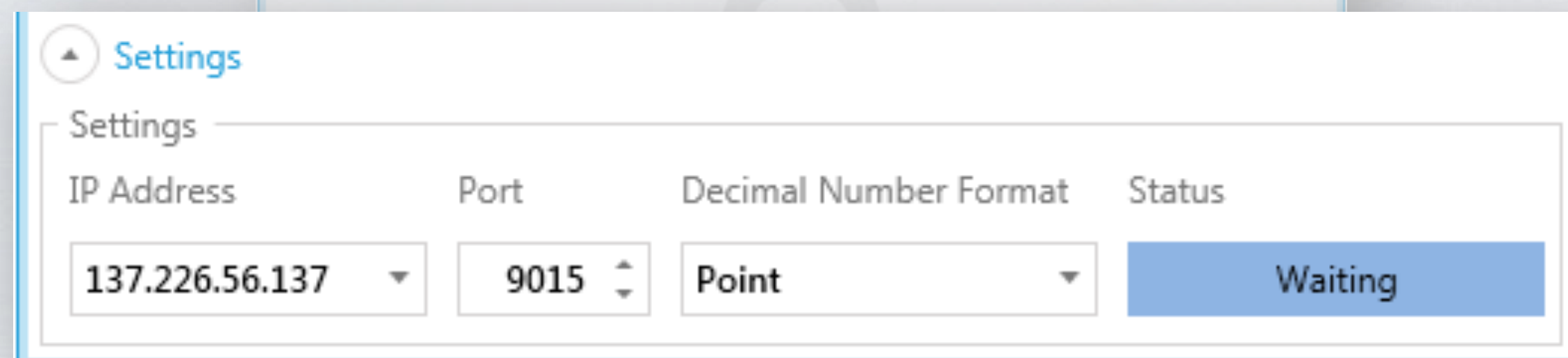
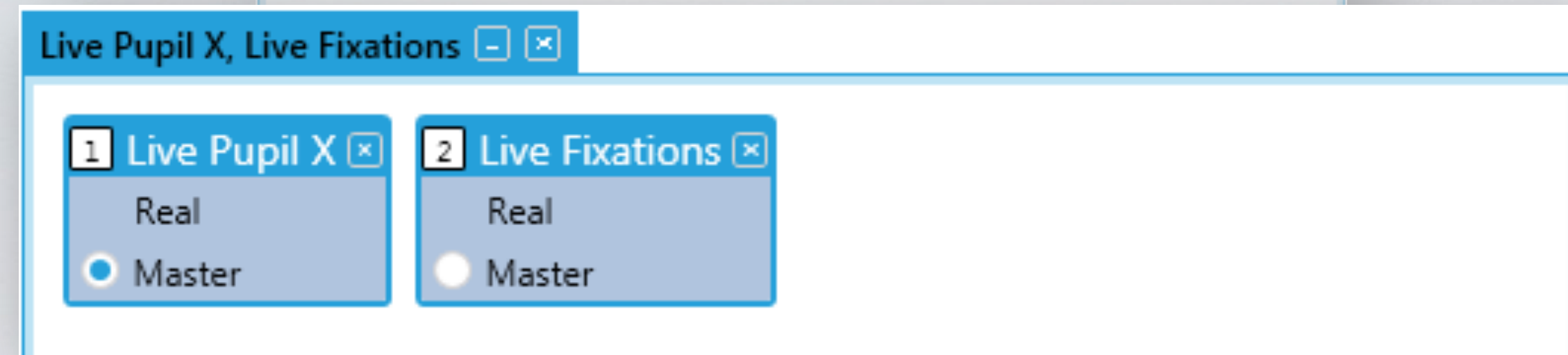
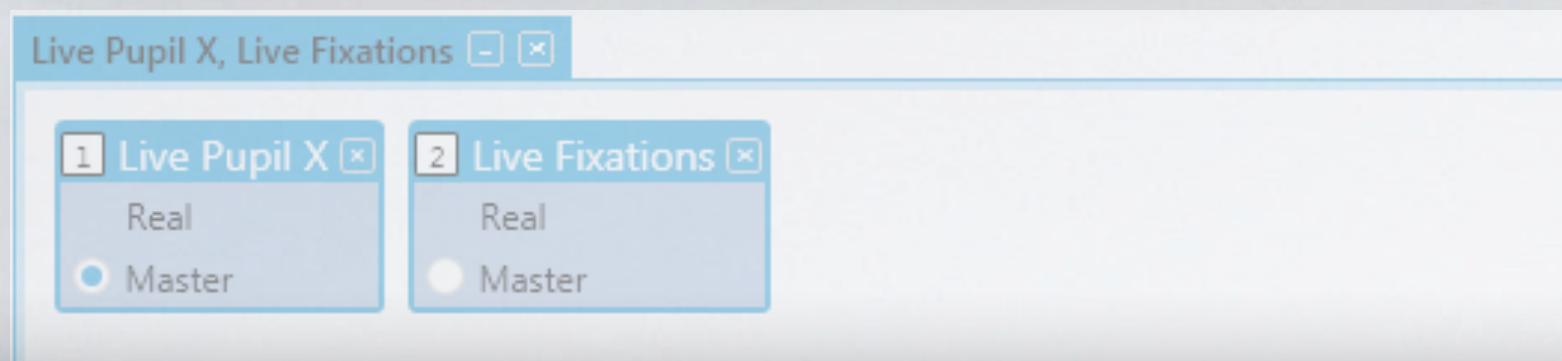
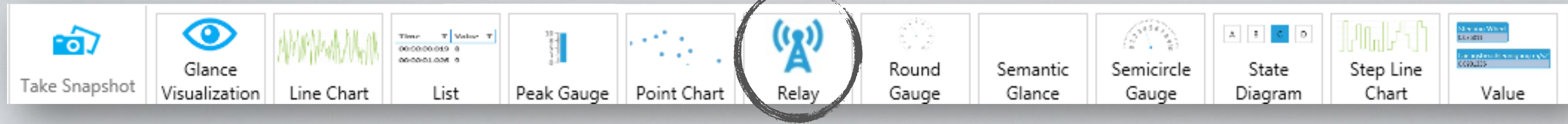
- Hardware
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Take Snapshot | Glance Visualization | **Line Chart** | List | Peak Gauge | Point Chart | Relay | Round Gauge | Semantic Glance | Semicircle Gauge | State Diagram | Step Line Chart | Value



# MEASURE

- Hardware
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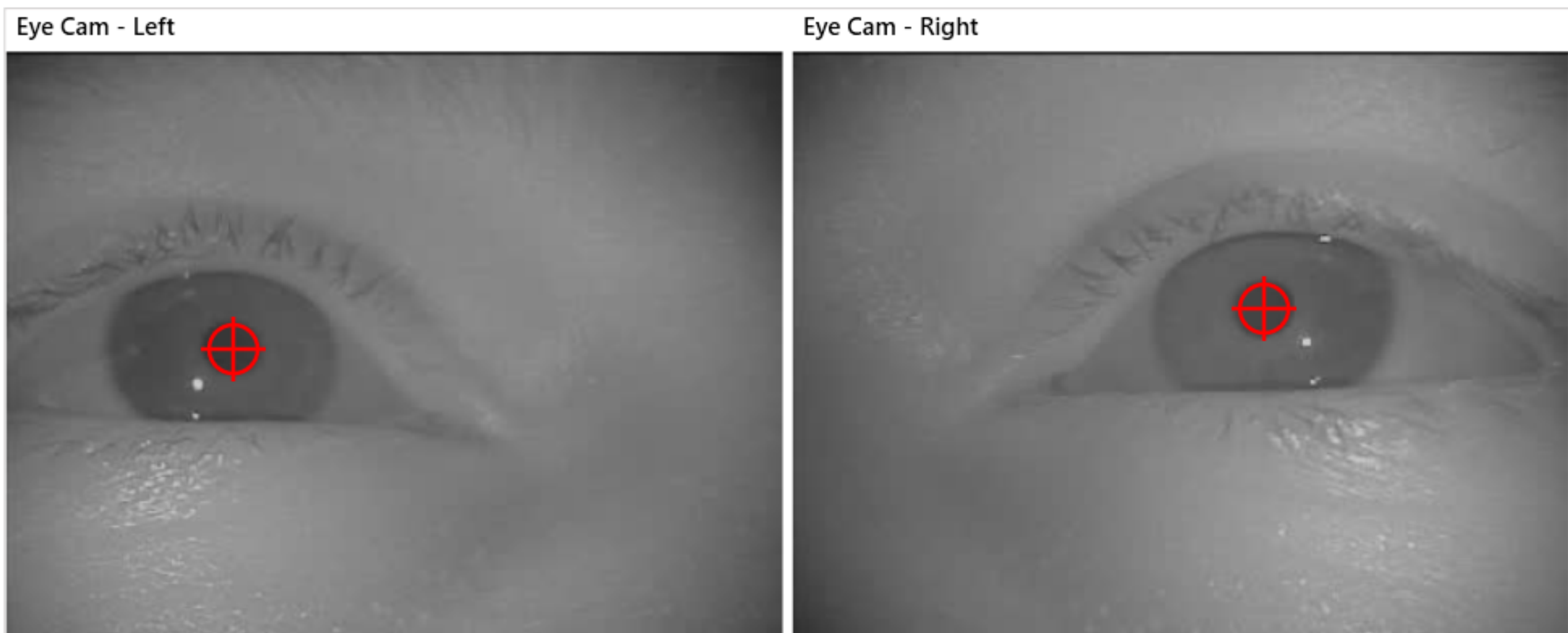
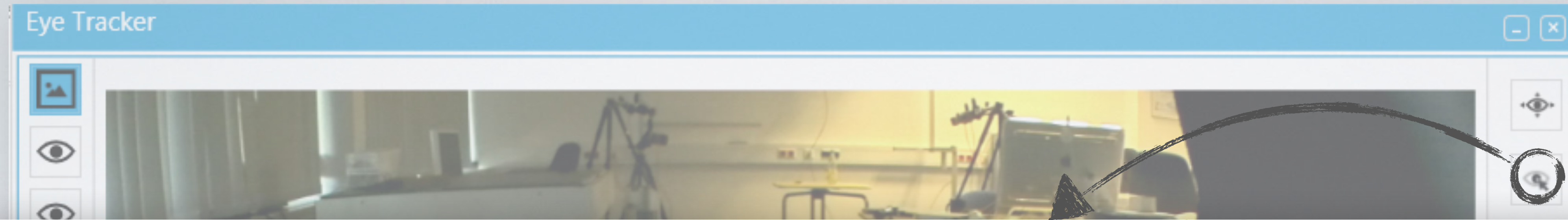


```
- (void)connect {
    [socket connectToHost:@"137.226.56.137" onPort:9015 error:nil];
}
- (void)onSocket:(AsyncSocket *)sock didReadData:(NSData *)data withTag:(long)tag {
    NSString *string = [[NSString alloc] initWithBytes:[data bytes] length:[data length]
        encoding:NSUTF8StringEncoding];
    NSLog(@"Received Data (Tag: %li): %@", tag, string);
}
```

# ANALYSE

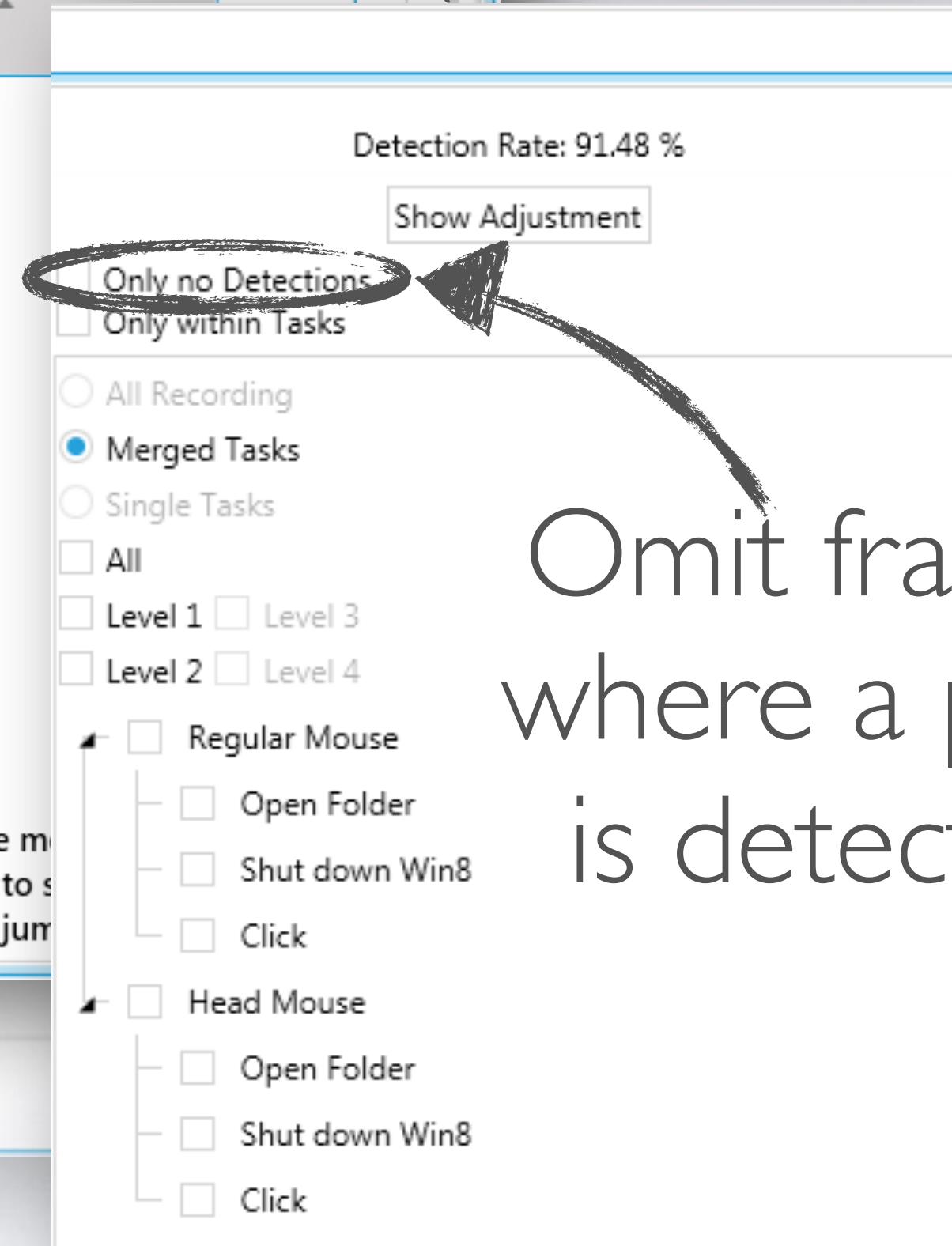
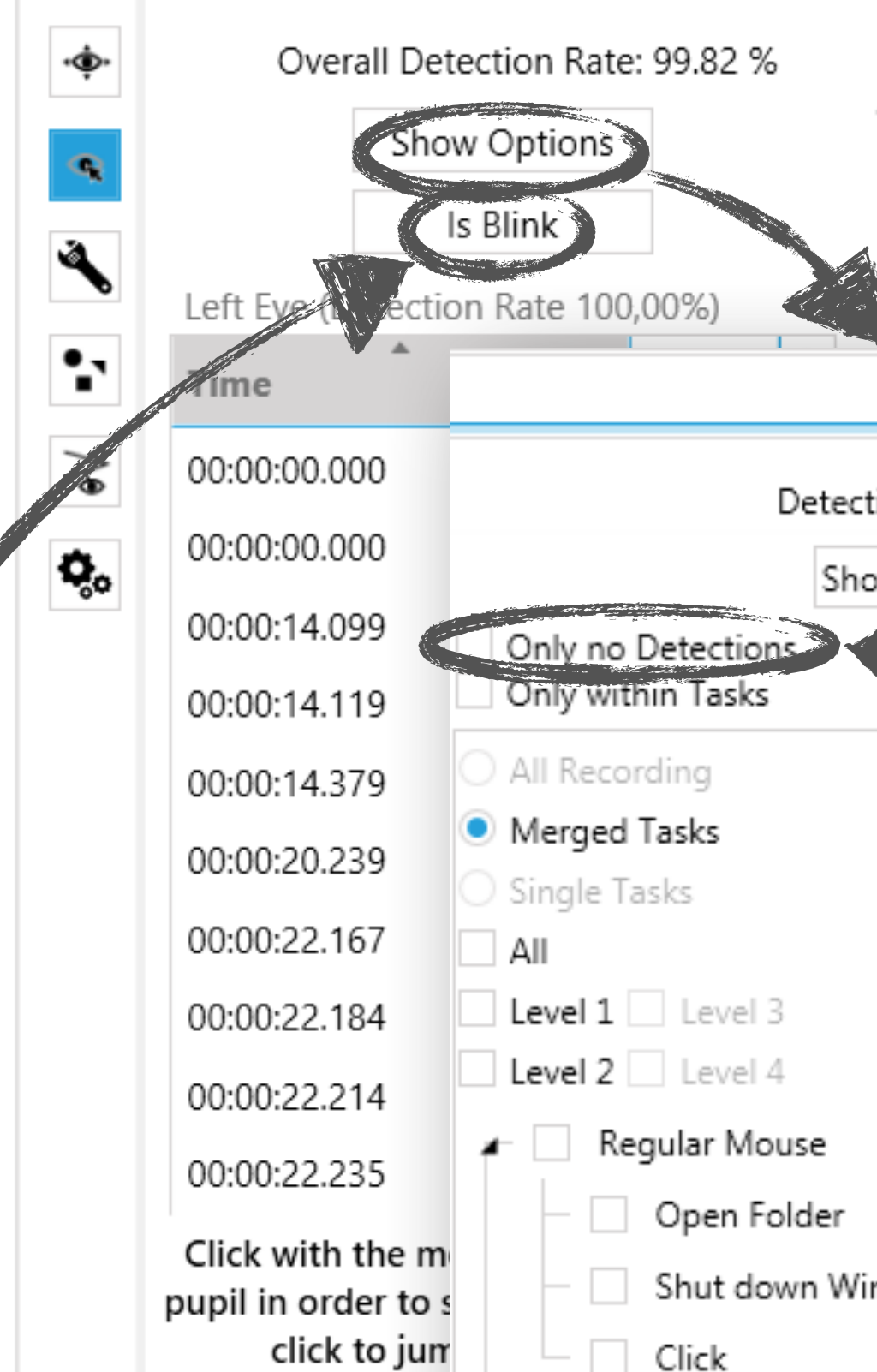
- Hardware
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Improve pupil detection manually



- Left Click: Mark pupil
- Right Click: Go to next frame

If a pupil is wrongly detected: Mark as a blink



Omit frames where a pupil is detected

Pupil detected!

# ANALYSE

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Improve pupil detection automatically

The screenshot displays the D-Lab 3.0 software interface. The main window is titled "D-Lab 3.0 - DemoStudy" and features a menu bar with "File", "Study Design", "Data Analysis", and "Screen Layout". Below the menu bar is a toolbar with icons for "Player", "Data Session Explorer", "Task Definitions", "Task Explorer", "Notes", "AOI Management", "Marker Detection", "Eye Tracking Statistics", and "Data Stream Statistics".

The interface is divided into several sections:

- Study Explorer:** A tree view on the left showing the project structure, including "DemoStudy" and "Phil".
- Eye Tracking:** A central area showing two eye camera views: "Eye Cam - Left" and "Eye Cam - Right". Each view shows a grayscale image of an eye with a red crosshair indicating the pupil detection point. The "Eye Cam - Right" view is significantly larger than the "Eye Cam - Left" view.
- Settings Panel:** A panel on the right titled "Detection Rate: 99.12 %". It contains several options:
  - Only no Detections
  - Only within Tasks
  - Merged Tasks
  - All
  - Level 1  Level 3
  - Level 2  Level 4
- Eye Detection Options:** A section with two checked options:
  - Run detection on Left eye
  - Run detection on Right eye
- Buttons:** "Run detection", "Save Data", and "Clear Data" buttons are located at the bottom of the settings panel.

A hand-drawn arrow points from the "Eye Tracking" tab in the top toolbar to the settings panel.

# ANALYSE

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D-Lab 3.0 - DemoStudy

File Study Design Data Analysis **Screen Layout**

Player Data Session Explorer Task Definitions Task Explorer Notes AOI Management Market Detection Eye Tracking Statistics Data Stream Statistics

Study Explorer Eye Tracking

Name	Duration	Recorded Data
DemoStudy		
Phil		
1. Recording: 4/30/2014 12:48:04 PM	00:00:15.380	
2. Recording: 5/2/2014 3:21:33 PM	00:00:17.365	
3. Recording: 5/15/2014 3:52:12 PM	00:03:13.123	
4. Recording: 5/15/2014 4:07:52 PM	00:00:05.565	
5. Recording: 5/16/2014 9:11:01 AM	00:01:23.913	

File Study Design Data Analysis **Screen Layout**

Take Snapshot Record workspace Waiting playback Stop recording

Work Space

Visualizations

Glance Visualization Line Chart List Peak Gauge Point Chart Relay Round Gauge Semantic Glance Semicircle Gauge State Diagram Step Line Chart Value

Windows

Task Time Lines Glance Time Lines

Player Time Lines

Tasks Glances Fixations & Saccades Behaviors

Name	Type	Visualizations	Info	Is Default
Dikablis				
Eye Tracking				
Eye Data				
Pupil Data				
Pupil X	Real			orig. Default
Pupil Y	Real			
Pupil Height	Real			
Pupil Width	Real			
Pupil Area	Real			
Field Data				
Dikablis Field Cam 001695001696				
Original Data				
Pupils				
Coordinate X	Real			
Coordinate Y	Real			
Gaze				
Saccades				

Pupil detected!

Player

00:00:00.000 00:00:29.070 00:00:05.000 00:01:23.913

26.000 00:00:26.500 00:00:27.000 00:00:27.500 00:00:28.000 00:00:28.500 00:00:29.000 00:00:29.500 00:00:30.000 00:00:30.500

# ANALYSE

- Hardware
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File Study Design Data Analysis Screen Layout

Take Snapshot Record workspace Waiting playback Stop recording

Work Space

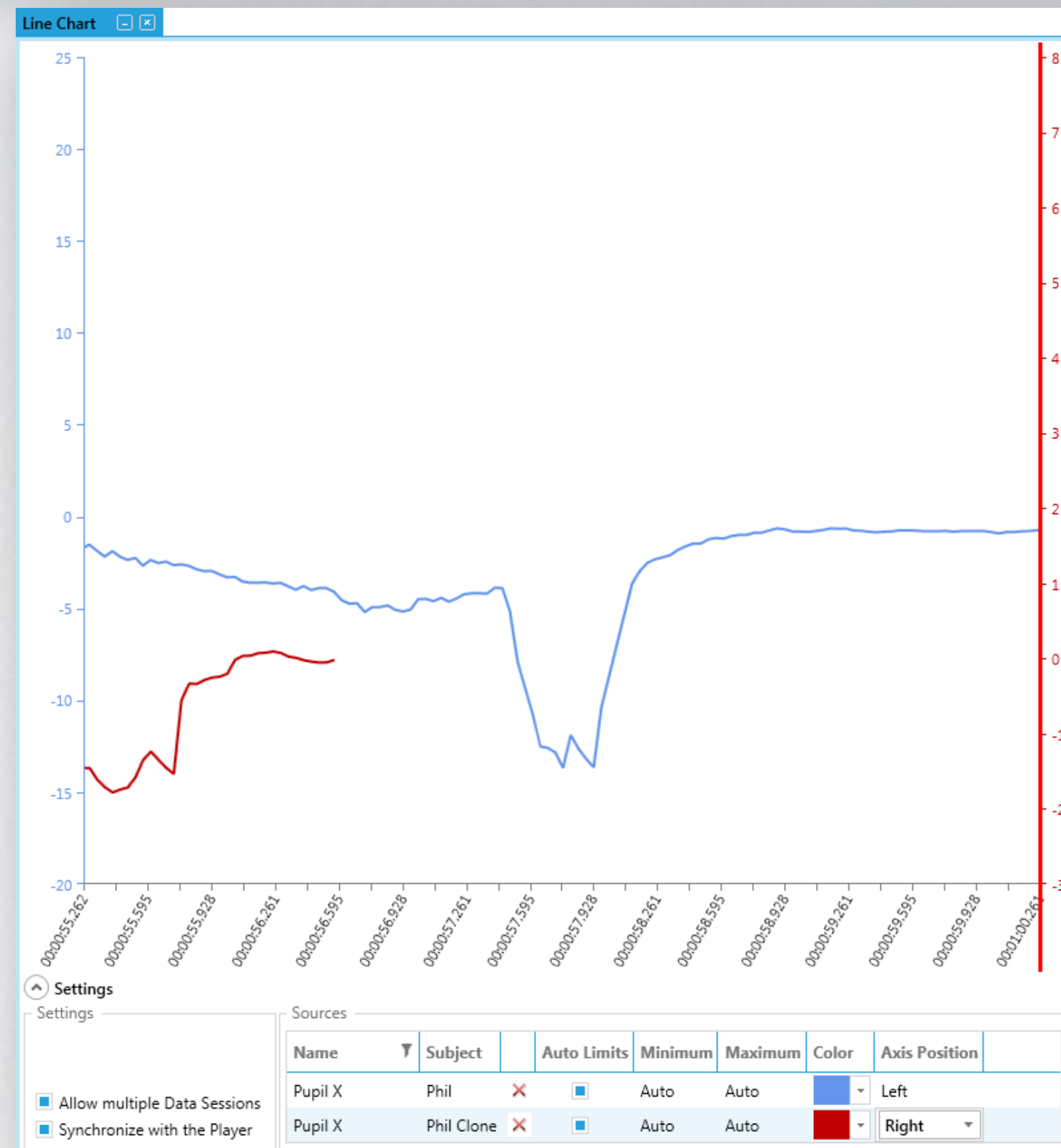
Glance Visualization **Line Chart** List Peak Gauge Point Chart Relay Round Gauge Semantic Glance Semicircle Gauge State Diagram Step Line Chart Value

Visualizations

Task Time Lines Glance Time Lines

Player Time Lines

Tasks Glances Fixations & Saccades Behaviors



# ANALYSE

- Hardware
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File Study Design Data Analysis Screen Layout

Take Snapshot Record workspace Waiting playback Stop recording

Work Space

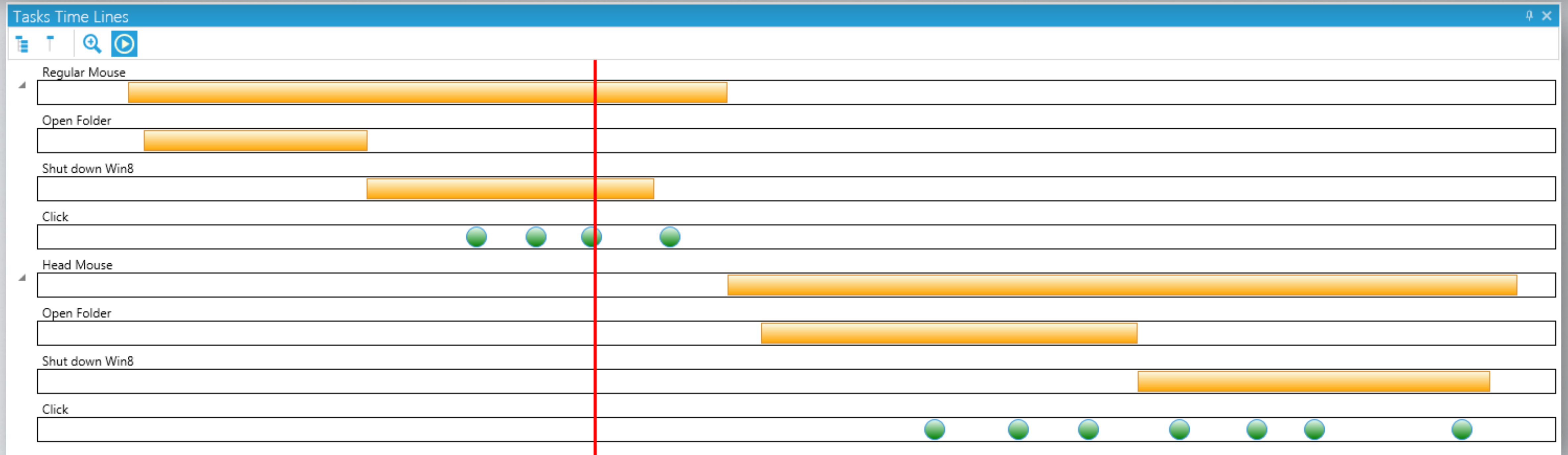
Glance Visualization Line Chart List Peak Gauge Point Chart Relay Round Gauge Semantic Glance Semicircle Gauge State Diagram Step Line Chart Value

Visualizations

Task Time Lines Glance Time Lines

Tasks Glances Fixations & Saccades Behaviors

Player Time Lines



# ANALYSE

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File Study Design Data Analysis Screen Layout

Take Snapshot Record workspace Waiting playback Stop recording

Work Space

Glance Visualization Line Chart List Peak Gauge Point Chart Relay Round Gauge Semantic Glance Semicircle Gauge State Diagram Step Line Chart Value

Visualizations

Task Time Lines Glance Time Lines Tasks Glances Fixations & Saccades Behaviors

Windows Player Time Lines

Player

00:00:00.000 00:00:30.799 00:01:23.913

00:00:28.000 00:00:28.500 00:00:29.000 00:00:29.500 00:00:30.000 00:00:30.500 00:00:31.000 00:00:31.500 00:00:32.000 00:00:32.500

Regular Mouse

Open Folder

Shut down Win8

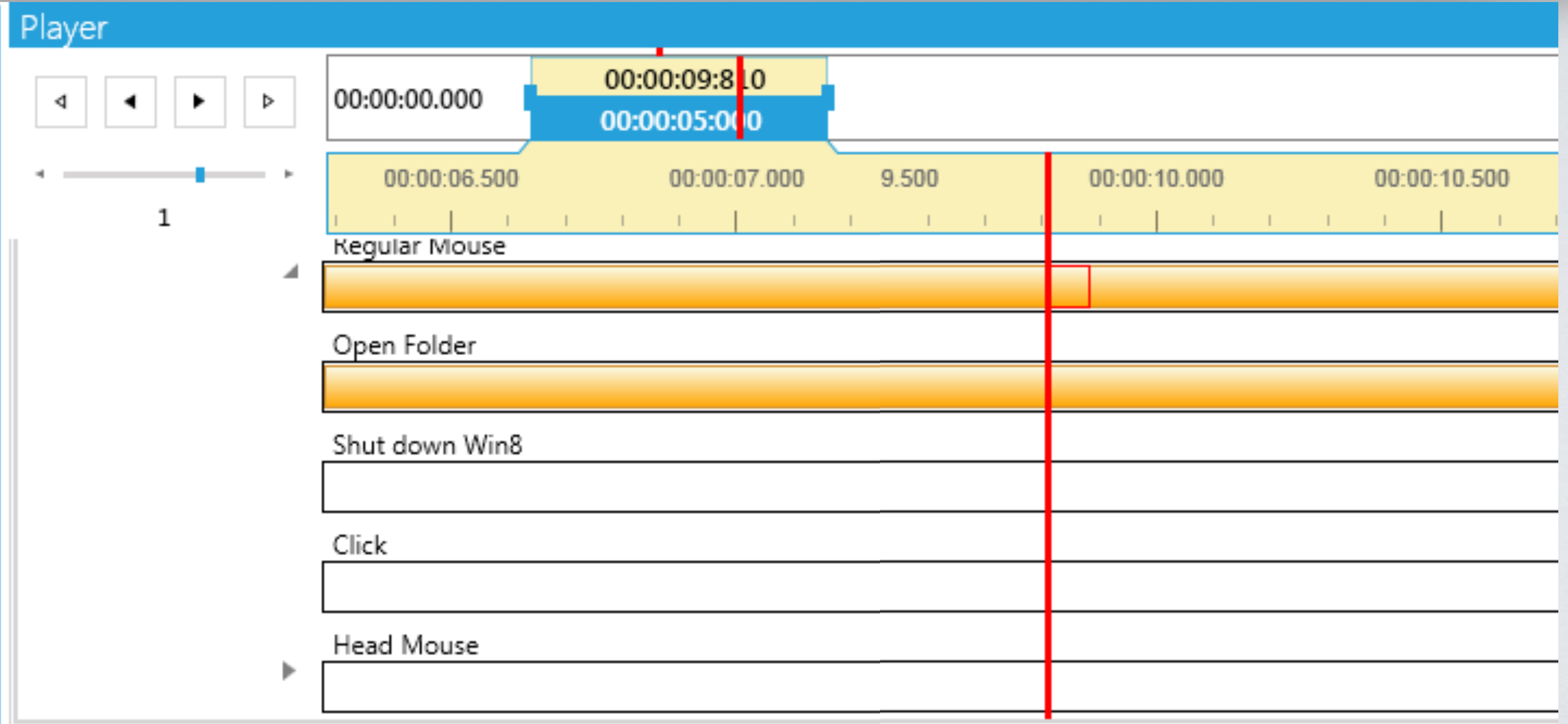
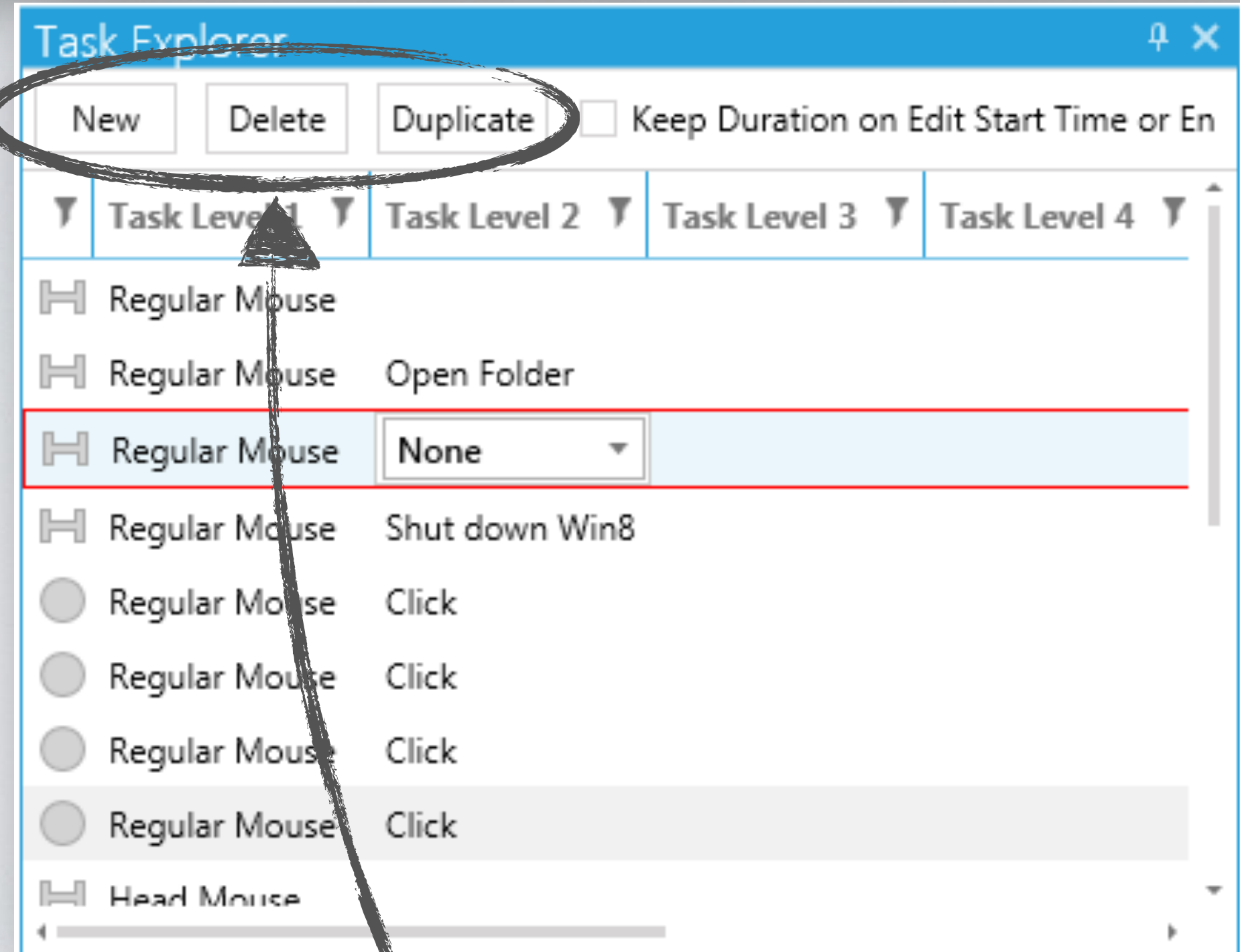
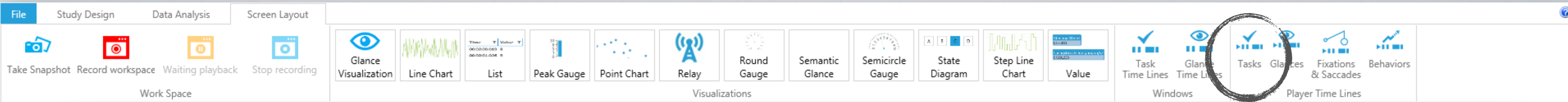
Click

Head Mouse



# ANALYSE

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Add/Edit task markings

# ANALYSE

- Hardware
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The screenshot shows the top navigation bar with tabs for 'Plan', 'Measure', and 'Analyse'. Below it, a ribbon contains several tool icons: 'Player', 'Data Session Explorer', 'Task Definitions', 'Task Explorer', 'Notes', 'AOI Management', 'Marker Detection' (circled with a magnifying glass), 'Eye Tracking Statistics', and 'Data Stream Statistics'.

The 'Data Session Explorer' panel displays a list of recordings:

- 1. Recording: 4/30/2014 12:48:04 PM 00:00:15.380
- 2. Recording: 5/2/2014 3:21:33 PM 00:00:17.365
- 3. Recording: 5/15/2014 3:52:12 PM 00:03:13.123
- 4. Recording: 5/15/2014 4:07:52 PM 00:00:05.565
- 5. Recording: 5/16/2014 9:11:01 AM 00:01:23.913

Below the list is a tree view of data categories:

- Dikablis
  - Eye Data
    - Pupil Data
      - Pupil X (Real)
      - Pupil Y (Real)
      - Pupil Height (Real)
      - Pupil Width (Real)
      - Pupil Area (Real)
    - Field Data
      - Dikablis Field Cam 001695001696
        - Original Data
          - Pupils
            - Coordinate X (Real)
            - Coordinate Y (Real)
          - Gaze
            - Saccades

The 'Offline marker detection' dialog box contains the following configuration options:

1. Select dataSessions for detection:

- All
- DemoStudy
  - Phil
    - 1. Recording: 4/30/2014 12:48:04 PM
    - 2. Recording: 5/2/2014 3:21:33 PM
    - 3. Recording: 5/15/2014 3:52:12 PM
    - 4. Recording: 5/15/2014 4:07:52 PM
    - 5. Recording: 5/16/2014 9:11:01 AM

2. Select detection mode:

- Fast detection (fastest, least accurate)
- Normal detection
- Exhaustive detection (slowest, most accurate)

Progress info:

Total video length selected: 00:01:23.913  
Estimated calculation duration: 00:06:59.565

Buttons: Start Detection, Cancel

# ANALYSE

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Eye Tracking

Name: TestAOI

Key:

Reference

Marker Bounded

Fixed

Manual

Markers

Oslo (8036)

Santiago (1646)

Select the markers that the AOI should be linked to

Study AOI

Subject AOI

Calibration Plane: test

Create

Cancel

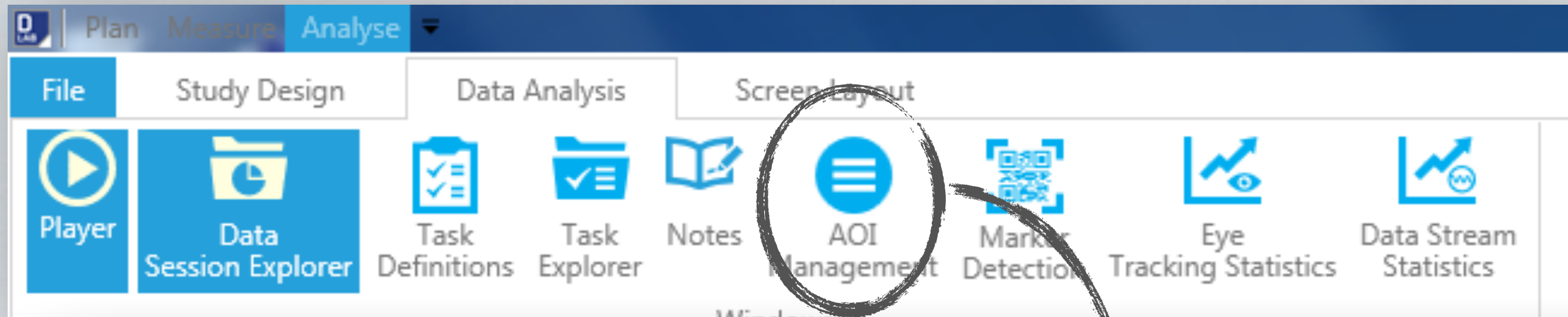
Pupil detected!

Define areas of interest

- Left Click: Define next corner
- Right Click: Close AOI

# ANALYSE

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AOI Management

Color	Name	Scope	Calibration Plane
■	TestAOI	Study test	
■	NewAOI	Study Original	

AOIs Set

Glance Behavior

Entire Study  
 Data Session

Calculate Glances   Eliminate Blinks   Eliminate Fly Throughs

Manual Glances

New   Start   End   Delete

Glance Durations

Start time	Duration	End time
00:00:00.132	00:00:07.640	00:00:07.772
00:00:07.972	00:00:00.160	00:00:08.132

Start calculation

Don't count blinks (e.g. for entries of an AOI)

Don't count entry and exit when just moving through an AOI

# ANALYSE

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File Study Design Data Analysis Screen Layout

Take Snapshot Record workspace Waiting playback Stop recording

Work Space

Glance Visualization Line Chart List Peak Gauge Point Chart Relay Round Gauge Semantic Glance Semicircle Gauge State Diagram Step Line Chart Value

Visualizations

Task Time Lines Glance Time Lines Tasks Glances Relations & Saccades Behaviors

Window Player Time Lines

### Glance Time Lines

TestAOI

NewAOI

### Player

00:00:00.000 00:01:07:457 00:00:05:000 00:01:23.913

00:01:06.500 00:01:07.000 00:01:07.500 00:01:08.000 00:01:08.500 00:01:09.000 00:01:09.500 00:01:10.000 00:01:10.500 00:01:11.000

1

TestAOI

NewAOI

# ANALYSE

- Hardware
- Software
- Minimal Steps
- PLAN
- MEASURE
- ANALYSE

Eye Tracking Statistics

Config Result 1 LVP 1

Subjects

- DemoStudy
  - Phil
    - 1. Recording: 4/30/2014 12:48:04 PM
    - 2. Recording: 5/2/2014 3:21:33 PM
    - 3. Recording: 5/15/2014 3:52:12 PM
    - 4. Recording: 5/15/2014 4:07:52 PM
    - 5. Recording: 5/16/2014 9:11:01 AM

Tasks

- Entire Data Session
- Merged Tasks
- Single Tasks
- All
- Level 1  Level 3
- Level 2  Level 4
- Regular Mouse
  - Open Folder
  - Shut down Win8
  - Click
- Head Mouse
  - Open Folder
  - Shut down Win8
  - Click

AOIs and AOI Set

- All
- TestAOI
- NewAOI

Metrics

- All
- Duration [s]
- Number of Glances
- Nr. of glances > 2s
- Total Glance time [s]
- Mean Glance Duration [s]
- Glance Rate [1/s]
- AOI Attention Ratio [%]
- Maximum Glance Duration [s]
- Minimum Glance Duration [s]
- Glance Location Probability [%]
- Link Value Probability [%]
- Percentage Transition Times [%]
- Horizontal Eye Activity [pixel]
- Vertical Eye Activity [pixel]
- Percentage of eyelid closure
- Fixation duration [s]
- Number of fixations []
- Saccade length [pixel]
- Number of saccades
- Time to first glance [s]
- Time to first fixation [s]
- Eye activity [pixel/s]
- Glance Duration Percentile [s]

Dikablis

Calculate

Task Explorer Notes AOI Management Marker Detection Eye Tracking Statistics Data Stream Statistics

# ANALYSE

- Hardware
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- PLAN
- MEASURE
- ANALYSE

Eye Tracking Statistics

Config Result 1 x LVP 1 x

Subjects: DemoStudy, Phil

Tasks:  Entire Data Session,  Merged Tasks,  Single Tasks

AOIs and AOI Sets:  All,  TestAOI,  NewAOI

Metrics:  All,  Duration [s],  Number of Glances

Eye Tracking Statistics

Config Result 2 x

Subject	SESSION Duration [s]	SESSION Percentage Transition Times [%]	SESSION TestAOI Number of Glances	SESSION TestAOI Nr. of glances > 2s	SESSION TestAOI Total Glance time [s]	SESSION TestAOI Mean Glance Duration [s]	SESSION TestAOI Glance Rate
Phil	83.913	26.137	15	8	61.821	4.121	0.179
5. Recording: 5/16/2014 9:11:01 AM							
Average	83.913	26.137	15	8	61.821	4.121	0.179
Standard Deviation	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Maximum	83.913	26.137	15	8	61.821	4.121	0.179
Variance	NaN	NaN	NaN	NaN	NaN	NaN	NaN
Median	83.913	26.137	15	8	61.821	4.121	0.179

Export

Calculate

# ANALYSE

- Hardware
- Software
- Minimal Steps
- PLAN
- MEASURE
- ANALYSE

test - Notepad

File Edit Format View Help

Subject	SESSION_Duration_[s]	SESSION_Percentage_Transition_Times_[%]	SESSION_TestAOI_Number_of_Glances	SESSION_T
Phil5. Recording: 5/16/2014 9:11:01 AM	83.913 26.137 15	8 83.913 26.137 15	61.821 4.121 0.179 73.673 17.52 0.16	93.75 60.501 2
Average	83.913 26.137 15	8 61.821 4.121 0.179 73.673 17.52 0.16	93.75 63.165 30.343 6.056	60.501 2
Standard Deviation	NaN NaN	NaN NaN NaN NaN	NaN NaN NaN NaN	NaN NaN
Maximum	83.913 26.137 15	8 61.821 4.121 0.179 73.673 17.52 0.16	93.75 63.165 30.343 6.056	60.501 2
Variance	NaN NaN	NaN NaN NaN NaN	NaN NaN NaN NaN	NaN NaN
Median	83.913 26.137 15	8 61.821 4.121 0.179 73.673 17.52 0.16	93.75 63.165 30.343 6.056	60.501 2

SESSION TestAOI Nr. of glances > 2s	SESSION TestAOI Total Glance time [s]	SESSION TestAOI Mean Glance Duration [s]	SESSION TestAOI Glance Rate
8	61.821	4.121	0.179
8	61.821	4.121	0.179
			NaN
			NaN
			0.179
			NaN
			0.179

CSV Export

Data Format  
Decimal Number Format

Point

3. Select file Save location:

C:\Users\Simon\Desktop\PhilDemoImages\test.txt

Export Data

Export



# ANALYSE

- Hardware
- Software
- Minimal Steps
- PLAN
- MEASURE
- ANALYSE

The screenshot shows the 'Export data for Study DemoStudy' dialog box in the D-Lab 3.0 - DemoStudy software. The dialog is organized into several sections:

- Subjects:** Lists 'Phil' and 'Phil Clone' with their respective recording dates and times.
- Tasks:** Lists 'Regular Mouse', 'Head Mouse', and 'Click' with sub-tasks like 'Open Folder', 'Shut down Win8', and 'Click'.
- Recorded Data:** Lists various data types for export, including 'Eye Tracking', 'Original Pupil Data', 'Processed Pupil Data', 'Original Field Data', 'Field Data "FarPlane"', 'Field Data "FarPlane2"', 'Field Data "test"', 'Eye Video', 'Field Video', 'Eye Tracking Video', 'Glances to AOI', 'Marker Positions', and 'Saccades and Fixations'. The 'Eye Tracking' section is expanded, showing sub-options like 'Eye Coordinates (x,y)', 'Pupil Height', 'Pupil Size', and 'Pupil Width'. The 'Glances to AOI' section is also expanded, showing 'AOI "NewAOI"' and 'AOI "TestAOI"'.
- Special Exports:** Lists 'Triggered Tasks', 'Behavior Observations', 'Glance Intervals on Aois', and 'Export Notes'. The 'Glance Intervals on Aois' checkbox is checked.
- Export Frequency:** Lists 'Eye Tracking' and 'All Frequencies. No sampling'. The 'All Frequencies. No sampling' radio button is selected.
- Export Configuration Name:** A text field with the placeholder 'Name not mandatory'.
- Export Each Task in a Different File:** An unchecked checkbox.
- Export:** A button at the bottom right.