

MaxTRAQ Real-Time Tracking

Quick Guide





Introduction

MaxTRAQ Real-Time Tracking is using a Server-Client configuration where the server is the Recorder and the Client is the Tracker. A MaxTRAQ Raw file is used as a shared memory file where the Server writes data into the file and the client reads from the file.

This document gives you a quick introduction on how to setup MaxTRAQ for Real-Time tracking. For more in depth information please see the help files distributed with MaxTRAQ.



Step 1 – Configuring MaxTRAQ Real-Time Tracking Client

- Start MaxTRAQ
- > Select Options and then start by selecting the General tab

Options		
Point Zoom Magnification	<u>4</u> X ▼	
First Frame Number	C 0 € 1	
Gate Markers	Pause 💌	
Trigger Markers	None	
Default Number of Points	1 🕂	
Most Recently Used File List	4 ÷	
Default Playback Speed	Faster 😽	
Show Slider Handles for T0/T1 adjustments		
Save points between T0 and T1 only		
Disable Number Menus		
Password Protect Options		
Display Profile Dialog on Start	t	

Select Default Playback as Real-Time or Faster. Faster is recommended for best performance.

> Next select the Recorder-Advanced tab



Capture File				
Capture to C File C Folder Share				
E:\StreamingFile.mqr				
PreAllocate 1000 🕂 MB				
Save Unprocessed Color Pixels				
Compress Video				
Always overwrite existing recording (if available)				
✓ Display FIFO Buffer Status				

Make sure that the above is selected and select a file name to be used as the shared memory file.

> Then select the Tracking-Settings tab

Background Clight © Dark	C Auto Detect	
Tracking		
Manual Threshold	180 Adjust	
Match Accuracy	31% Adjust	
Search Window Adjustment	47 Adjust	
Search Window Size	Adjust	
Options		
✓ Track in Original Image	✓ Use Prediction	
Autoidentify Markers	Bidirectional Tracking	
Stop on Lost Point	✓ Stop at End of File	
F Show Tracking Image	F Show Search Window	
J▼ Show Explanation	Search Window Color Automatic 💌	

Here make sure you have Stop on lost point deselected. Depending on your application, you may want to use Autoidentify Markers, The Tracking options will also depend on your applications. You may want to record some files and adjust accordingly for best performance.



Step 2 – Configuring MaxTRAQ Real-Time Streaming Server

Start the Streaming Server from your opened MaxTRAQ by clicking on the M2 icon. The icon is available after you select to view the Multiview Toolbar from the View menu

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After the second instance, the Streaming Server, has started, select Options and then the Recorder Settings tab.

Mode				
Streaming Server	•			
E:\StreamingFile.mqr				
Add Counter]			
Start Counter 🥊 🚊	🔽 Overwrite			
🔽 Stop after 🛛 🔂 🚊	Recordings			
Close Recorder 🚽	after File Record			
Options				
Start Streaming Server when ru	nning as Instance 2			
Display Subject Info 💌 Dialog on New Recording				
I ✓ Automatically turn on Preview on New Recording				
Prompt to Start Recording	ithout Soft Sync 💌			
Close Dialog after	🛨 Seconds			
Update recording status every 5	+ Frames			

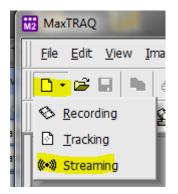
Make sure to select the same file name as you did in step 1.

> Next, close and restart the Streaming Server. It should start in preview mode.



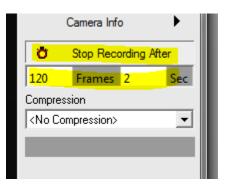
Step 3 – Recording Real-Time data

- > Next, close and restart the Streaming Server. It should start in preview mode.
- > Click on the New Toolbar button and select Streaming

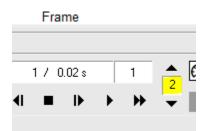


This should give you a live image from the Streaming Server. You can now start the tracking by clicking on Digitize and Auto-tracking. Select the markers as you usually do or if you have Autoidentify on, the markers will be automatically identified by a top left to bottom right order.

Start recording from the Streaming Server by clicking on Record as you normally do. Make sure to have stop after a number of frames selected.



- The Streaming client should now start tracking. If you have the graph displayed, then the graph will be updated.
- If your computer can't handle the tracking the selected frame rate, you can select to track only every nth point.





- > Once the recording has stopped, you can save the file. You can also retrack with every frame if needed.
- > Note that you can use tools in real-time
- > After you're done. Close the recorded file. You can now start a new Recording on the Streaming Server and a new Streaming File on the Client.

Note; It is important that you save data before starting a new file because the real-time data will be overwritten each time (unless you change in Recorder Options).