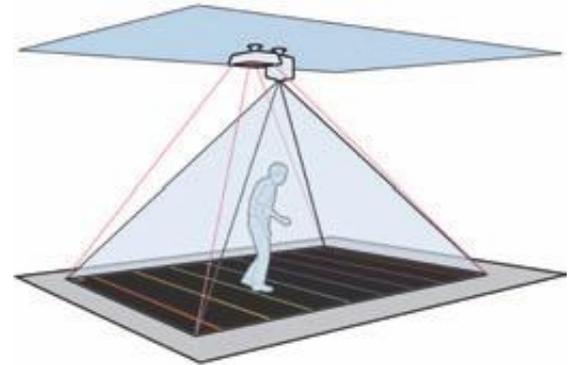


BTS NIRVANA

General description

BTS NIRVANA is a therapeutic solution based on specific exercises for rehabilitation of patients affected by neuromotor pathologies. Strengths of the system are the playful and target oriented nature and its sensorial feedback richness that provide stimulus to the patient. BTS NIRVANA is a markerless system based on optoelectronic infrared devices, that allows for a complete audio and visual sensorial immersion in virtual settings, with whom the patient can interact simply through his movement. Each exercise is characterized by several modalities and incremental levels of difficulty. The system, thanks to its high versatility, offers a set of exercises for upper limbs, lower limbs and trunk. Specific exercises, aimed at regaining motor control and reducing impairment, can be used independently on the disease. Some others, defined by specific visual and audio feedback or execution modalities, are explicitly dedicated to a unique pathology. Every exercise is integrated with score allowing the practitioner to monitor patient's performance and consequently to modify the difficulty level in the exercise. The score also acts as a major motivational incentive thanks to the real time visualization observed by the patient during the exercise. A report, with the exercise list and the score for every task, is automatically generated after every trial to keep track of the therapy. A temporal report can also be created to evaluate the treatment effectiveness.



Components and accessories

	Std. Equipment	Add-on
1 or 2 Markerless Infrared Sensors	●	
Workstation All-in-One touch screen	●	
1 or 2 Video Projectors (4000 ANSI Lumen)		●
1 or 2 Camera supports (different models available)	●	
BTS NIRVANA Software	●	
RFID Card reader		●
Webcam	●	
BTS MIOFEED system (2 channels)		●

Technical features

Markerless Infrared Sensor

TVC	Digital Board Camera - 400Mbps 1394a
Sensor CCD	Square pixels, 1/4"
Acquisition frequency	30fps
Preview	Full frame
Illuminators	high radiation power LED
LED illuminator wavelength	850nm
Data transmission technology	FireWire
TVC power	dedicated AC adapter
Fixed focal length lens	4.3 mm
Aperture (F)	2.0

Workstation

Processor	2nd generation Intel® Core™ i7
Video Card	NVIDIA® GeForce® GT 540M
Memory	RAM 8GB - HDD 750GB
Monitor	Multi-touch 24" Full HD 3D
Resolution	1920x1080

Video Projector (minimum requirements)

Brightness	4000 ANSI Lumens
Resolution	1024x768



ADVANCED REHABILITATION

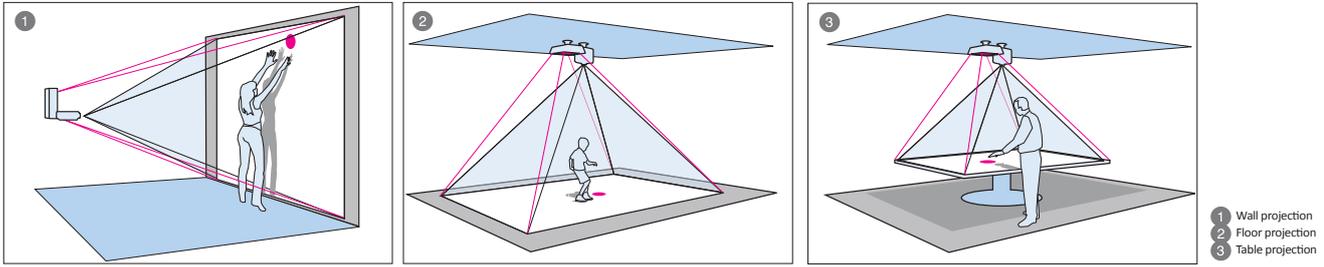
Biofeedback and Robotic solutions for a more effective therapeutic path



BTS Biomedical

Required working space

The distance between BTS NIRVANA Unit and projection plane must be at least of 8 feet (2.5 m) for the wall projection and of 9 feet (2.8m) for the floor projection. Projections over table or other surfaces are performable with smaller distances.



BTS NIRVANA Software

BTS NIRVANA is supplied with a user-friendly interface that simplifies the patient's database management. All the software menus are managed through the touch screen, very functional and intuitive.

- 1 The patient database containing the personal data can be automatically managed through the BTS RFID cards or manually .
- 2 Menu for the rehabilitation program planning and for the ongoing therapy management.
- 3 Work sessions library to visualize score and performed exercises list and to print the reports.
- 4 Real time visualization for scoring and video recording .



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