

Stance analysis | Gait analysis | Running analysis | Foot scan

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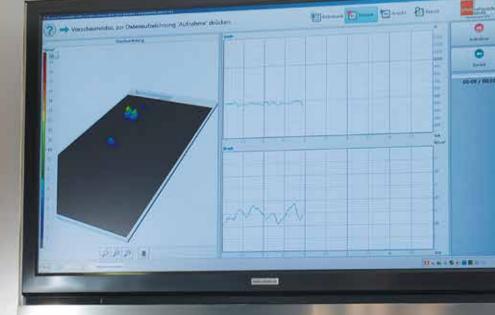
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Foot scanner, pressure measurement plate, treadmill – three systems, one piece of software.

The SCHEINWORKS measurement and analysis systems comprise different hardware and software modules that can be combined and arranged to suit your requirements using just one piece of software.

All the modules are intended to provide individualised patient care through:

- Professional measurement of movement or stance
- Precise analysis

Use our 2D foot scanner with depiction of the sole of the foot in original size as a medical history tool and a construction basis for your individual insole provision.





Analyse the movement or stance of your patient with a pressure measurement plate or treadmill with integrated pressure measurement plate to

plan, document and optimise individual care. Various camera modules are available for extended analysis.

Expand your customer base and use the high-speed cameras for running/gait analyses.



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Gait training		12–13
Accessories	• Cameras • Stands • Contrast plates • PC systems	14–15



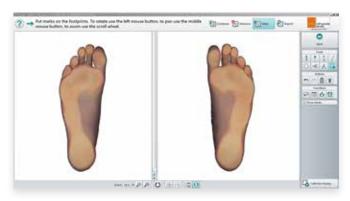


Record the sole of your customer's foot as a digital scan within a few seconds with the SCHEINWORKS DigiPED.

Among other things, the software allows the length and breadth measurements to be ascertained or significant points to be marked and documented. If a camera is added to the scanner, analysis and documentation of the positioning of the foot, in particular the heel, are also possible.

For your insole construction you can use a 1:1 depiction of the foot scan directly on the screen or print it out (A3 printer required).

The scanned-in footprints can also be used as the construction basis for our insole construction programme SCHEINWORKS construction. http://construction.scheinworks.de



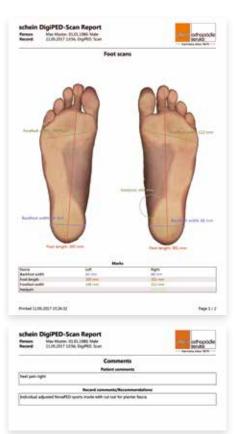
	DigiPED foot scanner Art. no. 032211-100
Measurements (L x B x H)	65.4 x 44.4 x 11.3 cm
Weight	Approx. 16.6 kg
Scan area (L x B)	42.2 x 30.5 cm
Max. user weight	Approx. 200 kg
Scan time	Approx. 8 sec.
PC interface	High-speed USB 2.0
Power supply	24 V DC
Power consumption	Standby 8W, max. < 36W
Lamp type	Cold cathode lamp
Colour (exterior/interior)	Light grey/Grey



Presentation pillar

If you do not want to integrate the scanner into the floor, we recommend a presentation pillar for the measurement or sales room.

With the stand, the scanner is protected and simultaneously elegantly integrated. The mainsconnected pillar serves as a secure work surface for a laptop or touch-screen PC.







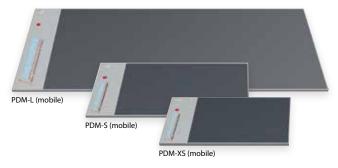
Pressure measurement plates



Stance, gait and roll analyses can be quickly and easily carried out with the SCHEINWORKS pressure measurement plates. They record the static and dynamic pressure distribution below the feet when standing or walking, barefoot or with shoes.

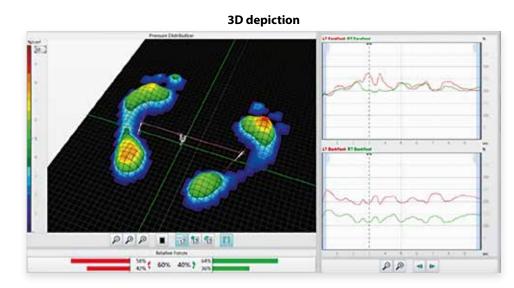
The pressure measurement plates have low construction height and are available in four sizes, in a stationary and mobile version. You achieve maximum flexibility with the mobile version: this is powered by an integrated battery, while the data transfer takes place via a Bluetooth interface.

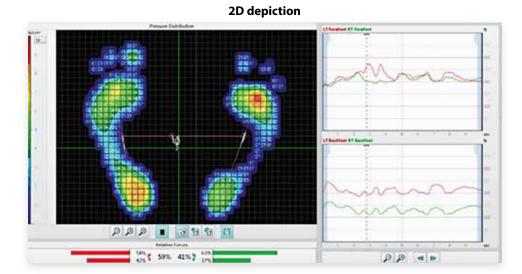
To increase the size of the sensor area and use it as a gait route, two platforms of the same type can be combined with the pressure measurement plates PDM-L (mobile), FDM-1.5 and FDM-2.

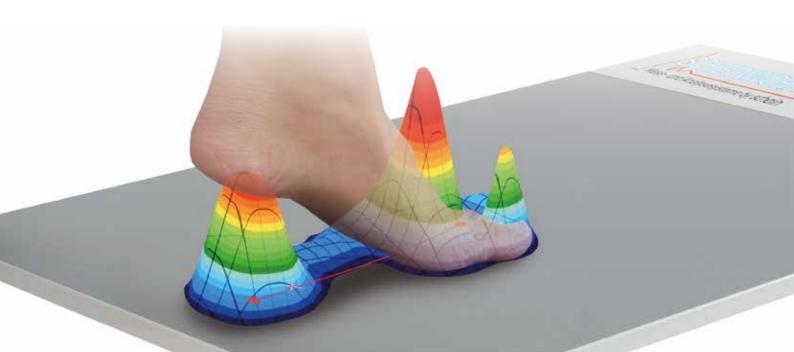




	Pressure measurement plate PDM-XS Art. no. 032115-192	Pressure measurement plate PDM-S Art. no. 032115-256	Pressure measurement plate PDM-L Art. no. 032115-143	Pressure measurement plate PDM-XS <mark>mobile</mark> Art. no. 032115-319
Measurements (L x B x H)	57.0 x 40.0 x 1.5 cm	71.0 x 40.0 x 1.5 cm	137.0 x 53.5 x 1.5 cm	57.0 x 40.0 x 1.5 cm
Weight	3.51 kg	4.37 kg	11.4 kg	3.56 kg
Sensor area (L x B)	40.6 x 33.9 cm	54.2 x 33.9 cm	122.0 x 47.4 cm	40.6 x 33.9 cm
Number of sensors	1920	2560	8064	1920
Resolution	1.4 sensors/cm ² (1/3")	1.4 sensors/cm ² (1/3")	1.4 sensors/cm ² (1/3")	1.4 sensors/cm ² (1/3")
Measurement frequency	200 Hz	200 Hz	120 Hz	200 Hz
Measurement area	1–120 N/cm ²	1–120 N/cm ²	1–120 N/cm ²	1–120 N/cm ²
Precision	±5% of final value	±5% of final value	±5 % of final value	±5 % of final value
Sensor type	Capacitive	Capacitive	Capacitive	Capacitive
PC interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0/🚯 Bluetooth
	000 210			obb 210, O Blactooth
	Pressure measurement plate PDM-S mobile Art. no. 032115-325	Pressure measurement plate PDM-L <mark>mobile</mark> Art. no. 032115-380	Pressure measurement plate FDM-1.5 Art. no. 032115-144	
Measurements (L x B x H)	Pressure measurement plate PDM-S mobile Art. no. 032115-325	Pressure measurement plate PDM-L mobile	Pressure measurement plate FDM-1.5	Pressure measurement plate FDM-2
	Pressure measurement plate PDM-S mobile Art. no. 032115-325	Pressure measurement plate PDM-L <mark>mobile</mark> Art. no. 032115-380	Pressure measurement plate FDM-1.5 Art. no. 032115-144	Pressure measurement plate FDM-2 Art. no. 032115-150
Weight	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm
Weight Sensor area (L x B)	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm 4.42 kg	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm 11.5 kg	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm Approx. 16.5 kg	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm Approx. 25 kg
Weight Sensor area (L x B) Number of sensors	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm 4.42 kg 54.2 x 33.9 cm	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm 11.5 kg 122.0 x 47.4 cm	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm Approx. 16.5 kg 144.0 x 56.0 cm	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm Approx. 25 kg 203.0 x 56.0 cm
Weight Sensor area (L x B) Number of sensors Resolution	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm 4.42 kg 54.2 x 33.9 cm 2560 1.4 sensors/cm ² (1/3")	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm 11.5 kg 122.0 x 47.4 cm 8064	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm Approx. 16.5 kg 144.0 x 56.0 cm 11264 1.4 sensors/cm ² (1/3") 100 Hz,	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm Approx. 25 kg 203.0 x 56.0 cm 15360 1.4 sensors/cm ² (1/3") 100 Hz,
Weight Sensor area (L x B) Number of sensors Resolution Measurement frequency	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm 4.42 kg 54.2 x 33.9 cm 2560 1.4 sensors/cm ² (1/3")	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm 11.5 kg 122.0 x 47.4 cm 8064 1.4 sensors/cm ² (1/3")	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm Approx. 16.5 kg 144.0 x 56.0 cm 11264 1.4 sensors/cm ² (1/3")	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm Approx. 25 kg 203.0 x 56.0 cm 15360 1.4 sensors/cm ² (1/3")
Weight Sensor area (L x B) Number of sensors Resolution Measurement frequency Measurement area	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm 4.42 kg 54.2 x 33.9 cm 2560 1.4 sensors/cm ² (1/3") 200 Hz	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm 11.5 kg 122.0 x 47.4 cm 8064 1.4 sensors/cm ² (1/3") 120 Hz	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm Approx. 16.5 kg 144.0 x 56.0 cm 11264 1.4 sensors/cm ² (1/3") 100 Hz, optionally 200 Hz or 300 Hz	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm Approx. 25 kg 203.0 x 56.0 cm 15360 1.4 sensors/cm ² (1/3") 100 Hz, optionally 200 Hz or 300 Hz
Measurements (L x B x H) Weight Sensor area (L x B) Number of sensors Resolution Measurement frequency Measurement area Precision Sensor type	Pressure measurement plate PDM-S mobile Art. no. 032115-325 71.0 x 40.0 x 1.5 cm 4.42 kg 54.2 x 33.9 cm 2560 1.4 sensors/cm ² (1/3") 200 Hz 1–120 N/cm ²	Pressure measurement plate PDM-L mobile Art. no. 032115-380 137.0 x 53.5 x 1.5 cm 11.5 kg 122.0 x 47.4 cm 8064 1.4 sensors/cm ² (1/3") 120 Hz 1-120 N/cm ²	Pressure measurement plate FDM-1.5 Art. no. 032115-144 158.0 x 60.5 x 2.1 cm Approx. 16.5 kg 144.0 x 56.0 cm 11264 1.4 sensors/cm ² (1/3") 100 Hz, optionally 200 Hz or 300 Hz 1–120 N/cm ²	Pressure measurement plate FDM-2 Art. no. 032115-150 212.2 x 60.5 x 2.1 cm Approx. 25 kg 203.0 x 56.0 cm 15360 1.4 sensors/cm ² (1/3") 100 Hz, optionally 200 Hz or 300 Hz 1–120 N/cm ²







Treadmills

All SCHEINWORKS treadmills include integrated pressure measurement plates that allow pressure distribution when walking and running to be measured and analysed. The software calculates various gait parameters, which are depicted clearly in the software and report.

The SCHEINWORKS treadmills are available in different versions for various areas of application:

- MOBILE
- SPORT
- OT-REHA



The MOBILE treadmill is particularly suited to small spaces and mobile use due to its size and weight. It can be assembled and disassembled in just a few movements. It is delivered fully assembled and can be put into operation immediately.



Technical data

Treadmill FDM-TLR3-3i mobile Art. no. 032110-012

Dimensions (L x B x H)	160 x 80 x 127 cm
Dimensions, folded (L x B x H)	160 x 80 x 35 cm
Step height	19 cm
Weight	Approx. 75 kg
Running surface (L x B)	123 x 44 cm
Speed	0.8–14 km/h in 0.1 km/h steps
Motor	1.47 kW
Gradient	0%, not adjustable
Max. user weight	110 kg
Colour	White/Grey
Sensor area (L x B)	94.8 x 40.6 cm
Number of sensors	5376
Resolution	1.4 sensors/cm ² (1/3")
Measurement frequency	100 Hz
Measurement area	1–120 N/cm ²
Precision	±5% of final value
Sensor type	Capacitive
PC interface	USB 2.0
	Dimensions, folded (L x B x H) Step height Weight Running surface (L x B) Speed Motor Gradient Max. user weight Colour Sensor area (L x B) Number of sensors Resolution Measurement frequency Measurement area Precision



The SPORT treadmill is ideal for sport purposes due to its high stability and potential speed of up to 24 km/h.



		Treadmill FDM-TDSL-3i <mark>sport</mark> Art. no. 032110-116	Treadmill sport FDM-TDS-3i <mark>sport</mark> Art. no. 032110-120
Treadmill	Dimensions (L x B x H)		200 x 92 x 150 cm
	Step height		18 cm
	Weight		Approx. 200 kg
	Running surface (L x B)		150 x 50 cm
	Speed		0.2–24 km/h in 0.1 km/h steps
	Motor		2.2 kW
	Gradient		-2-15% in 0.5% steps
	Max. user weight		150 kg
	Colour		Silver
Sensor plate	Sensor area (L x B)	94.8 x 40.6 cm	108.4 x 47.4 cm
	Number of sensors	5376	7168
	Resolution	1.4 sensors/cm ² (1/3")	1.4 sensors/cm ² (1/3")
	Measurement frequency	100 Hz	120 Hz, optionally 240 Hz
	Measurement area	1–120 N/cm ²	1–120 N/cm ²
	Precision	±5 % of final value	±5 % of final value
	Sensor type	Capacitive	Capacitive
	PC interface	USB 2.0	USB 2.0





The OT-REHA treadmill is suitable for gait analysis as well as gait training. To offer your customers improved safety, it can also be fitted with long hand rails, a safety stirrup with fall protection, and arm supports as required. You have the choice between two sizes of measurement area and resolutions for the integrated pressure measurement plate. The OT-REHA medical treadmills also fulfil all standard requirements for use in clinical environments due to their technical design.

Optional

h/p/cosmos



Long hand rail Art. no. 032154-000



Arm supports Art. no. 032155-000

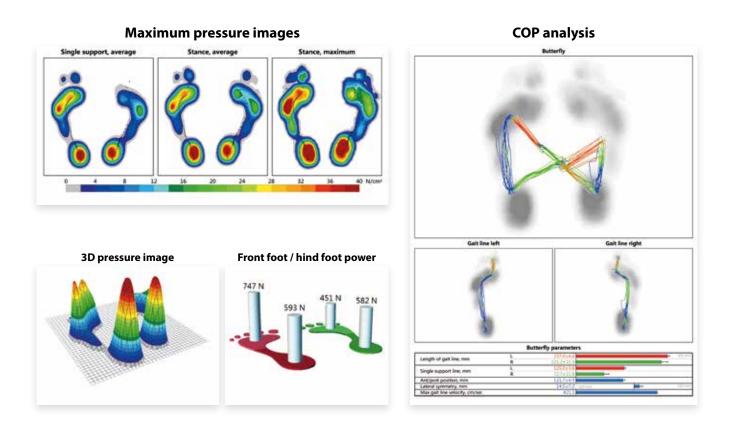


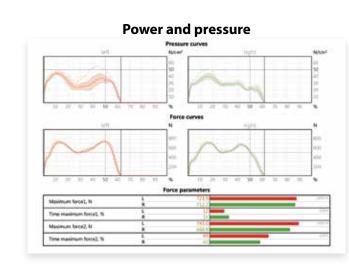
Safety stirrup with fall protection incl. chest harness Art. no. 032149-000

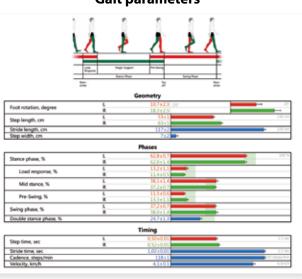
		Treadmill FDM-THPL-S-2i OT-Reha	Treadmill FDM-THPL-S-3i OT-Reha	Treadmill FDM-THPL-M-2i OT-Reha medical	Treadmill FDM-THPL-M-3i OT-Reha medical
		Art. no. 032110-041	Art. no. 032110-042	Art. no. 032110-043	Art. no. 032110-044
Treadmill	Dimensions (L x B x H)	210 x 85 x 130 cm			
	Step height			23 cm	
	Weight	Approx. 211 kg			
	Running surface (L x B)	150 x 50 cm			
	Speed	0.5–18 km/h in 0.1 km/h steps			
	Motor	2.2 kW			
	Gradient	0-20 % in 0.1 % steps			
	Max. user weight	200 kg			
	Colour	RAL 9010 pure white			
Sensor plate	Sensor area (L x B)	91.4 x 49.5 cm	94.8 x 47.4 cm	91.4 x 49.5 cm	94.8 x 47.4 cm
	Number of sensors	2808	6772	2808	6772
	Resolution	0.6 sensors/cm ² (1/2")	1.4 sensors/cm ² (1/3")	0.6 sensors/cm ² (1/2")	1.4 sensors/cm ² (1/3")
	Measurement frequency	120 Hz	120 Hz, optionally 240 Hz	120 Hz	120 Hz, optionally 240 Hz
	Measurement area	1–120 N/cm ²	1–120 N/cm ²	1–120 N/cm ²	1–120 N/cm ²
	Precision	±5 % of final value	±5 % of final value	±5 % of final value	±5% of final value
	Sensor type	Capacitive	Capacitive	Capacitive	Capacitive
	PC interface	USB 2.0	USB 2.0	USB 2.0	USB 2.0

Treadmill standard report

The sensor plate integrated into all treadmills offers analysis of the pressure, power, time and step parameters and evaluation of gait symmetry as standard. With a click of the mouse, the measurement results are depicted on the computer and can be printed in colour.







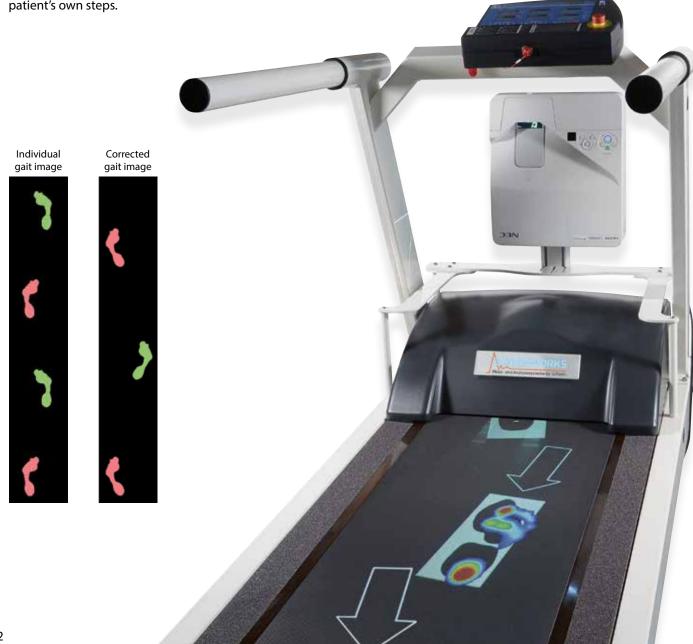
Gait parameters



SCHEINWORKS 'Gait Training' is a system based on the SCHEINWORKS Gait Analysis and has been conceived for training in case of neurological or orthopaedic gait abnormalities. A repeated comparative gait analysis serves as a performance review.

Gait training with visual gait specifications

Gait parameters such as step length, step width and foot angle are recorded by the gait analysis and individually corrected to suit the therapy targets. The corrected steps (or successively corrected steps) are projected onto the walking/running surface via a projector, and should then be copied by the patient's own steps.



Virtual Training

With the 'Virtual Training' module, the concentration and automation of the gait are trained while walking. This takes place via a virtual walking environment in which various tasks that require continuous gait variation must be completed. The training can be individually adjusted to suit the patient through the possibility of selecting different levels.

With the help of the optional editor, you can design your own training levels.

The treadmill FDM-TLR3-3i mobile is not suitable for this module.

Gait Training module (step projection)

Gait Training module (step projection)

Virtual Training module (Forest walk)

Virtual Training module (Forest walk)

for sport treadmills

for OT-Reha treadmills

Using this module with a monitor of at least 40 inches is recommended. The use of a projector is also possible.

Art. no. 032136-000

Art. no. 032136-040

Art. no. 032135-000

Art. no. 032135-001







Camera and light modules



For additional analysis, camera modules can be added to the treadmills and pressure measurement plates. So that the camera images can be assigned to the corresponding pressure measurement images, the camera and pressure measurement plate are synchronised.

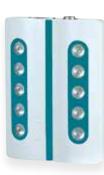
The cameras are available in HD or as a high-speed version. To achieve ideal illumination for good image quality, additional lighting units or cameras with an integrated lighting unit from power LEDs are available. The multifunctional stands can additionally help with the assembly of camera and light modules.



HD camera (SYNCCam)



HD webcam with integrated lighting unit (SYNCLightCam) HD webcam with integrated lighting unit (HS-SYNCLightCam) Similar to image



LED lighting unit (SYNCLight)

Portable multifunctional stand Art. no. 032133-000

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Multifunctional stand with base plate **Art. no. 032133-001**

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	SYNCCam Art. no. 032145-001	SYNCLightCam Art. no. 032146-001	HS-SYNCLightCam Art. no. 032148-001	SYNCLight Art. no. 032132-000
Approx. dimension (B x H x T)	11 x 12.5 x 5 cm	22 x 18.3 x 8 cm	22 x 18.3 x 8 cm	15.5 x 21 x 3.8 cm
Weight	190 g	800 g	800 g	640 g
Measurement frequency	30 Hz	30 Hz	30/60/100/120 Hz	
Camera	HD	HD	High-speed	
PC interface	USB 2.0	USB 2.0	USB 3.0	
Light colour		LED-6200 K	LED-6200 K	LED-6200 K
Light intensity		1550 lm, step-free adjustment	1550 lm, step-free adjustment	1550 lm, step-free adjustment





Use the contrast plates to give your gait laboratory a professional and technical appearance. They make precise horizontal and vertical orientation of the cameras possible and provide good contrast with the skin.

The contrast plates can be affixed to the wall laterally or frontally to the treadmill as a direct extension. An additional contrast plate, which is installed into the front of the treadmill frame, is available for the sport treadmills. Alternatively, we offer a contrast roll-up, which can be positioned in front of or behind the treadmill.



p/cosmos



To guarantee problem-free functionality, all SCHEINWORKS pressure measurement systems are delivered with PC systems as standard. These are specially coordinated to the requirements of the SCHEINWORKS FDM software, and represent state-of-the-art technology. You can choose between a notebook, tower PC or touch-screen PC.

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