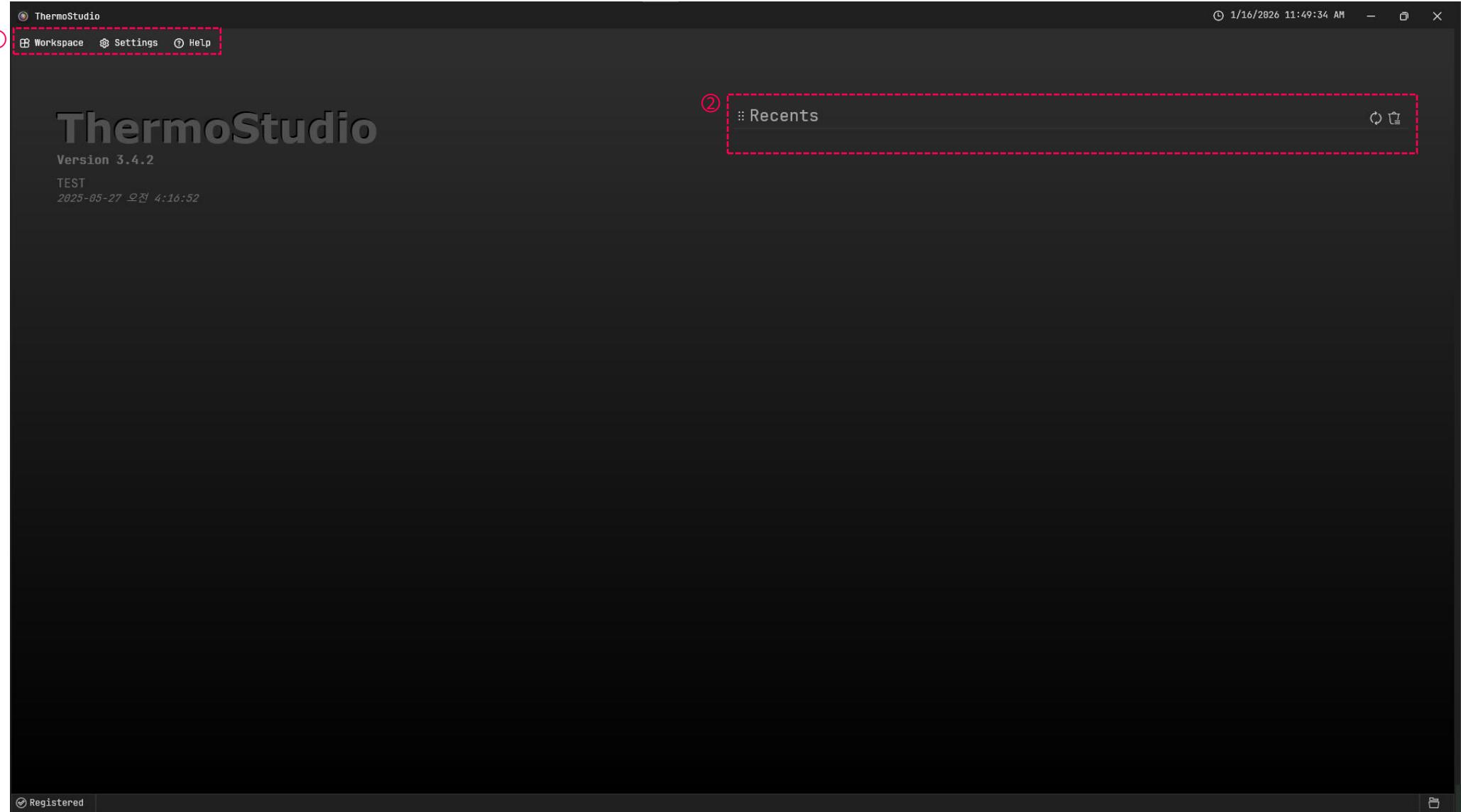


# ThermoStudio

## Quick Manual

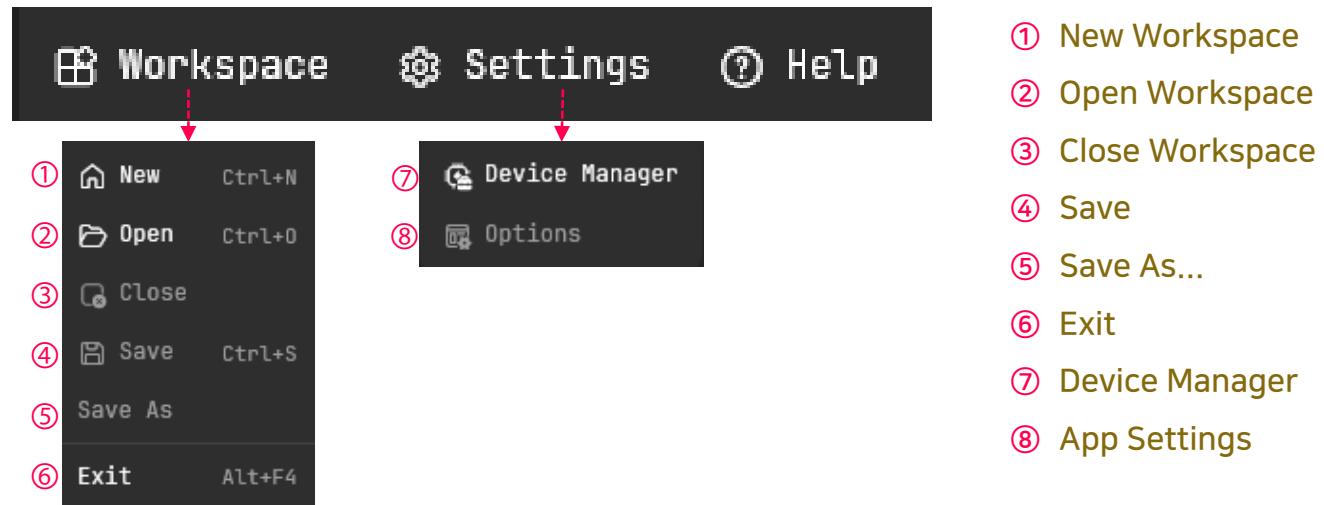


# 01 Start Screen



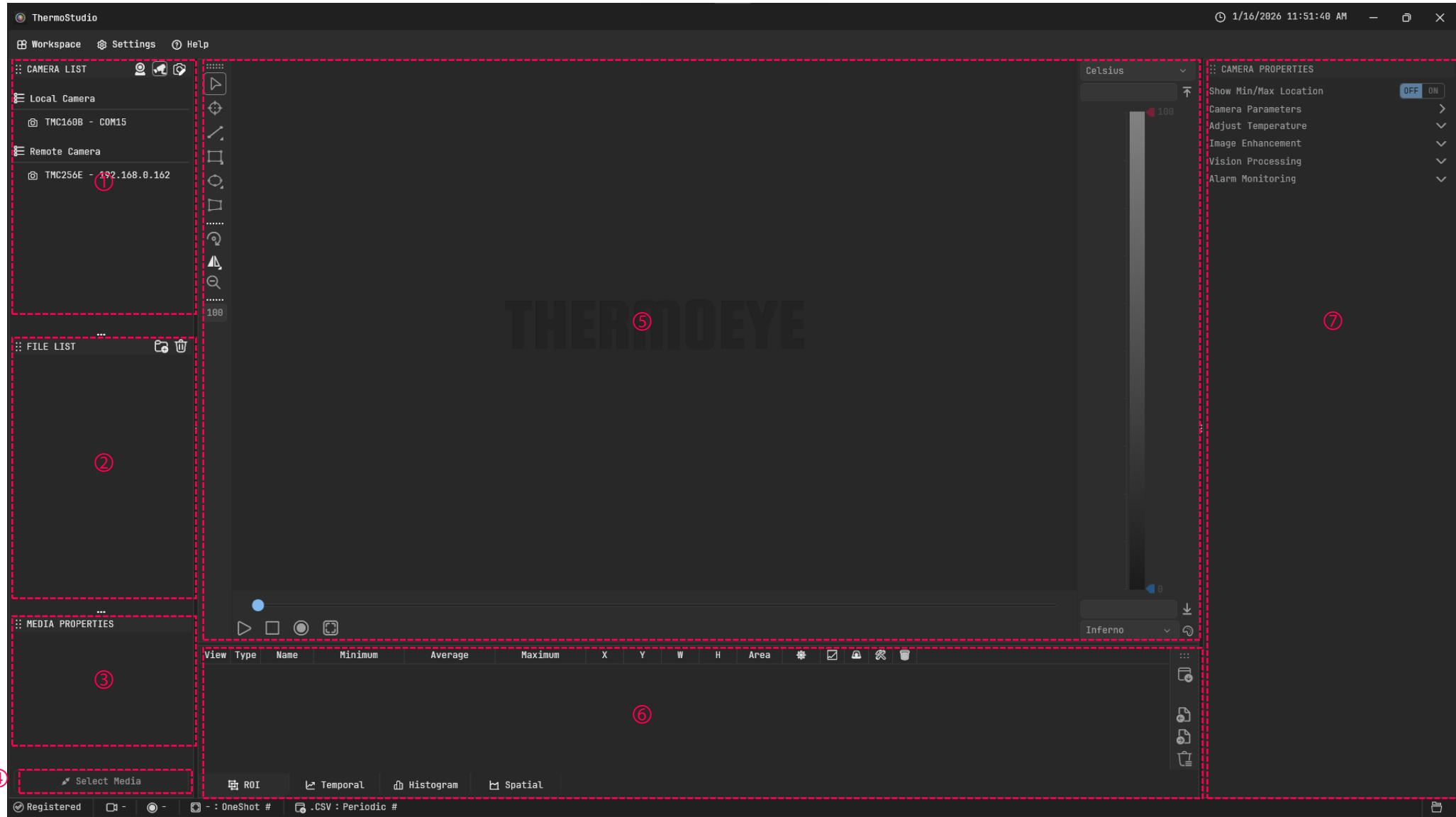
- ① Top Menu
- ② Open Recent Workspace

# 01 Start Screen - Top Menu



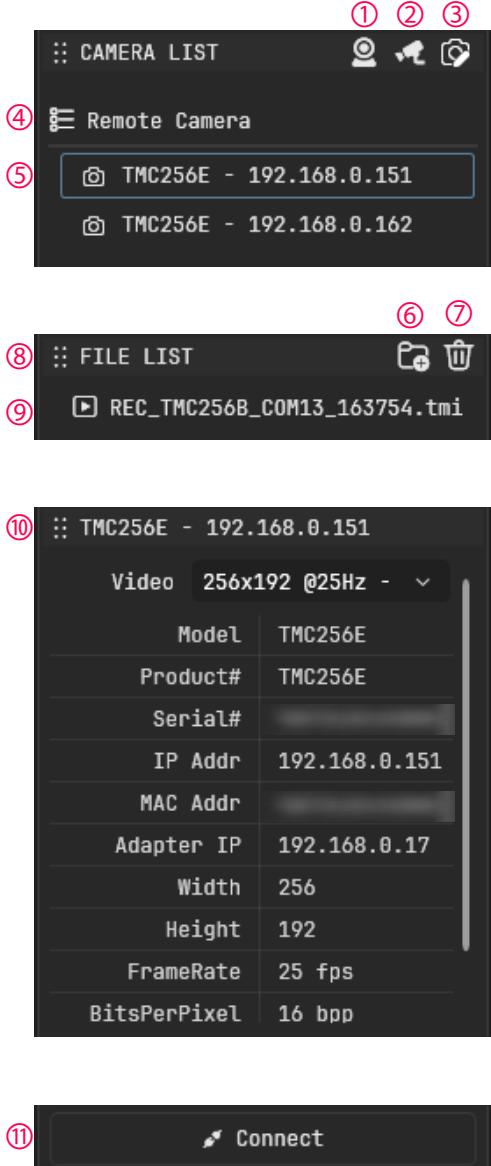
- ① New Workspace
- ② Open Workspace
- ③ Close Workspace
- ④ Save
- ⑤ Save As...
- ⑥ Exit
- ⑦ Device Manager
- ⑧ App Settings

## 02 Workspace



- ① Camera List
- ② File List(.tmi)
- ③ Media Properties
- ④ Connection Control
- ⑤ Thermal Viewer
- ⑥ ROI & Analytics
- ⑦ Camera Properties

## 02 Workspace: Camera & File List



- ① Scan Local Cameras (USB)
- ② Scan Remote Cameras (Ethernet)
- ③ Rename Camera
- ④ Device List (USB/Ethernet)
- ⑤ Discovery Results
- ⑥ Import Recording (.tmi)
- ⑦ Remove File
- ⑧ Recording List
- ⑨ Loaded File
- ⑩ Media Properties

### [ Local Camera ]

Video: Resolution @ FPS  
Model: Camera Model Name  
Serial#: Serial Number  
IP Addr: Camera IP Address  
MAC Addr: Camera MAC Address  
Adapter IP: PC Interface IP Address  
Width: Image Width  
Height: Image Height  
FrameRate: FPS (Frames Per Second)  
BitsPerPixel: Bit Depth  
Format: Video Format

- ⑪ Connect / Disconnect

### [ Remote Camera ]

Video: Resolution @ FPS  
Model: Camera Model Name  
Product#: Product Number  
Serial#: Serial Number  
IP Addr: Camera IP Address  
MAC Addr: Camera MAC Address  
Adapter IP: PC Interface IP Address  
Width: Image Width  
Height: Image Height  
FrameRate: FPS (Frames Per Second)  
BitsPerPixel: Bit Depth  
Format: Video Format

## 02 Workspace: Camera Properties

The screenshot displays the 'CAMERA PROPERTIES' interface. On the left, a sidebar lists several options: 'Show Min/Max Location' (OFF/ON), 'Camera Parameters' (with a right-pointing arrow), 'Adjust Temperature' (selected and highlighted with a red dashed box), 'Image Enhancement' (selected and highlighted with a red dashed box), 'Vision Processing', and 'Alarm Monitoring'. A red arrow points from the 'Adjust Temperature' entry in the sidebar to the 'Adjust Temperature' panel on the right. Another red arrow points from the 'Image Enhancement' entry in the sidebar to the 'Image Enhancement' panel on the right.

**① Thermal Offset Calibration**

**② Image Quality Enhancement**

**③ Slope Adjustment**

**④ Offset Adjustment**

**⑤ Noise Filtering (Smoothing)**

**⑥ Digital Detail Enhancement**

**⑦ Contrast Optimization (PE)**

**⑧ Denoising (Softness Control)**

**⑨ Sharpening (Clarity Control)**

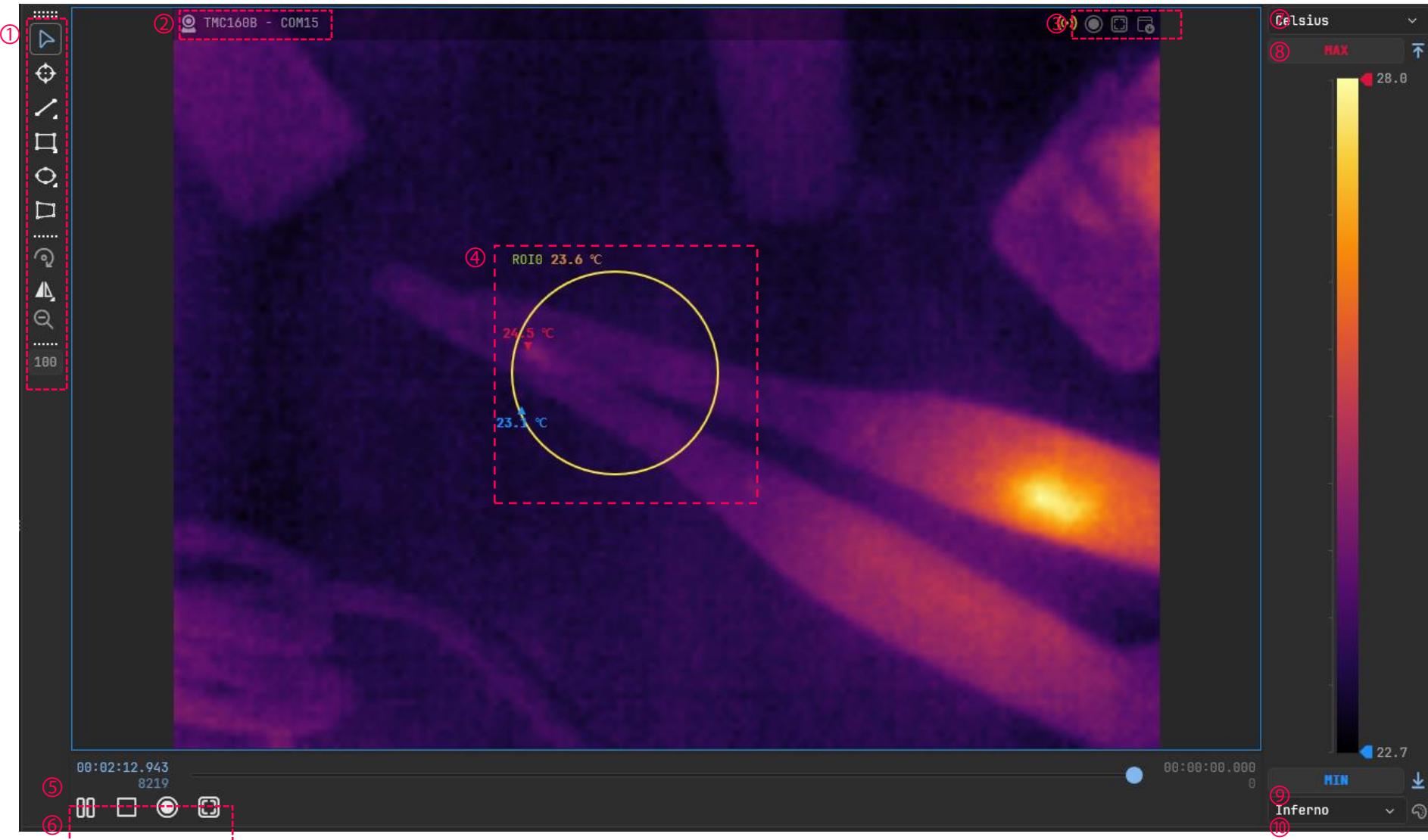
**Adjust Temperature**

- ③ Slope: 1.00
- ④ Offset: 0.0 °C

**Image Enhancement**

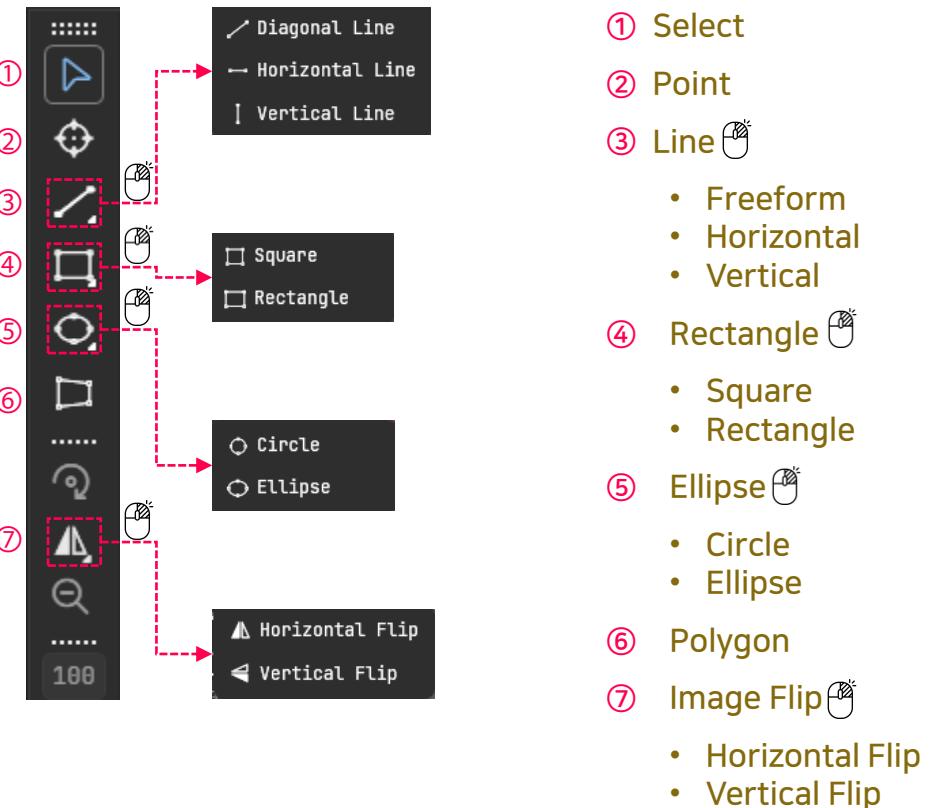
- ⑤ Noise Filter
- ⑥ Digital Detail: 1.5 < 2.5
- ⑦ Plateau Equalizer: 10000 < 65535
- ⑧ Denoising: -1
- ⑨ Sharpening: -1

## 02 Workspace: Thermal Viewer



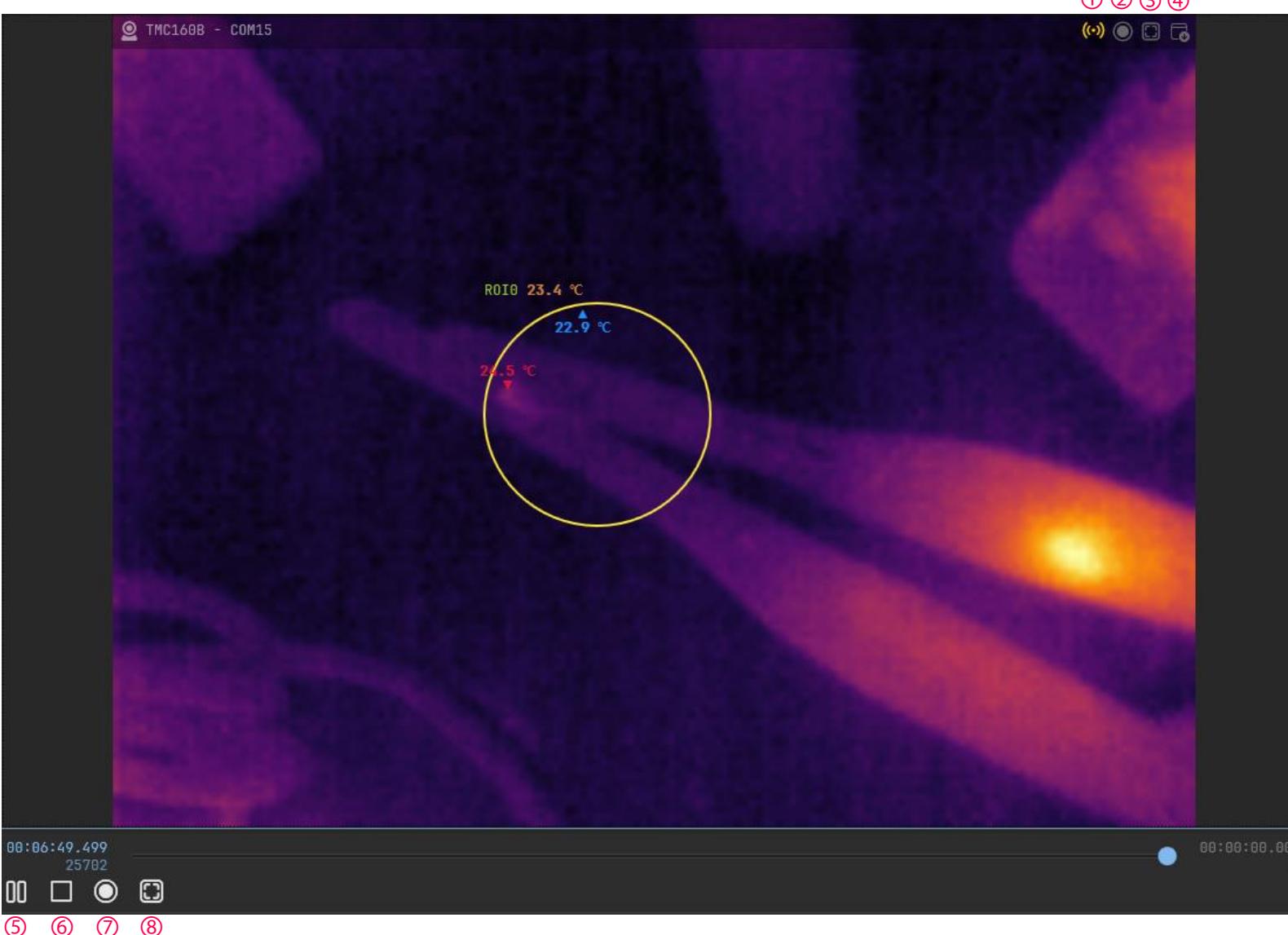
- ① ROI Configuration Tools
- ② Device Info (Name - IP/Port)
- ③ Media Status Bar
- ④ ROI Overlays & Temperature Data
  - Red: Max Temperature
  - Blue: Min Temperature
  - Orange: Average Temperature
- ⑤ Playback / Live Timestamp
- ⑥ Media Control Bar
- ⑦ Temperature Unit (°C/F)
- ⑧ Max Temp Filter
- ⑨ Min Temp Filter
- ⑩ Thermal Color Palette

## 02 Workspace: ROI Configuration Tools



- ① Select  
Diagonal Line  
Horizontal Line  
Vertical Line
- ② Point
- ③ Line
  - Freeform
  - Horizontal
  - Vertical
- ④ Rectangle
  - Square
  - Rectangle
- ⑤ Ellipse
  - Circle
  - Ellipse
- ⑥ Polygon
- ⑦ Image Flip
  - Horizontal Flip
  - Vertical Flip

## 02 Workspace: Status Bar & Control Bar



① ② ③ ④

- ① Playback Status
- ② Recording Status
- ③ Capture Status
- ④ CSV Logging Status
- ⑤ Play / Pause
- ⑥ Stop
- ⑦ Record
- ⑧ Capture (Snapshot)

[ Image ] [ Raw ]

- .PNG      • .CSV
- .BMP      • .BIN
- .JPG
- .GIF
- .TIF

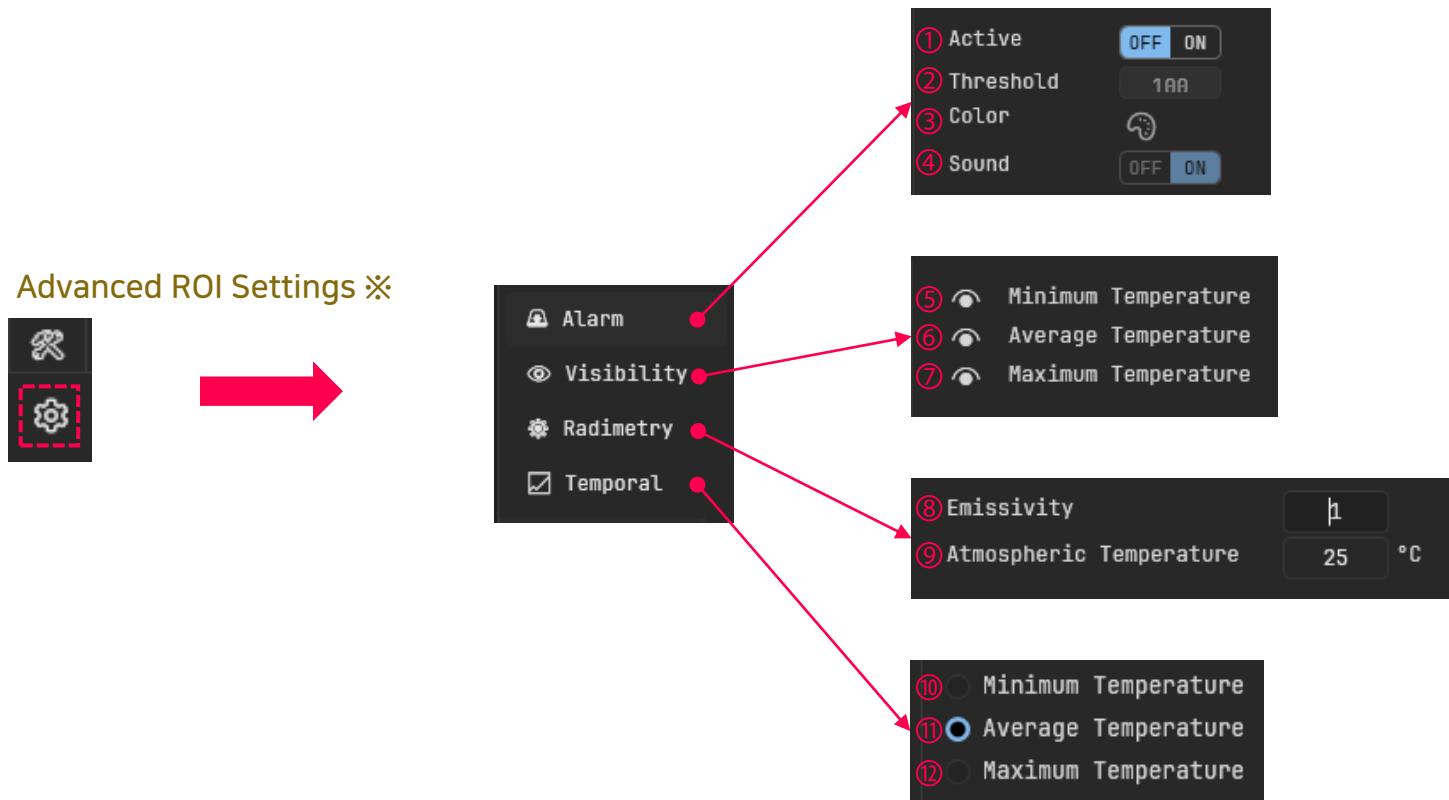
## 02 Workspace: ROI List & Analytics Panel

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯			
View	Type	Name	Minimum	Average	Maximum	X	Y	W	H	Area		<input checked="" type="checkbox"/>						
		ROI0		20.2 °C		23.9 °C		33.6 °C	200	334	187	114	21318	1	<input checked="" type="checkbox"/>			
		ROI1		22.5 °C		23.8 °C		24.7 °C	436	354	183	74	6114	1	<input checked="" type="checkbox"/>			

ROI Temporal Histogram Spatial

- ① Visibility (or Show/Hide)
- ② Type
- ③ Name
- ④ Min Temperature
- ⑤ Avg Temperature
- ⑥ Max Temperature
- ⑦ X-Coordinate
- ⑧ Y-Coordinate
- ⑨ Width (W)
- ⑩ Height (H)
- ⑪ Area
- ⑫ Emissivity (0.0 – 1.0)
- ⑬ Include in Temporal Graph
- ⑭ Alarm Color
- ⑮ Advanced ROI Settings ☰
- ⑯ Remove Selected
- ⑰ Start CSV Logging
- ⑱ Export ROI Settings
- ⑲ Import ROI Settings
- ⑳ Remove All ROIs

## 02 Workspace: ROI List & Analytics Panel

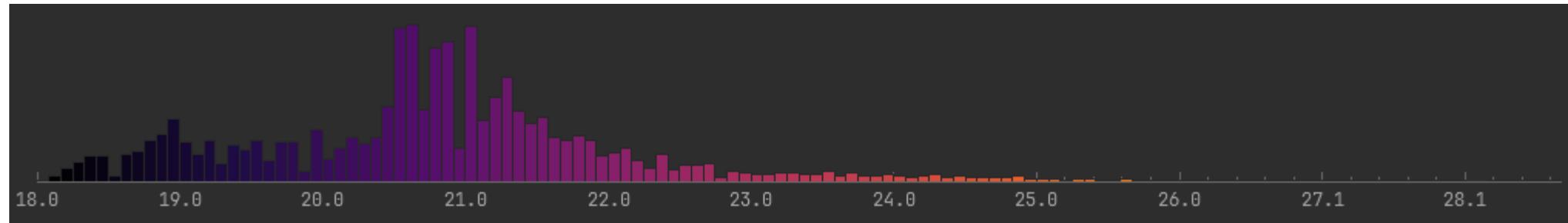


- ① Enable Alarm
- ② Alarm Threshold (Temp)
- ③ Alarm Color
- ④ Enable Alarm Sound
- ⑤ Display Min Temp
- ⑥ Display Avg Temp
- ⑦ Display Max Temp
- ⑧ Emissivity (0.0 – 1.0)
- ⑨ Ambient Temp Setting
- ⑩ Plot Min Temp Graph
- ⑪ Plot Avg Temp Graph
- ⑫ Plot Max Temp Graph

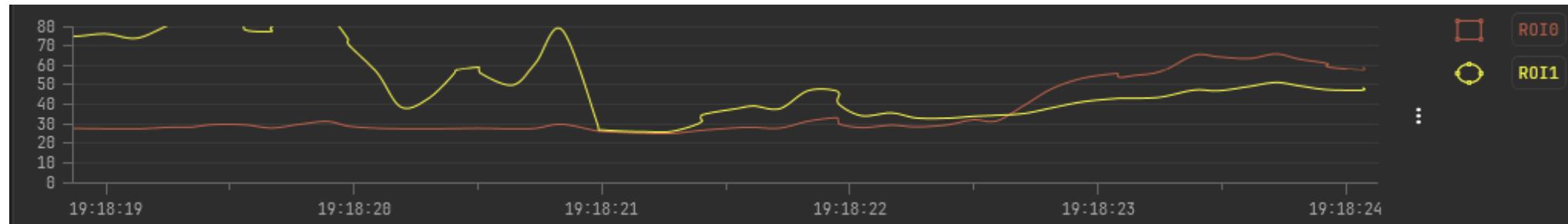
## 02 Workspace: ROI List & Analytics Panel



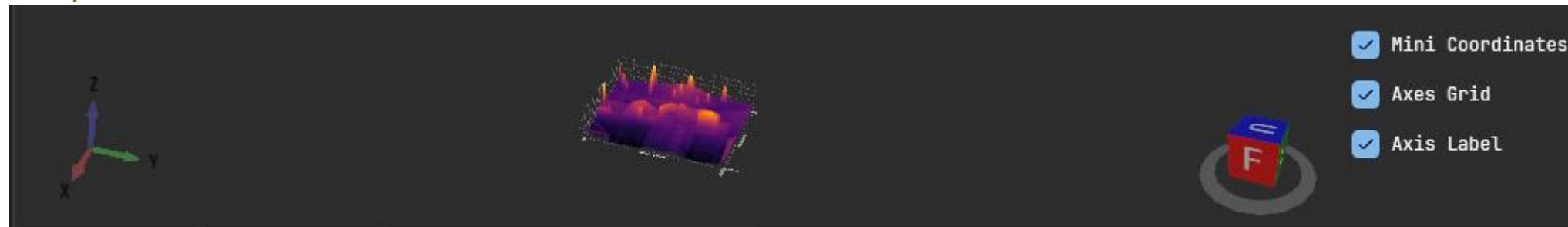
① Temporal



② Histogram



③ Spatial





**NEW PERSPECTIVE  
NEW VALUE**



THERMOEYE