

BioNet Lab. Inc. is a Japanese venture company which supplies the automatic workload measurement system,



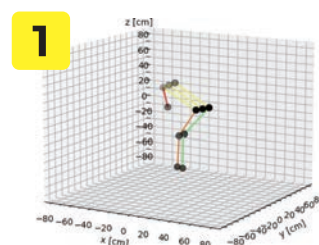
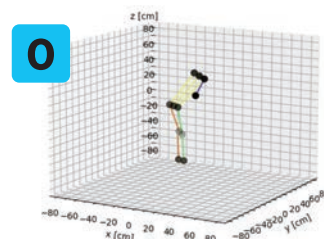
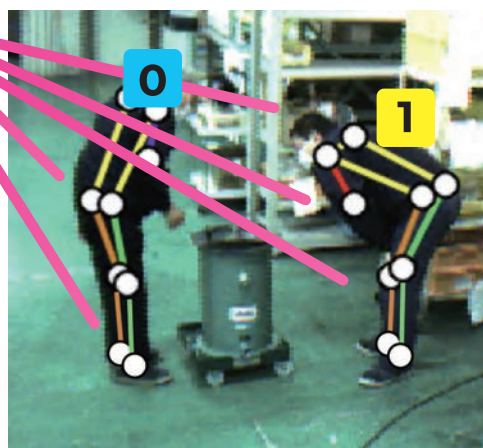
PosCheck-101

PosChek-101 : Visualization of workload by OWAS method

- Based on the OWAS method, PosCheck automatically measures the load of work into four action categories three-dimensionally in every seconds.
- Records action categories, 3D skeletal diagram and measurement results.
- Measurement data allow you to visualize high-load sites and understand work processes that require improvement.



AI&3D Measurement



PosCheck helps prevent back pain and improve the work environment.



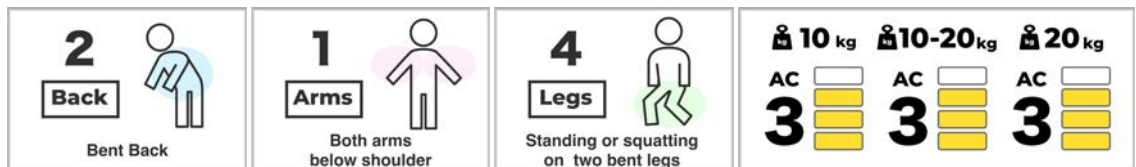
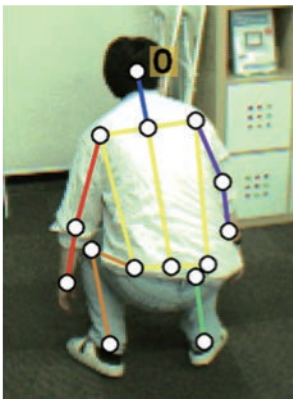


PosCheck evaluates stress posture using the OWAS method.

What is the OWAS method?

It is an analysis method for posture measurement developed in Finland.

- Using posture classification and evaluation criteria, working posture is judged into four action categories and risk is evaluated.
- It is used internationally as a standard posture judgment method because it allows for whole-body posture evaluation, does not require special equipment, and has established evaluation criteria.



For example, if you are bending your back forward, squatting, with your arms lower than your shoulders, and holding something weighing less than 10 kg, your rating is **AC3**.

[1]Back	[2]Arms	[3]Legs	[4]Load																					
			1			2			3			4			5			6			7			
			Sitting			Standing on two straight legs			Standing on one straight leg			Standing or squatting on two bent legs			Standing or squatting on one bent leg			Kneeling			Walking			
			~10kg	10kg~20kg	20kg~	~10kg	10kg~20kg	20kg~	~10kg	10kg~20kg	20kg~	~10kg	10kg~20kg	20kg~	~10kg	10kg~20kg	20kg~	~10kg	10kg~20kg	20kg~	~10kg	10kg~20kg	20kg~	
1	Upright Back	1 Both arms below shoulder	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	
		2 One arm at or above shoulder	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	
		3 Both arms at or above shoulder	1	1	1	1	1	1	1	1	1	2	2	3	2	2	3	1	1	1	1	1	2	
2	Bent Back	1 Both arms below shoulder	2	2	3	2	2	3	2	2	3	3	3	3	3	3	2	2	2	2	3	3		
		2 One arm at or above shoulder	2	2	3	2	2	3	2	3	3	3	4	4	3	4	4	3	3	4	2	3	4	
		3 Both arms at or above shoulder	3	3	4	2	2	3	3	3	3	3	4	4	4	4	4	4	4	4	2	3	4	
3	Twisted Back	1 Both arms below shoulder	1	1	1	1	1	1	1	1	2	3	3	3	4	4	4	1	1	1	1	1	1	
		2 One arm at or above shoulder	2	2	3	1	1	1	1	1	2	4	4	4	4	4	4	3	3	3	1	1	1	
		3 Both arms at or above shoulder	2	2	3	1	1	1	2	3	3	4	4	4	4	4	4	4	4	4	1	1	1	
4	Bent and twisted Back	1 Both arms below shoulder	2	3	3	2	2	3	2	2	3	4	4	4	4	4	4	4	4	4	2	3	4	
		2 One arm at or above shoulder	3	3	4	2	3	4	3	3	4	4	4	4	4	4	4	4	4	4	4	2	3	4
		3 Both arms at or above shoulder	4	4	4	2	3	4	3	3	4	4	4	4	4	4	4	4	4	4	4	2	3	4

- Action Category 1:** Normal and natural posture without harmful effects on the musculoskeletal system.
- Action Category 2:** Posture with the possibility of causing harm to the musculoskeletal system.
- Action Category 3:** Posture with harmful effects on the musculoskeletal system.
- Action Category 4:** The load caused by this posture has extremely harmful effects on the musculoskeletal system.

PosCheck automatically determines AC1 to 4 based on the OWAS method.



Specifications of PosCheck-101

Function		Content
1	Judgment by OWAS method	Automatically determines the Action Category of postural load by OWAS method from acquired 2D and 3D images.
2	Sampling time	Measurements can be made in 1 second increments, as short as 1 second. In addition, high-speed 24 frames/sec measurement mode can also be selected (See the item 12).
3	Measurable time	From 1 minute up to 12 hours.
4	Maximum storage capacity of files	Depends on the disk capacity of the notebook PC (1 terabyte available).
5	Fully automatic measurement available	After creating a schedule on a PC, start measuring unattended.
6	Number of objective persons	Recommended for 1 to 3 persons.
7	Measuring range (approximately)	6m long, 6m wide, 6m deep
8	Measurement environment	Indoors, in an environment where LEDs, fluorescent lights, mercury lamps, etc. are certified. For indoor use only.
9	Measurement results (numeric values)	Numerical information such as 3D coordinates of each joint, distance information such as the distance between both shoulders, and twist angle, etc.
10	Measurement results (image)	3D skeletal diagram and color image with skeleton in png format.
11	Measurement results (posture judgment)	Save the judgment results for the back, upper limbs, and lower limbs, and the Action Category values of OWAS method in CSV format.
12	Real time measurement	Additional function which shoots a video at 24frame/sec. Perform OWAS analysis after completion of the shooting (As mentioned above in the item 2).

Please contact to us by e-Mail: info@bio-net.co.jp