

# BalanceTutor™ On Site Installation

Apr 2018



BalanceTutor a dynamic and static postural control trainer

Tel: (972)-9-8637477 Fax: (972)-9-8852935 BalanceTutor on site installation 180415.doc 45 Hamelacha, Poleg industrial zone, Netanya, Israel. Zip: 42505, PO Box: 8306 Page 1 of 10 www.meditouch.co.il info@meditouch.co.il DO-15-01-09



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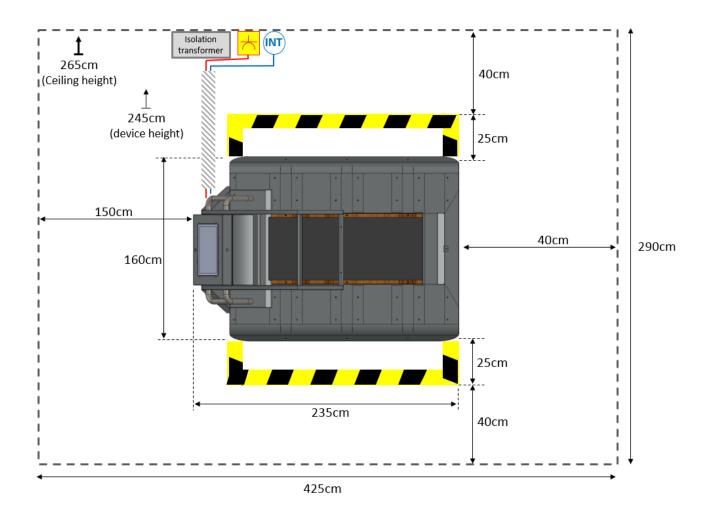
# 1 Version control

Date	Change description	Written by	Ver.
11 Feb 2016	Initial version	Ziv K.	160211
9 Aug 2016	Opening a section: Installation preparation	Ziv K.	160809
15 Apr 2018	Requirement modifications	Ziv K.	180415

# 2 Installation preparation

#### 2.1 Minimal required installment area

Following a minimal dimensions required from a dedicated area for the BalanceTutor instalment.



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#### 2.2 Taking pictures of installment area

# Please take the following high resolution and good brightness photos and send them to MediTouch at <u>ziv@meditouch.co.il</u> :

- 1. The dedicated area for the installment (recommended as shown in section 2.1).
- 2. Closest electrical power source and internet outlets (recommended as shown in section 2.1).
- 3. Circuit breaker from the electrical board dedicated for the BalanceTutor.
- 4. Access pathways from crate location to the instalment area. Consider taking pictures that will include the following: Stares, elevator, doors, corridors etc.

#### 2.3 Installment area considerations

Consider the followings when you plan the location and orientation of the device:

- The upper plate of the device is moving right and left ±20cm in high intensity. Therefore, consider device orientation to have minimal interaction with free walking area from the sides of the device.
- 2. Avoid any impact/collision with an entrance door (in case of a small room).
- 3. Insure there are no water source that might influence the BalanceTutor in case of a fault (air condition, pipelines, etc.), warranty of the voided in this case.
- 4. In case of camera capture system, consider appropriate distances.

#### 2.4 Installation requirements

1. Prepare a dedicated power line with the following properties;

Area	Description	Outlet type
Worldwide	<ol> <li>Single Phase 230V AC L/N/PE 50/60 Hz 2Pole 16A circuit breaker.</li> <li>Electrical wire 2.5<sup>2</sup>X3</li> </ol>	According local standards
USA	<ol> <li>208V AC L1/L2/PE 60 Hz 2x10A circuit breaker.</li> <li>Electrical wire 2.5<sup>2</sup>X3</li> </ol>	6-20R NEMA

- 2. Prepare an electrical power plug: right angle, non-fused, industrial grade, UL/EU standard compliance.
- 3. Prepare a dedicated internet physical line located near the electrical outlet and confirm this line exposed to internet without any port restrictions.
- 4. Power source will not exceed a 3m cable length.



# 3 Installation day

On this day the installation is conducted on the customer's site. Following items need to be ready or completed by that point of time.

## 3.1 Staff members

The following staff members will need to be available/attend during the installation stages:

PROCESS	HUMAN RESOURCE
Device installation	Distributor's qualified technician or MediTouch technician and 2-3 assistants
Remote control	Institution's system administrator
Technical training	Distributor's qualified technician, Hospital's clinical staff
Clinical training	Distributor's or MediTouch clinician, Hospital's clinical staff

Note: The distributor needs to take in to account that a qualified technician must attend during the installation in order to learn all aspects of installation, maintenance, troubleshooting and service procedures for future maintenance.

### 3.2 Onsite product arrival

The BalanceTutor arrives safely to the customer's site in a wooden crate.



Please see the following in regarding this stage:

- 1. Confirm BT wooden crate has arrived to the entrance of the hospital site and is ready for to be disassembled.
- 2. The location of the BT wooden crate should be kept in a safe location and away from people.
- 3. There are comfortable ways to the elevator and all the way to the installation area.

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## 3.3 Component transfer to department

Duration: Appx. 1 hour

The BalanceTutor disassembled and transferred to the predefined installation area.



#### 3.3.1 Preparation and requirements

Please see the following regarding this stage:

- All items included in the wooden crate are listed in a Packing List. MediTouch document number: DO-15-01-10
- 2. A standard pallet jack must be available.
- 3. 2-3 workers will help to deliver all product components to the installation site.
- 4. Throughout the disassembly process of the wooden crate and the transfer of components to the installation area, the attendance of a security officer from the hospital is highly recommended, in order to avoid any harm caused to people or the facility, and for guidance directly to the installation area.
- An available elevator with a minimal size is required: Door width – 90cm, Door height – 210cm, Elevator length – 180cm
- 6. After the wooden crate is disassembled and emptied from BT components, it's required to be delivered to a recycle area or safely placed in a waste zone.



#### 3.3.2 Heavy components

Following list of components that require special logistic attention due to physical dimensions:

ITEM NAME	DIMENSION	WEIGHT	IMAGE
Bridge base	Height – 136cm Width – 110cm Depth – 81cm	90Kg	
Frame base	Length – 190cm Width – 110cm Height – 10cm	50Kg	
Frame upper	Length – 198cm Width – 158cm Height – 18cm	80Kg	



## 3.4 Installation process

Duration: 5-7 hours

The BalanceTutor fully assembled from piecewise to fully operational product.



#### 3.4.1 Installation

Installation process covers the following topics:

- 1. Device installation.
- 2. Isolation transformer installation.
- 3. Network printer connection. A system administrator of the hospital required to attend.
- 4. Remote access to the device from out LAN connection. A system administrator of the hospital required to attend.
- 5. Define a keep-out-zoon / secure-zone to avoid impact of the moving parts to a subject.
- 6. We recommend that an electrical engineer from the hospital (medical engineering department) will arrive after installation completed, and perform electrical testes to comply hospital's electrical acceptance procedures standard.

#### 3.4.2 Safety

Throughout all the installation period the assembly dedicated area and its near surroundings are very unsafe due to of many sharp metal elements and non-assembled components. Presence of unauthorized personal or patients is forbidden.

The following safety principles must be preserved:

- 1. A defined area for assembly must be set before a MediTouch authorized technician starts to assemble.
- 2. An interruption during assembly will be redundant and might harm the safety of the process.



# 4 Training

The BalanceTutor training process is divided to technical and clinical stages.



## 4.1 Technical training

Duration: 2-4 hours

The following topics covered and conducted by a MediTouch authorized technician on-site:

#	ITEM	DETAILS
1	System components	Familiarizing with all system components.
2	Patient safety	harness wearing and adjustment, correct operation and use, safety procedures, etc.
3	Users safety and precautions	Moving parts, keep out zones during operation, etc.
4	Remote control procedure	Software updates, training, inspection, maintenance, etc.
5	Functional operation	Features, users, treatment modes, settings, etc.
6	Perturbation principle	Intensity, directions, safety, etc.
7	After training procedure	
8	End of training day	System shutdown, system clean up, touch screen clean up,
	procedure	obstacles, etc.
9	Product maintenance	Treadmill lubrication, treadmill tension adjustment, etc.



## 4.2 Clinical training

Duration: 4-6 hours

The following topics covered and conducted by a MediTouch authorized clinician or therapist via an online connection:

#	ITEM	DETAILS
1	Safety principals and	Patient safety in evaluation and treatment mode.
	procedures	
2	Clinical aspects:	Scientific background behind rehabilitation based perturbation
		concept.
3	Treatment protocols	Creating of predefined treatment protocols and treatment
		sessions.
4	Clinical indications	Neurological, Orthopedic, Vestibular, Elderly and Sport
		rehabilitation.
5	Clinical contraindications	Medical conditions that the system is not recommended for use.
6	System operation	Operation of clinical applications, evaluation and treatment.
7	Documentations	Reports of evaluation and treatment.