zebris Medical GmbH

zebris FDM 3.2.x

Release Notes

Release Notes zebris FDM 3.2.x

describes included functions up to and including version 3.2.6.
Illustrations in these release notes may differ.

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Please always specify the serial number of the product when making inquiries!

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1 Conventions and symbols used

In these Release Notes the following conventions are used.
Warnings are marked as follows:

Warnings indicate a potential hazard to the health and safety of users and/or patients. Warnings explain the nature of the hazard and how it can be avoided.

Notes are identified as follows:

Notes indicate a potential hazard that can lead to damage or destruction of the device. The notes explain the type of hazard and how it can be avoided.

Notes that are relevant to the measurement procedure are marked in this way.

2 General

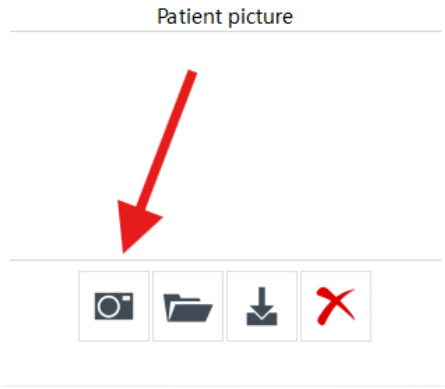
2.1 System requirements

The current PC specifications can be found on our homepage at:
https://www.zebris.de/en/service/pc-specifications

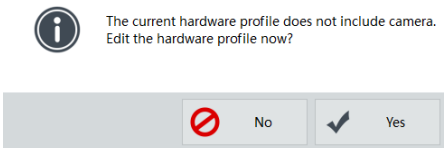
Before each installation, check whether your measurement PC meets the current system requirements.

3 Database

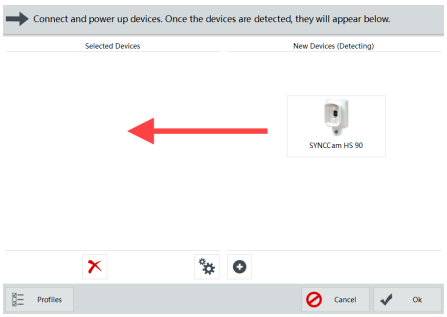
3.1 Patient information



You can use the "Take picture with camera" function to take a picture of the patient with a connected camera and save it in the patient file.



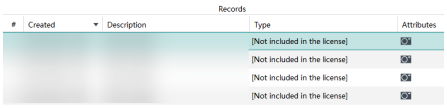
If no camera has yet been added to the hardware profile, you will be forwarded directly to the hardware settings by clicking on "Yes":



You can then select the desired camera and setting and take the patient image after clicking on "Ok".

3.2 Not-included record types

From 3.2.x it is possible to open the view and report of recordings of all measurement types, even if the corresponding measurement modules are not included in the license.



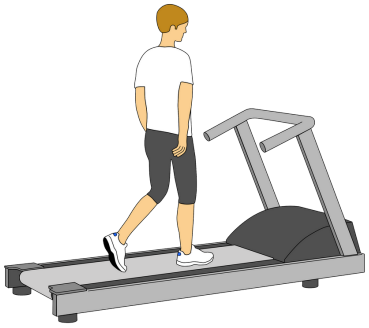
Previously, unknown recording types were displayed with the message [Not included in your license] and could not be opened.

4 Modules

The following changes relate to individual measurement modules:

4.1 Gait 3D Kinematics

zebris FDM supports markerless tracking with the zebris 3D camera.



This allows you to add kinematic parameters to your Gait Analysis FDM-T measurements.

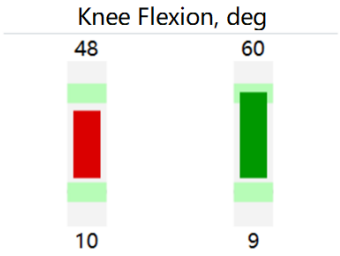
In the measurement interface and the view, you can choose between different illustrations:

2D video image with superimposed skeleton

Mirrored video image

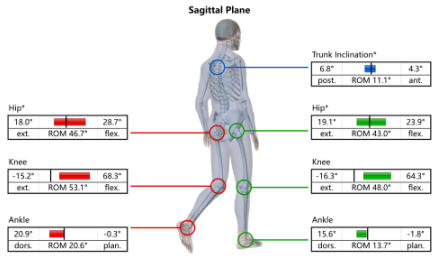
Modules

Avatar in male and female version

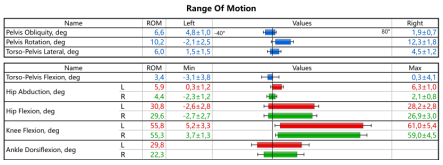


During the measurement, additional live parameters with minimum and maximum angles are displayed alongside the curves.

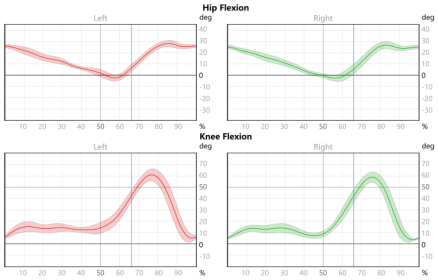
The evaluation of the kinematic parameters can be found in the report under the 3D kinematics element. Included are:



Average ROM as well as minima and maxima per gait cycle



In tabular form with standard deviations



Average curves with standard deviation for the duration of a gait cycle

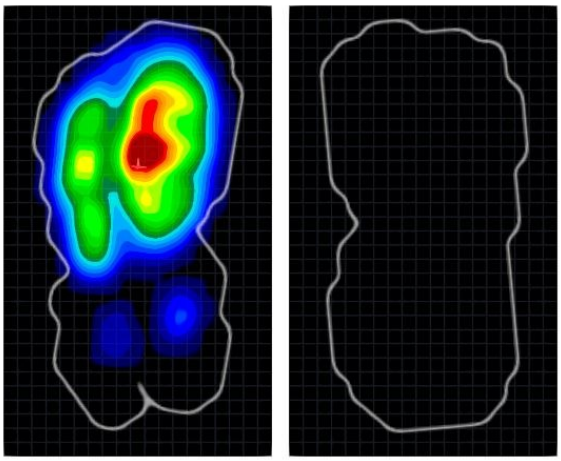
A selection of the tracking data can be exported via Database > Export > CSV (raw data) for individual further processing.

The kinematic measurements may differ from the actual values due to the clothing, body constitution, and the measurement method.

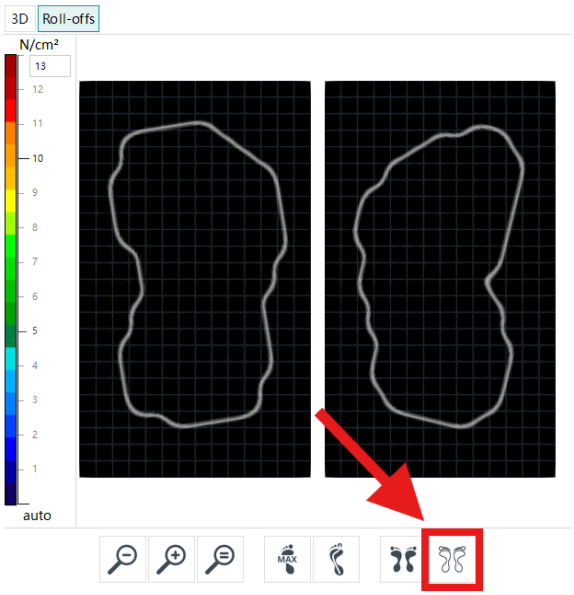
4.2 Gait Analysis FDM-T

The automatic step detection has been improved.

4.3 Running Analysis



The placement of the pressure prints in the reference shape from the walking calibration has been improved.



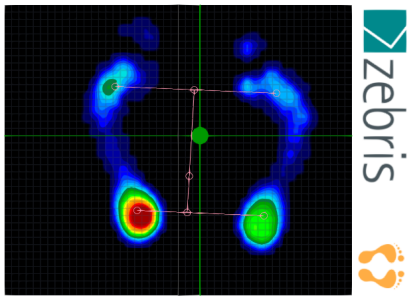
If the shape of the reference contact is laterally reversed, this can be corrected manually using this button below the roll off view.

4.4 Stance Analysis

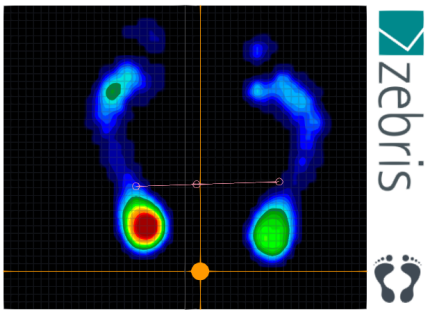
As with gait analysis measurements, the measurement interface can be customized using toggle buttons on the side navigation bar:

The platform view, video image and curves can be shown and hidden individually.

Changes are made more visible in the plattform view of stance analysis records:



If the orientation of the platform does not correspond to the default setting, the icon is displayed in orange.



If the dividing cross is moved, it is also colored orange.

5 Bugfixes

The following is a list of fixed errors since the last software version.

Patch	Description	SUP
3.2	Gait analysis: Step definition: After reassignment of individual contacts, the newly colored shape is displayed directly	
	Gait analysis FDM: Revision of automatic step detection for measurements with children	SUP-7874
	The Italian translation has been revised.	SUP-7789
	The Spanish translation has been revised.	SUP-7443
3.2.2	Gait analysis: Report: Adding COP diagrams separately is not possible	
	Stance: View: Software crashes when pressing "Show/ Hide COP" Button	
	Gait Analysis FDM-T: Software crashes when changing from 1x1 report to default report which contains kinematic elements	
	Gait analysis FDM-T: LiveGait: Stabilization of the displayed values by using average values	SUP-7974
	Japanese translation restored	SUP-7966
	German translation updated	SUP-7964
	View: Selection of playback speed optimized	SUP-7962
	Gait analysis FDM-T: Hiding the platform view is possible again	SUP-7963
3.2.4	3D Kinematics: Add missing dlls to installer	
3.2.6	3D kinematics: Angle calculation revised and additional angles added to the live display	
	3D kinematics: Simultaneous synchronization of 3D camera and SYNCCam when used with pressure platform	
	3D kinematics: Preview added to device settings	
	3D kinematics: Error in the alignment of the 3D coordinate system corrected	
	1:1 report: Customization is possible again	
	Gait analysis FDM-T: Platform view shown again by default	
	Installation: Blocking of 32-bit dll by Anit virus program is prevented	
	SYNCCam HS: Delay during synchronization fixed	
	Running analysis: Step detection optimized for reversed direction	SUP-8131
	Program settings: Report: Unused information hidden	SUP-7607