

2D/3D Video Motion Analysis System

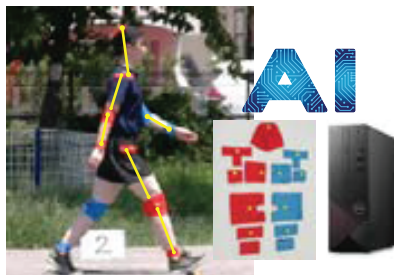
Frame-DIAS

Frame-DIAS has been a pioneer in video motion analysis for 28 years. Experience the additional features that have been added to meet the motion analysis needs of many researchers!



Coordinate Acquisition Artificial Intelligence (AI Digitizing)

AI Supported Digitizing



By combining AI-Based posture estimation with image recognition of specialized markers attached to the body, We have improved processing speed without compromising digitizing accuracy.

Uses special markers and computing method



Speed Up Video Processing (Video Cache Function)

Movie Cache

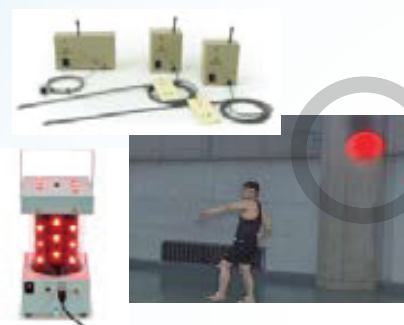


The "video cache function" eliminates the stress of digitizing tests. By caching the video used for testing and calibration on the hard disk, the load on processing is greatly reduced. Digitizing and frame-by-frame transfer can be performed comfortably even with 4K video. This is an indispensable feature as high-definition video is becoming mainstream in motion analysis.



Automatic Detection of Video Synchronization Points (Synchronization Point Detection Function)

Detection of Synchro-Point



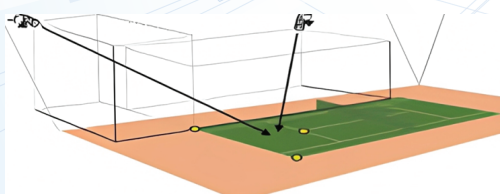
This function detects the red light projected by an LED synchronizer or other device during video recording and identifies it as the start frame in the software. This function is effective for synchronizing multiple images.

Detection Specification: Frames with a red color larger than 100 pixels in 60 x 60 px squares are detected as synchronization points.



Calibration with a Minimum of 3 Calibration Points (3-Dimensional CC Method)

3D CC-Method



The 3D CC method achieves calibration with (minimum) 3 calibration points. Calibration can be performed based on the 3D coordinate information of the "calibration point" and "camera" even in an environment where the measurement space cannot be entered.

A laser rangefinder (Sold Separately) is used to obtain 3D coordinates.

The interface and functions have been reviewed for further ease of use!

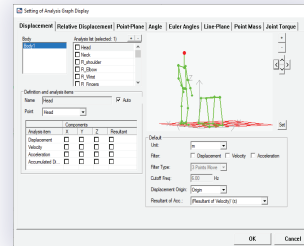
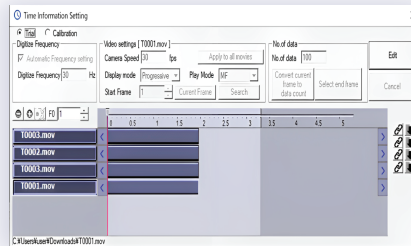
Application 64-bit

The software performance has been improved by making it exclusively for 64-bit OS. Windows 11 is also supported.



Improved Operation Screens

The layout of the time information setting screen and analysis setting.

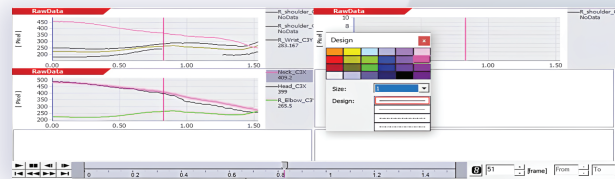


Upgrade Digitizing Functionality

A "Correct Digitizing" function has been added to allow editing of coordinates. Improved digitizing operability including color extraction for automatic digitizing and improved functionality in the magnified state of the binarized display.

Customize Graph Waveforms

Graph line thickness and line type have been increased to improve graph visibility during analysis.



Improved Quick Interpolation Function

In previous versions, only batch interpolation was available for coordinate interpolation, but this function can be used to interpolate digitized data in a selected arbitrary range.

Editing Imported Coordinate Value Data

Allows editing of imported 2D/3D/C3D coordinate value data.

Body1	Head	Neck	R_shoulder	R_elbow	R_wrist	R_finger	R_hip	R_knee	R_ankle	R_heel
T1		1.126, 0.268	0.566, 0.141	0.866, 0.1			0.218, 0.218	0.917, 0.257	0.935, 0.123	0
T2		1.125, 0.267	0.562, 0.144	0.864, 0.1			0.220, 0.220	0.917, 0.257	0.948, 0.138	0
T3		1.124, 0.265	0.561, 0.146	0.871, 0.1			0.220, 0.220	0.930, 0.271	0.943, 0.138	0
T4		1.122, 0.268	0.547, 0.151	0.870, 0.1			0.222, 0.222	0.930, 0.271	0.965, 0.159	0
T5		1.124, 0.265	0.566, 0.140	0.871, 0.1			0.220, 0.220	0.930, 0.271	0.955, 0.159	0
T6		1.122, 0.269	0.562, 0.148	0.870, 0.1			0.222, 0.222	0.930, 0.271	0.957, 0.170	0
T7		1.117, 0.291	0.568, 0.170	0.867, 0.1			0.223, 0.223	0.930, 0.271	0.957, 0.170	0
T8		1.120, 0.293	0.566, 0.174	0.876, 0.1			0.232, 0.232	0.935, 0.277	0.963, 0.187	0
T9		1.115, 0.295	0.553, 0.178	0.872, 0.1			0.228, 0.228	0.931, 0.281	0.967, 0.230	0
T10		1.124, 0.300	0.598, 0.229	0.869, 0.1			0.227, 0.227	0.938, 0.285	0.955, 0.244	0
T11		1.120, 0.322	0.581, 0.227	0.865, 0.1			0.241, 0.241	0.926, 0.307	0.943, 0.268	0

Increased Maximum Number of Frames and Stick Connections

The maximum number of digitized frames has been increased from 36,000 to 2,16,000. This allows for the analysis of long test videos. At the same time, the maximum number of stick picture connections has been increased to 100.

System Requirements

Specs of Computer

CPU	Intel i5 1.6hz or Higher Recommended
3D-CC Method Supported OS	Windows10 (64bit) or later (Windows 11 Supported)
RAM	4GB or More Recommended
Graphics Recommended	[Display Resolution] 1024x768 or Higher [VRAM] Dedicated Graphics Memory
HDD Free Space	10GB or More (when using video cache function)



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