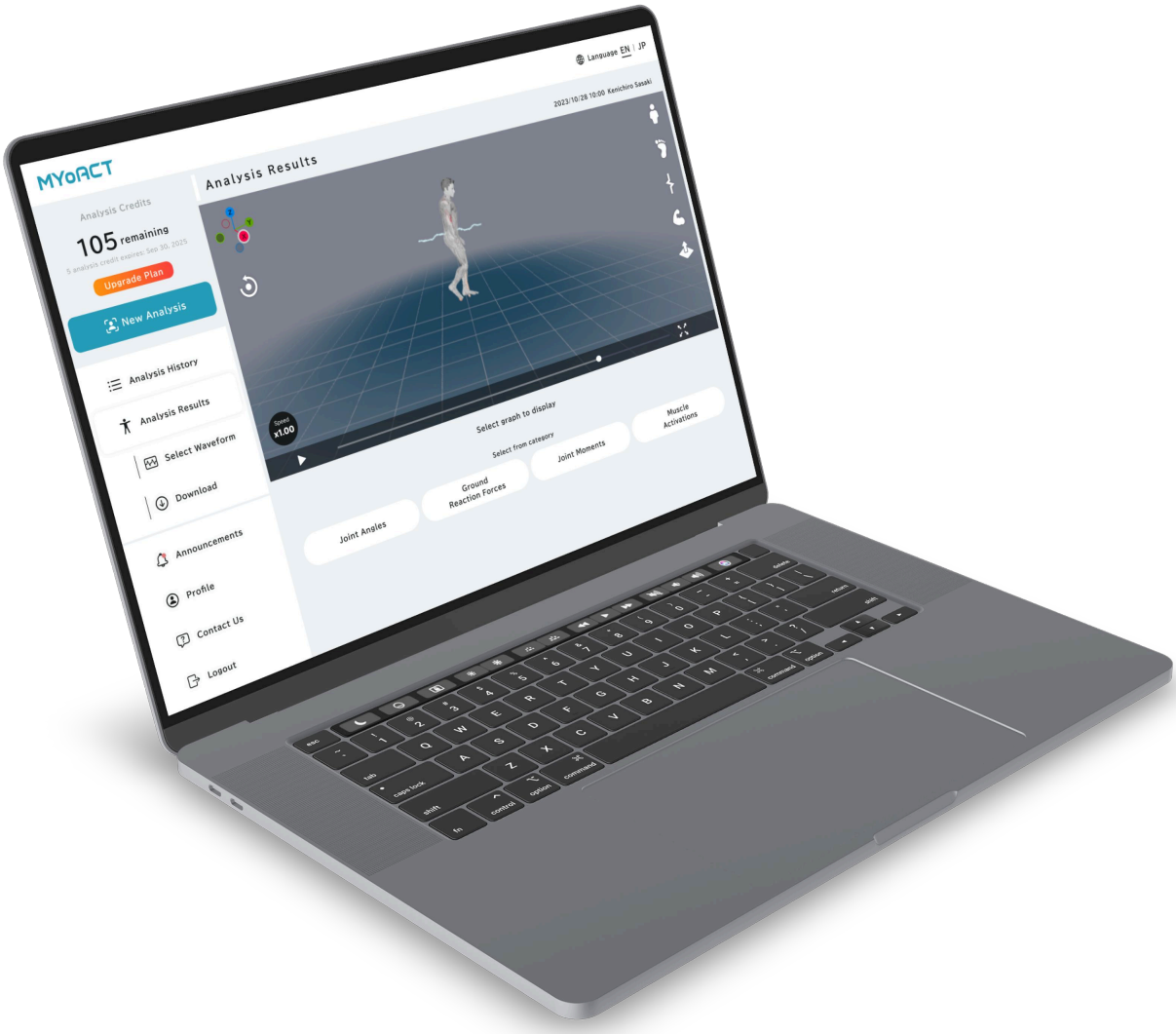
MYoACT

Basic Operation Manual

PC Operation Guide



ORGO

Table of Contents

Before Starting Analysis

♦What to prepare

Video for Analysis	・50 MB or less ・Must capture entire body ※Note: For gait (walking) analysis, it is recommended that the video shows the entire body, plus several walking steps. This will allow for more accurate analysis results.

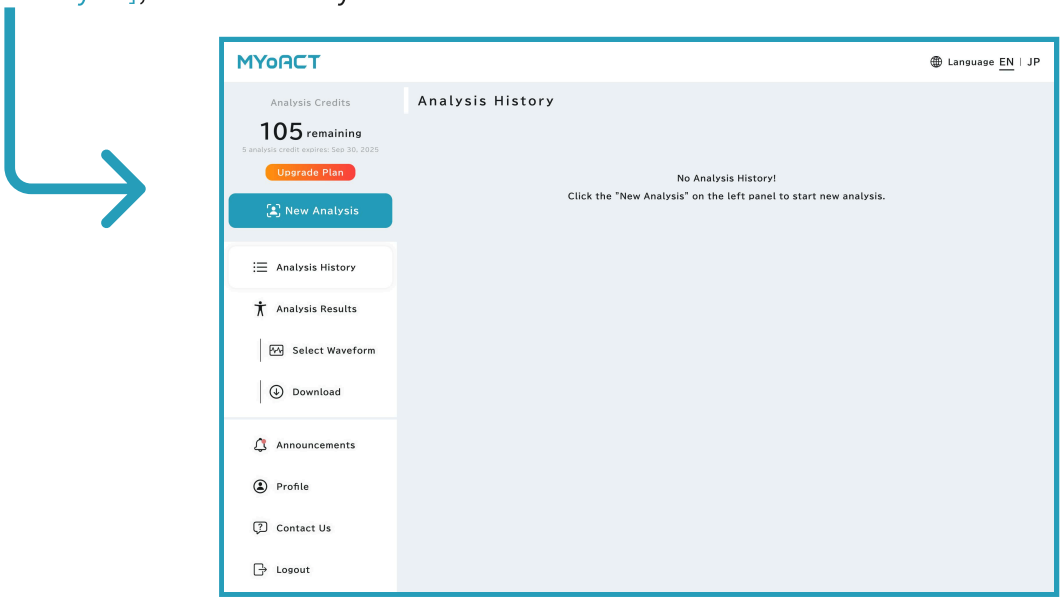
♦Tips for Filming

Distance	Please film from at least **3 meters away**. If the subject is too close, position calculation may be innacurate.
Lens	Do not use a wide-angle mode; please record in standard mode.
Zoom	Do not change the zoom level while recording. This can make position calculation unstable.
Camera Movement	If moving the camera, do so slowly. Rapid movements may reduce detection accuracy.
Angle	Film from an angle where the body parts and movement direction of the subject can be clearly seen.

Analysis Procedure

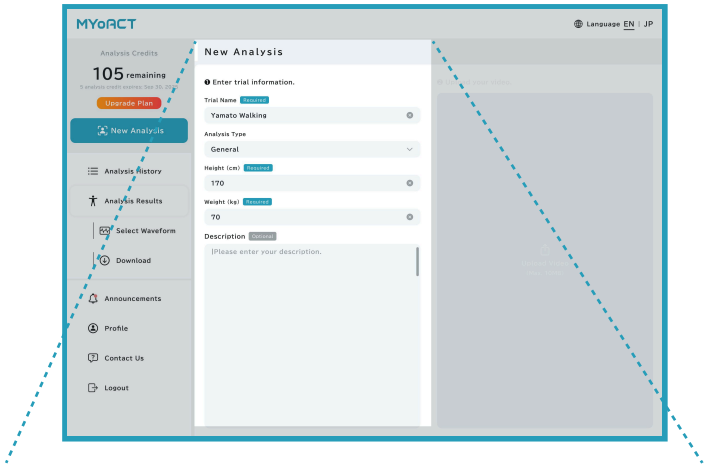
1.Logging In and Starting a New Analysis

1. Log in using the email address and password you set during registration. The following screen will appear.
2. From [New Analysis], start the analysis.



2.Enter Analysis Data

1. Click [New Analysis], and the screen indicated on the right will appear.
   Follow the steps indicated by ❶.



❶ Enter Analysis Data

■ Trial Name

Enter a name for the analysis data.
Since this will appear in the analysis history, we recommend using a name that can be easily distinguished from other data.

■ Select Analysis Type

Select either General or Gait.

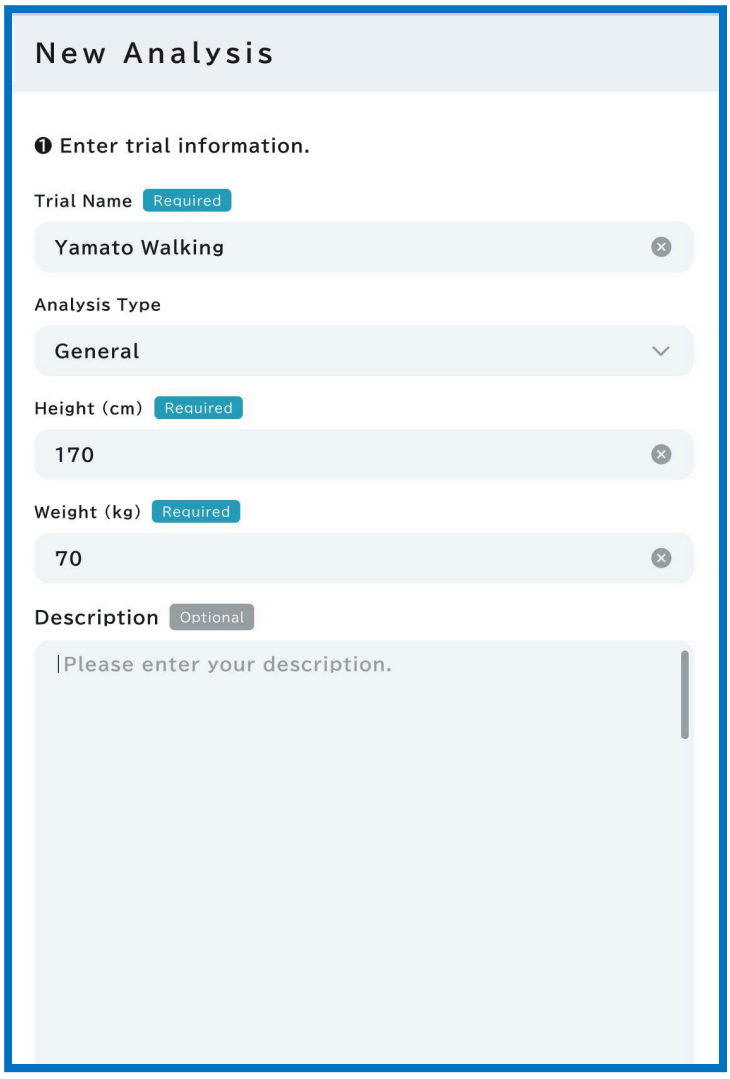
■ Height（cm） — Enter using half-width numbers

■ Weight（kg） — Enter using half-width numbers

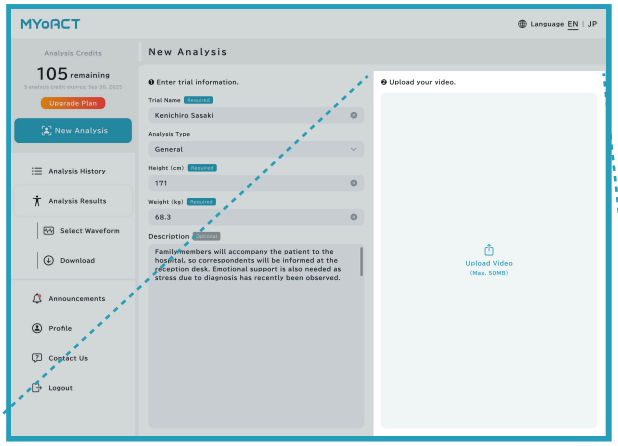
■ Description

Enter a description of the video being analyzed, or add notes as needed. If no additional explanation is required, this field may be left blank.

＊Note:
You must enter all required fields before proceeding to the next step (video upload).



2. Enter Analysis Data（Continued）

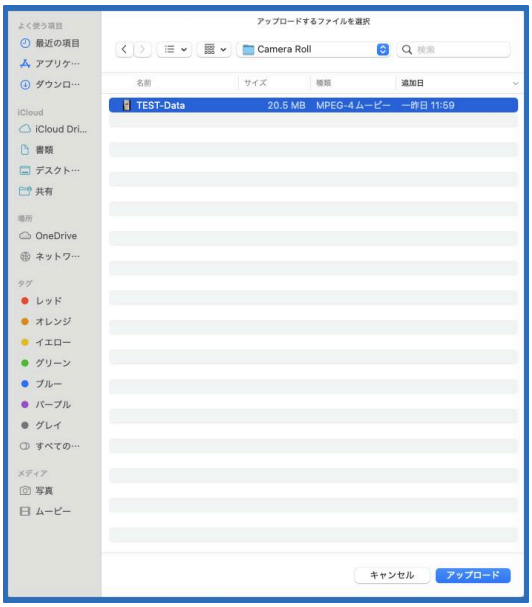


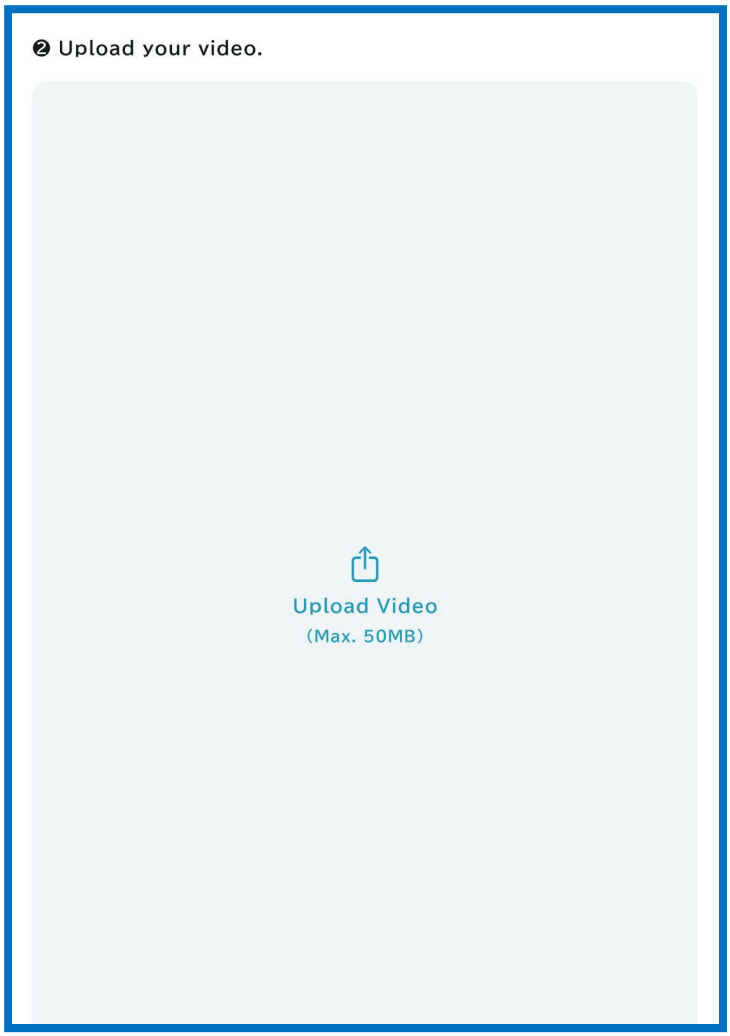
❷ Uploading a Video

Once all required fields are entered, you will be able to upload a video.

On the right side of the screen, click [Upload Video], then select the video you want to analyze from your PC.

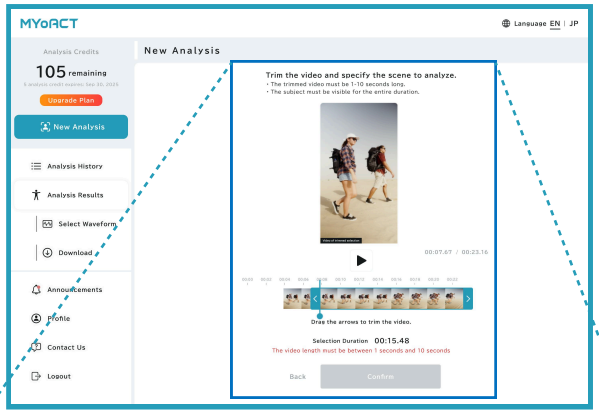
Example:





3.Edit Video (Trimming)

Once the video is uploaded, the editing screen on the right will open. You can then proceed with editing the video for analysis.



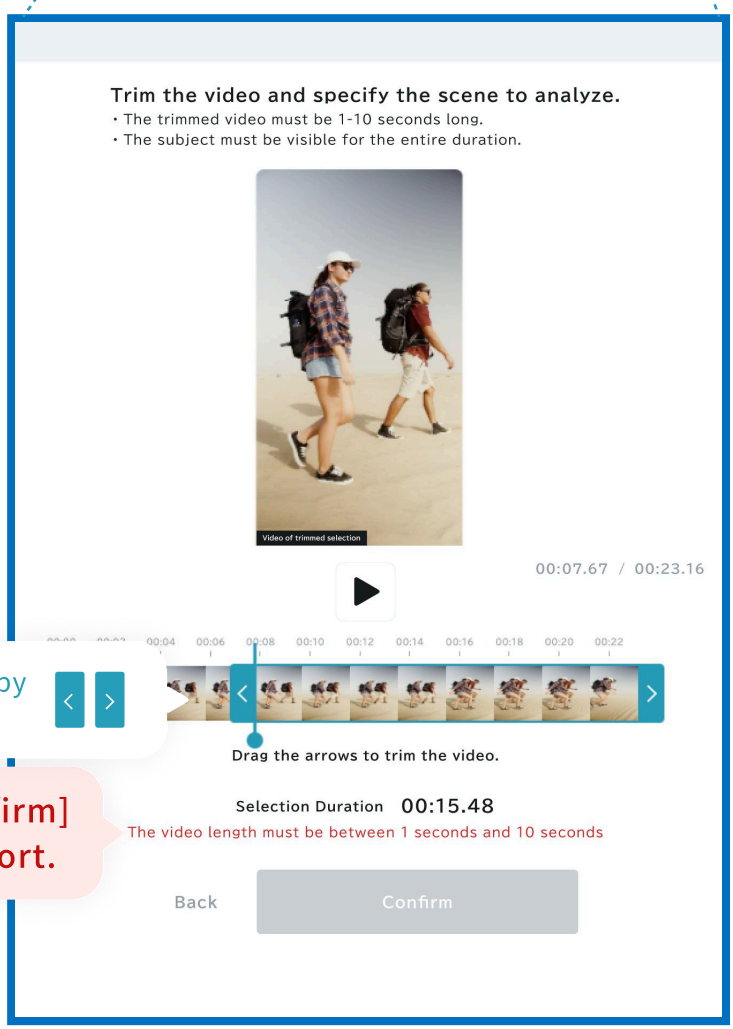
❶ Trimming the Video

Select and trim the portion of the video to be used for analysis.

■ Ensure that the video length is between 1 and 10 seconds.

The trimming range is shown between the blue arrows on the timeline.
Adjust the clip so that the extracted video is no shorter than 1 second and no longer than 10 seconds.

■ After trimming, play back the video and ensure that the subject of analysis is visible from the beginning to the end of the clip.

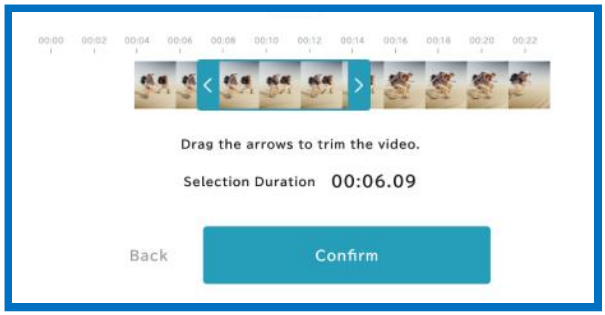


Adjust the video length by sliding the arrows

You will be unable to click [Confirm] if the video is too long or too short.

■ After completing the adjustment, select [Confirm] to continue.

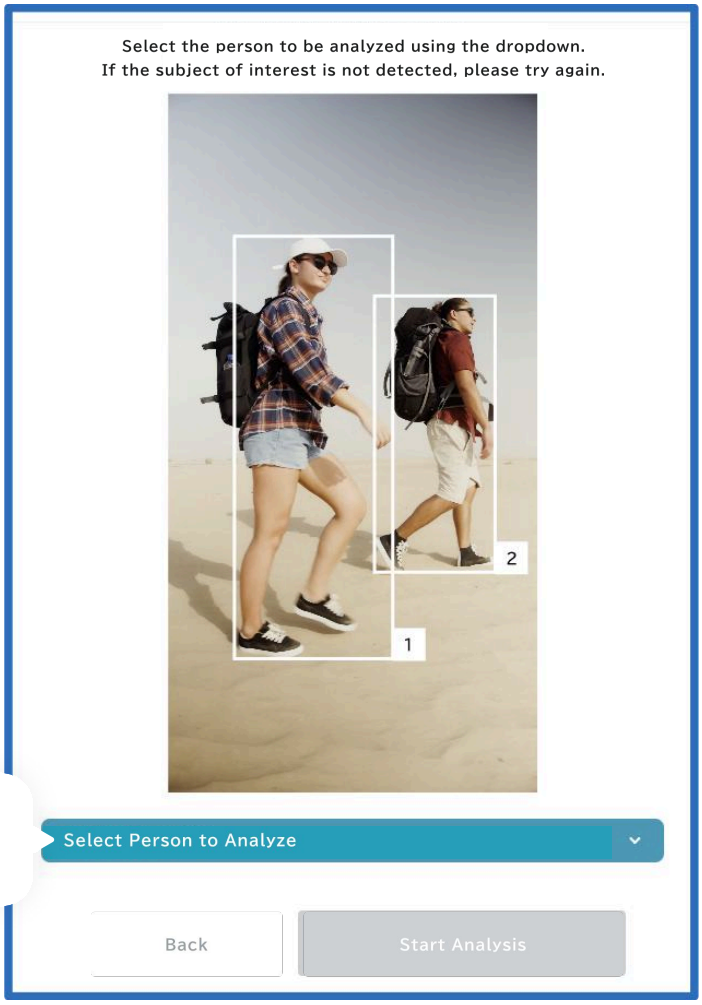
The system will then detect the subject from the trimmed video.
This process may take some time.



4. Edit Video (Select Subject)

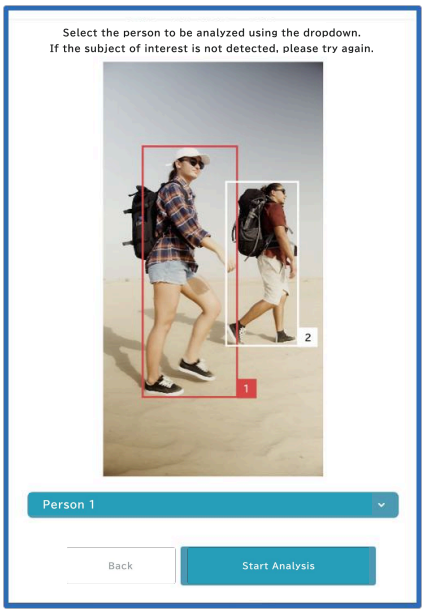
❷ Select Subject

The detected subjects will be outlined in white frames and assigned numbers.
From the **[Select Subject for Analysis]** list, choose the number corresponding to the subject you want to analyze.



From the drop-down list, choose the number of the subject you wish to analyze.

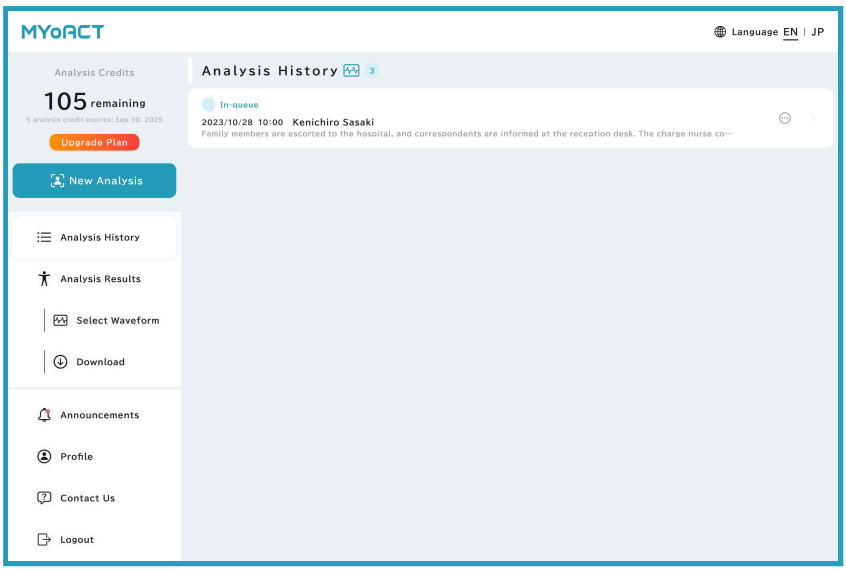
When you select a number from the **[Select Subject for Analysis]** list, the frame will turn red to indicate it has been selected.
Once the subject is correctly selected, click [Start Analysis].



5. During Analysis

■ Analysis History

The screen will switch to the “Analysis History” page.



❶ Number of Data Items Being Analyzed

If there are any analyses in progress, the number is displayed next to “Analysis History”. Once all analyses are finished, this number will return to 0.

❷ Analysis Stages and Progress

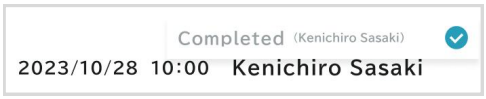
The analysis is carried out in stages, and a progress estimate is displayed.
Note that the required time will vary depending on factors such as the length of the video clip.

❶Pre-processing

❷Motion Estimation

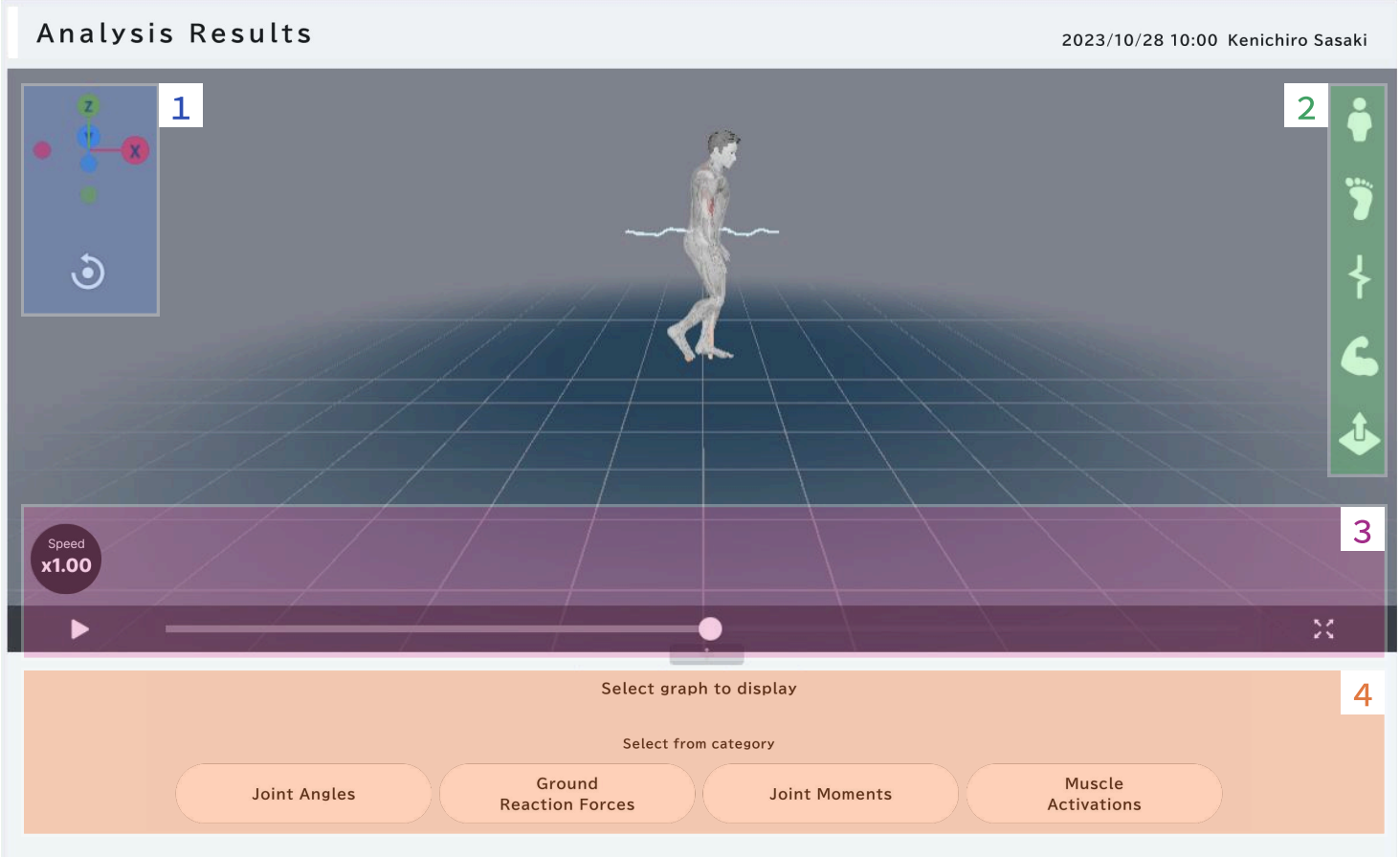
❸Musculoskeletal Simulation

❹Complete



When the analysis is complete, click on the trial name to view the results.

1. Analysis Results Page Overview



❶ Viewpoint Movement Tool

Adjusts the camera viewpoint.

❷ Display Toggle Tool

Switches the display between the 3D model, footprints, and ground reaction force.

❸ Playback Bar

Allows preview operations, playback speed adjustment, and fullscreen display.

❹ Waveform Area

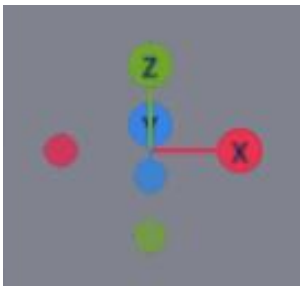
Selects and displays waveforms.

1. Analysis Results Page Overview

❶ Viewpoint Movement Tool

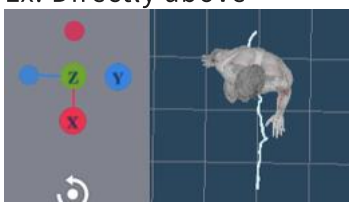
Adjusts the camera viewpoint.

■ Coordinate Axis



Use this to adjust the camera viewpoint.
Click one of the axis points (X, Y, Z) or drag within the display area to view the model from different angles.
You can zoom in and out by pinching on the PC trackpad.
If you do not have a trackpad, use the fullscreen display (see p.10).

Ex: Directly above



Ex: Lower right diagonal

■ Reset

Resets the viewpoint to its initial position.

❷ Display Toggle Tool

Switches the display between the 3D model, footprints, and ground reaction force.

■ Body

Toggles the display between the muscle model and the skeletal model.

■ Footprints

Toggles the footprint display on and off.

■ Center of Gravity Path

Displays the trajectory of the center of gravity. Easier to view when the skeletal model is selected. Toggles the display on and off.

■ Muscles

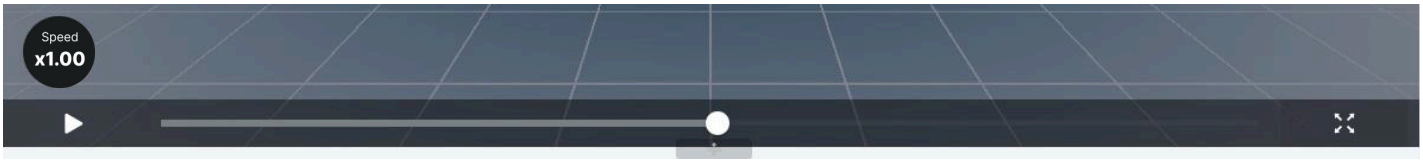
When the muscle model is displayed, active muscles are highlighted in red. Toggles the display on and off.

■ Ground Reaction Force

Toggles the ground reaction force display on and off.

❸ Playback Bar

Allows preview operations, playback speed adjustment, and fullscreen display.



■ Preview Playback

Play, pause, and move to a specific position using the seek bar.

■ Fullscreen Display

Enlarges the display area. The waveform area will be hidden.

■ Playback Speed

Each click switches the playback speed:

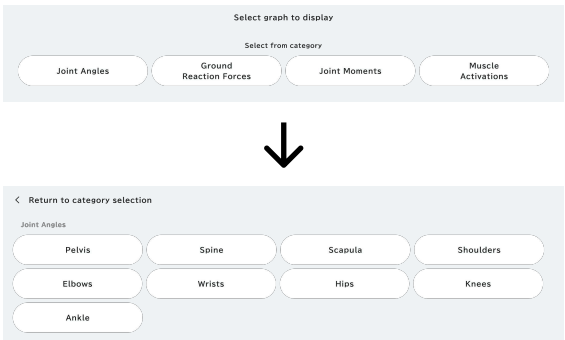
(Repeats)

❹ Waveform Area

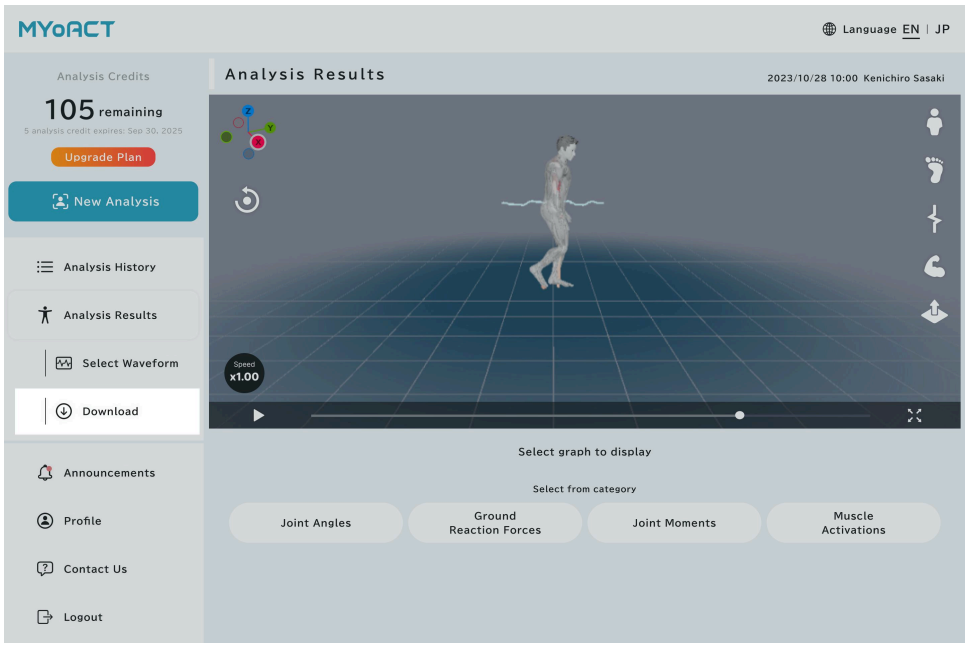
Select and display waveforms.

■ Waveform Selection

Select categories in order, from major to minor.
A list of waveforms belonging to the selected subcategory will be displayed.
Clicking on a waveform enlarges it, allowing you to check more detailed data.



Completed analysis data can be downloaded from the [Download] tab within the Analysis Results panel.



Data Formats

CSV	Time-series data (can be viewed in Excel, etc.)
C3D	3D marker + ground reaction force (usable with Visual3D, etc.)
TRC	Marker coordinate data (usable with OpenSim)
MOT	Ground reaction force data (usable with OpenSim)

The exported files can be imported into Excel or analysis software for report creation and detailed analysis.

Contact Us

If you have any questions or inquiries, please contact us at the email address below.

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