Patient Bed (Four Motor)
TM-D-4056

User Manual

TURMED declares that we are the manufacturer of the TM-D 4056 Patient Bed (Four motor) and that the product complies with the Medical Device Regulation (EU) 2017/745(MDR) and meets all relevant requirements within the MDR.

METHOD OF ASSESSMENT OF CONFORMITY: ANNEX-IV DECLARATION OF CONFORMITY (ANNEX II & APPENDIX III)
CHAPTER III OF THE PRODUCTS MEDICAL DEVICE REGULATION APPENDIX VIII 4.1- RULE 1 / CLASS:1 ALL NON-INVASIVE DEVICES ARE CLASSIFIED AS CLASS I.

TURMED reserves the right to change the specifications without notice.
ALL RIGHTS RESERVED.

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SYMBOLS	
	Refer to instruction manual/booklet
	Operating instructions / Consult instructions for use
	General Warning
	Caution
	Warning; crushing of hands
	Warning; crushing of feet
	Non Sterile
	Do not place lift
	Do not store items under the bed
	Caster lock
REF	Catalogue number
MD	Medical device
LOT	Batch Code / Lot Number
SN	Serial number
UDI	Unique Device Identifier
Product Name	Product Model and Name Identification Area
CE	CE mark
	Manufacturer
	Production date
	Experation date
	Do Not Use If Packaging Is Damaged
	Protect from sunlight
	Protect from liquid contact
	Safe working load
	Maximum patient weight
	Direct current
~	Alternating current
	Dangerous voltage
	Unit provides terminal for connection of a potential equalization conductor. The potential equalization conductor provides direct connection between the unit and potential equalization busbar of the electrical installation.
	Protective earth terminal
IPX4	Protection from liquid splash
	Type B applied part
	In accordance with European Directive 2012/19/E U on Waste Electrical and Electronic Equipment (WEEE), this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Contact your local distributor for disposal information. See the maintenance manual for servicing instructions and recyclable components.

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WARNING/CAUTION/NOTE DEFINITION

The words WARNING, CAUTION, and NOTE carry special meanings and should be carefully reviewed.

WARNING : Alerts the reader about a situation which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION : Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the product or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

NOTE : Provides special information to make maintenance easier or important instructions clearer.

Always read and strictly follow the warnings and cautions listed on this page. Service only by qualified personnel.

SETUP

! WARNING !

• Always allow the product to reach room temperature before you conduct / start any setup or test functional operations to prevent permanent product damage.

• Do not use the product if it has identifiable faults, defects, malfunction or damage.

• Do not use this product under any conditions if use would cause injury to the operator or patient.

• Only operate the product when all operators are clear of the mechanisms.

• To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

• Always handle the power cord to avoid the risk of entanglement, damage to the power cord, or potential shock
hazards. If the power cord is damaged, remove the product from service and contact the appropriate maintenance
• Always allow enough clearance between the head end of the product and the adjacent wall, so you can unplug the
power cord from the wall outlet during an emergency.

• Always store the power cord before moving the product.

• Do not plug the power cord into any part of the product.

• If any unexpected movement occurs, always unplug the power cord and call the maintenance department.

• Do not store items under the bed. Do not insert objects into any openings in the product.

• Do not use the bed without the mattress support surface covers.

! CAUTION !

NOTE : The product has the appropriate amplification feature to isolate the same and all poles circuits from the mains supply. To plug in the product, plug the power cord into an outlet with a protective earth.

Before Putting the Product into Service, Make Sure the Following Components Are Working Correctly :

1. Visually inspect the product for any shipping damage.
2. Make sure that the product and all components and accessories have arrived.
3. Press the brake pedal. Make sure the brake, steering and neutral positions are working.
4. Raise and lower the side rails to ensure they move, can be lifted, and are securely locked in the full-up position.
5. Plug the battery (optional) cable into the control box.
6. Plug the power cord into the protective grounded outlet.
7. Press each button one at a time on the handset control, nurse control (optional), and patient control (optional) to ensure that all functions are working.
8. Make sure the battery (optional) is fully charged.
9. CPR (optional), make sure the release function is working.
10. Make sure the accessories are installed and working as described in the manual.

! WARNING !

• Before activating the CPR release, make sure there are no people or equipment under and around the back brace. The CPR release part is for emergency use only. (*If the product with CPR features)

• Do not sit on bed extension (optional). This movement may cause the product to topple over.

• Always lock the bed extension (optional) before placing weight on it.

• Do not use the product for x-ray procedures unless it has an X-Ray radiolucent back support (optional).

• Do not use accessories to support affected limbs or other body parts.

! CAUTION !

• Do not place or store external objects (heavy-light) regardless of their nature, into the openings in any part of the product or similar spaces on the product.

• Make sure the patient is positioned appropriately and safely on the mattress when using the control units.

• Do not remove the footboard after extending the bed extension (optional).

• Use only approved accessories for the product. Use of unapproved accessories may result in product damage and injury to the user or patient. **TURMED** is not responsible for any damage or injury caused by the use of unapproved accessories or misuse of the product.

• Make sure accessories are always in position and locked.

• Do not allow accessories to adversely affect the mechanical or electrical mechanisms of the product.

NOTES :

• The manual should be considered as a permanent part of the product and should be delivered to the person or institution with the product even if the product is sold.

• **TURMED** strives to continuously improve product design and quality.
This guide contains the most current product information available at the time of printing.
There may be minor inconsistencies between your product and this manual. If you have any questions, please;

+90 (232) 210 0 700 / info@turmedonline.com

Contact **TURMED** Customer Service or Technical Support using the contact information.

PINCH POINTS

Definition of pinch points :

Areas marked with red bars below are areas that may cause body parts to be pinched, and unauthorized intervention to the marked areas and insertion of body parts is strictly prohibited.
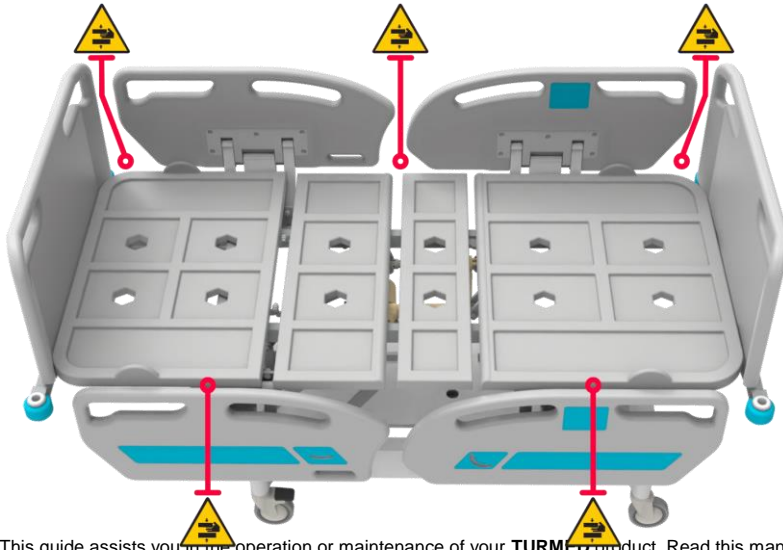
This guide assists you in the operation or maintenance of your **TURMED** product. Read this manual before operating or maintaining the product. Identify methods and procedures for training your personnel in the safe operation or maintenance of the product.

•   Improper use of the product may result in patient or user injury. Operate the product only as described in this manual.

•   Do not modify the product or any component of the product. Modifying the product may result in unpredictable operation resulting in patient or user injury. Modifying the product also voids the warranty.

Product description :

The product is a patient bed with electrical motor. It is for patients who will receive long-term treatment in hospitals,care centers and homecare. The product has four electric motors that enable it to be changed into various positions, including Trendelenburg, Reverse Trendelenburg and seat positions.It is equipped with foldable side rails, removable headboards and accessories that assist in patient care. It is an Electromechanical Medical-Surgical and Intensive Care bed with DC powerful motors and controls to adjust the patient sleeping surface.

Patient Bed Surface Consists of Four Parts:

Backrest, hip part,knee part and footrest part.

There are four independently moving siderails, two side rails at the headpart and two side rails at the footpart. Side rails are fixed in the fully upward position. When the slide is opened, the side rails open outwards and swing down to the lowest position.

You can activate electromechanical functions with the side rail control panel (optional), patient control panel and nurse control panel (optional). The control box consists of a group of electronic cards that direct the signals going to all four motors through the distribution box and control the thrust and traction forces. Side rail control panels (optional), patient control panel and nurse control panel (optional) can also be controlled via the distribution box.

The bed is equipped with a total of four motors: double on the upper side and double on the lower side. The first pair under the mattress support surface controls the back support up-down functions and the upper leg up-down functions. The second pair of motors placed at the bottom is positioned to perform functions that control the mattress support surface up-down and Trendelenburg and Reverse Trendelenburg states.

Bed mechanisms allow manual CPR (optional) installation, knee flexion part movement and bed length extension (optional) movements.

The bed is also equipped with a brake and steering control for the wheels. The wheels are positioned on the product for emergency or non-emergency transfer operations of a patient lying in bed.

Intended use :

The product has been produced for use by adult patients who need hospital bed support in the Medical-Surgical and homecare environment. Bed users include healthcare professionals (nurses, nurse assistants and medical doctors, etc.), service or care personnel, patients, and companions who can use bed movement functions.

Built for use in medical, surgical and critical care, healthcare settings including Hospitals, Institutions and Clinics and homecare.

The bed frame, the accessories mounted on the examination surface are all skin contactable.

Expected service life :

The product has an expected service life of **five years** under normal conditions of use and appropriate periodic maintenance.

Contraindications :

TURMED supports the clinical evaluation of each patient and appropriate use by the user.

The product is not intended for use in the following situations:

• In a home healthcare environment,
• Without sutibale mattress,
• With an oxygen tent,
• In the presence of flammable anesthetics,
• To support multiple individuals at a time.

Warranty :

Warranty may vary by country. Contact your local **TURMED** representative for additional information.

SPECIFICATIONS :

		Safe working load **Note**: Safe working load indicates the sum of the patient, cushion, and accessory weight	150kg.
		Maximum patient weight	300kg.
		Product weight	106kg. (±3kg.)
Specifications	**Overall Product Size**	Length	2030mm. (±10mm.)
		Lenght (with bed extension option)	2230mm. (±10mm.)
		Width	1070mm. (±10mm.)
		Mattress platform length	1900mm. (±10mm.)
		Mattress platform width	900mm. (±10mm.)
		Siderail height	370mm. (±10mm.)
		Headboard height	425mm. (±10mm.)
	Product Height (Without Mattress)	Lowest	440mm. (±10mm.)
		Highest	750mm. (±10mm.)
		Under product clearance	160mm.
		Castors diameter	125mm.
		Backrest angle	0° - 70°
		Footrest angle	0° - 40°

Electrical Requirements :

Control Box	100-240 VAC, 50 Hz. - 60 Hz. Nominal, 5 amp.
Electrical Classification	Class 1 when product is plugged into mains power Internally powered when the product is unplugged
Duty Cycle	2 mins of actuation and 18 mins idle.

*Class I Equipment: Equipment that protects against electrical shock and does not solely rely on basic insulation, but which includes an additional safety precaution that is provided for the connection of the equipment to the protective earth conductor in the fixed wiring of the installation that accessible metal parts cannot become live in the event of a failure of basic insulation.

Compatible mattresses :

TM-D 4069	1900mm. x 900mm. x 140mm.
TM-D 4078	1900mm. x 900mm. x 140mm.
TM-D 4079	1900mm. x 900mm. x 140mm.

CE

Specifications :

Standards applied	
IEC 60601-1:2005+CORR 1 (2006) + CORR 2 (2007)	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
IEC 60601-1-2:2007	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance Collateral standard : Electromagnetic compatibility -Requirements and
IEC 60601-2-52:2009	Medical electrical equipment - Part 2-52: Particular requirements for the basic safety and essential performance of medical beds
IEC 60601-2-54:2009* (*Only valid when the product is equipped with the radiolucent back support option)	Medical electrical equipment - Part 2-54: Particular requirements for the essential safety and essential performance of x-ray equipment for radiography and radioscopy.

Storage and Working Conditions :

Environmental conditions	Operation	Storage and transportation
Temperature	(38 °C) (5 °C)	(50 °C) (-10 °C)
Relative humidity	90% 20%	90% 20%
Atmospheric pressure	1060 *hPa* 800 *hPa*	1060 *hPa* 800 *hPa*
The listed specifications are approximate. It may differ from product to product or due to power supply fluctuations. **TURMED** reserves the right to change the specifications without notice.		

! WARNING !

• Only use the input voltage and frequency specified on the product.

! CAUTION !

• The product design follows the IEC 60601-1-2 standard to minimize any risk of electromagnetic interference. To avoid problems, use the bed in compliance with the EMC / EMI requirements in the EMC section of this operating manual.

• Portable and mobile RF communications equipment may cause electromagnetic interference. To prevent interference caused by portable and mobile RF communications equipment, maintain a minimum distance from portable and mobile communications equipment in accordance with the EMC section of this operating manual.

PRODUCT IMAGE AND DESCRIPTION :
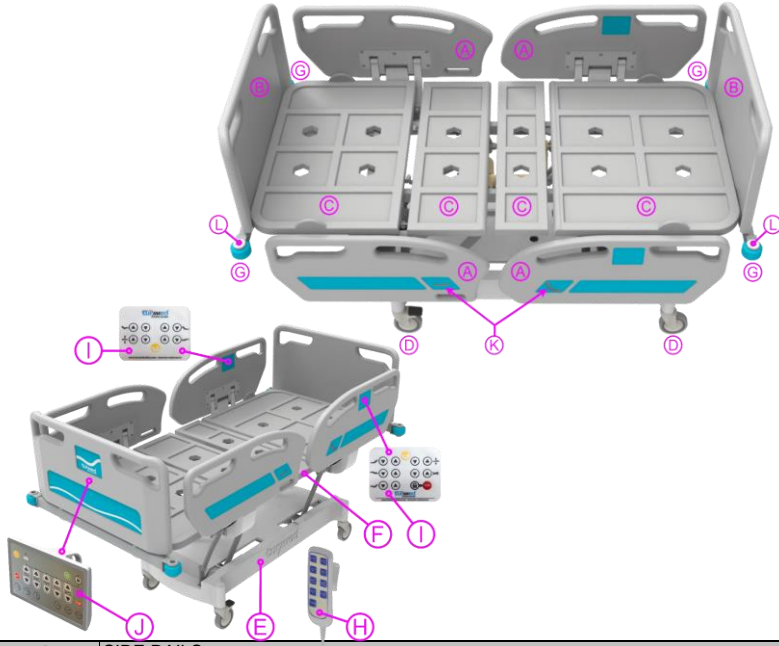
A	SIDE RAILS
B	HEADBOARDS
C	MATTRESS PLATFORM
D	WHEELS (WITH and WITHOUT BRAKE)
E	BOTTOM CHASSIS
F	UPPER CHASIS
G	BUMPERS
H	HANDSET CONTROL
I	INTEGRATED SIDE RAIL CONTROL (INNER and OUTER) (*OPTIONAL)
J	NURSE CONTROL PANEL (*OPTIONAL)
K	ANGLE INDICATORS
L	IV POLE and ACCESSORY SOCKETS (Located on Four Corners)

🚶	**APPLIED PARTS :**

Contact Information :

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OPERATION

Plugging or Disconnecting the Battery Cable:

To Plug the Battery Cable into the Control Box:
1. Locate the control box and the battery input socket on it.
2. Connect the battery cable to the control box.
3. Install the locking mechanism to lock the battery cable into the control box.

Plugging or Unplugging the Product:

⚠ **! WARNING !**

• Connect the product to the mains supply with protective earth.
• Make sure that the control cables and mounted cables on the product are undamaged and that there are no jams or entanglements during operation.
• When using the product for the first time, ensure that the movement and function tests on the panel are checked by trained personnel.
• Make sure that there is enough free space in the area where you connect the product to the wall network to allow emergency intervention in case of an electrical fault.
• If the product needs to be relocated, ensure that the power cord and control panels are transferred safely.
• To unplug the product, hold the handle at the end and pull the cable straight in a direction parallel to the ground.

Charging the battery *(For Devices With Battery)* :

⚠ **! WARNING !**

• Always disconnect the power cord from the wall outlet if you detect overheating of the battery, control cables, or
pendants. Do not use the product again until after it has been inspected, serviced, and confirmed to be working to
specification by an authorized and trained maintenance personnel.
• Always replace the battery with original one after it surpasses its expected service life.
• Do not open a dead battery, do not throw the battery into a fire.
• Do not spill liquid onto the battery or submerge the battery in liquid.

⚠ **! CAUTION !**

• Always plug the product into a wall outlet (regulated AC-power source) when not in use to maintain a sufficient
battery charge and to maximize product performance while operating on battery power.
• Always replace batteries that have corrosion at the terminals, display cracking, have expanded or bulging sides, or
no longer can maintain a full charge.
• When replacing batteries, use only approved batteries. Using unapproved batteries may cause unpredictable system performance problems.
• The product is equipped with a battery backup system that charges when plugged into a wall socket. The battery backup system allows the user to use the product when the product is unplugged, during a power outage, or while transporting a patient. The battery is activated when you unplug the product.
• Always check the battery backup function against the preventive maintenance checklist. If there is a malfunction or malfunction during preventive maintenance, replace the battery with an approved original product.
• To charge the battery, connect the product to a wall outlet. The battery has a full charge within 10 to 12 hours.

Storing the battery long term :

⚠ **! WARNING !**

• Always unplug the battery cable from the control box before storing the product for a long period of time.
• Do not place or store heavy objects on the product.Store the battery per the environmental conditions.

Storing the power cord :

⚠ **! WARNING !**

• Always store the power cord before transporting the product. Always handle the power cord to avoid the risk of entanglement, damage to the power cord, or potential shock hazards. If the power cord is damaged, remove the product from service and contact the appropriate maintenance personnel.

⚠ **! CAUTION !**

• Do not squeeze or pinch the power cord in the bed frame.
• To store the power cord, wrap the power cord around the cord wrap underneath the head end of the product.

Transporting the product :

⚠ ! WARNING !

- Always store the power cord properly before moving the product.
- During patient transportation, prepare the bed so that the sleeping surface is in the lowest horizontal position and the side rails are locked in the fully upward position.
- Always keep limbs, hands, fingers, and other body parts clear of mechanisms and gaps.
- Always make sure that there are no obstacles near the product. Injury to the patient, operator, bystanders or damage to the frame or surrounding equipment could occur if you collide with an obstacle.
- Do not attempt to move the product laterally. This may cause the product to tip.

⚠ ! CAUTION !

- Do not use the side rails and accessories as a push-pull device. Move the product using the integrated handles on the bedside and footboard panels.
- Always remove the accessories before moving the product.

To transport the product :

1. Lock the Nurse Panel (optional),integrated side rail control (optional) and patient control section functions.
2. Unplug the power cord from the wall outlet and position the cord in a suitable location.
3. Store all controls appropriately.
4. Adjust the serum pole in its lowest position.
5. Raise the side rails to the full up position and lock them.
6. Release both wheel brakes.
7. Move the product by holding the headboard or footboard.

BRAKES

Applying or releasing the brakes :

⚠ ! WARNING !

- Do not move the product after you apply the brakes.
- Always apply the brakes when a patient is getting into or out of the product to avoid instability.
- Always apply the brakes when the patient is unattended.

⚠ ! CAUTION !

- To prevent unwanted movements of the product, always make sure that the wheels are in the braked condition.
- Do not use the brake pedal to stop a moving product.

Brakes are divided into two as central or individual according to product options.

For Central Brakes :

1. There are two directions on the pedal, separated as red and green.
2. The brake stages are divided into three sections.
3. The green pedal direction is the direction lock mechanism.
4. The red pedal direction is the locking mechanism.
5. Press the green pedal direction, activate the wheel direction lock.
6. Press the red pedal direction, activate the wheel brake lock.
7. Move the pedal to the middle point, direction and brake lock will be disabled.

For Individual Brakes :

1. At least two wheels on the product are equipped with brakes.
2. Press the pedal down on the wheel with the brake assembly to lock it.
3. Press the pedal up on the wheel with the brake assembly to release.

HEADBOARDS

Removing and Installing the Headboard and Footboard Panel :

⚠️ **! WARNING !**

When installing the headboard and footboard, make sure the labeled surfaces face outward to avoid pinching.

You can remove the bedside and footboard panels for patient accessibility and cleaning.

To Remove Headboard and Footboard Panel :

1. Hang the Handset control on the side rail.
2. Grasp the headboard or footboard panel by the handles on it, pull it straight up and separate it outwards.yırın.

To Install the Headboard and Footboard Panel :

1. Align the edges of the headboard and footboard panel with the product
2. Align the headboard and footboard panel sockets with the socket slots on the product.
3. Lower the headboard and footboard panel until it fits into the socket slots.

LOWER LEG ADJUSTMENT

Raising or Lowering the Lower Leg :

⚠️ **! WARNING !**

Before lowering the lower leg section, make sure there are no people or equipment under and around the leg support.

⚠️ **! CAUTION !**

Do not elevate the lower legs when using the bed extender. This is to prevent situations where the product does not support a tall patient's lower legs.

You can raise or lower the lower leg support manually.

To Raise the Lower Leg :

1. Hold the lower leg part with both hands.
2. Raise the lower leg section to the desired height.
3. Release the lower leg section to lock it in place.

To Lower the Lower Leg :

1. Hold the lower leg part with both hands.
2. To unlock the lower leg section, lift the lower leg section up as far as it will go.
3. Guide the lower leg section back onto the mattress support surface.

SIDE RAILS

Raising or Lowering the Side Rails :

⚠️ **! WARNING !**

• When transporting the patient, the sleeping surface should be in a horizontal position and the side rails should be locked in the fully up position.
• Keep hands, fingers and other body parts away from mechanisms and openings.
• Keep the side rails in the locked position at all times, unless the patient's condition requires extra safety precautions.
• When the patient is left unattended, ensure that the side rails are always in the fully up position and locked.
• Do not use the side rails as restraint devices to prevent the patient from exiting the product. The user must determine for himself the degree of restraint necessary to ensure the patient's safety.
• Do not step or sit on the side rails.

⚠️ **! CAUTION !**

• Do not use the side rails to move the product. Always move the product using the handles integrated into the headboard and footboard panels.
• When raising the side rails to the highest level, listen for a "click" sound, which indicates that the side rails are locked in the raised position. This sound means that the railing is locked at the upper level.
• Pull the side rails towards you to make sure they are locked into place.
• To lower the side rails, lift the release slide and guide the side rails down.

Side Railing Control Panel (inner and outer of rails) (Optional) :

⚠️ **！ WARNING ！**

Always keep bed movement controls locked when the patient is left unattended.

INNER PANEL   OUTER PANEL

OUTER PANEL :

CODE	DEFINITION	FUNCTION
A	BACKREST UP	Raises back support.
B	BACKREST DOWN	Lowers the back support.
C	UPPER LEG UP	Raises upper leg parts.
D	UPPER LEG DOWN	Lowers upper leg parts.
E	AUTOCONTOUR UP	Raises back support and upper leg section at the same time.
F	AUTOCONTOUR DOWN	Lowers back support and upper leg section at the same time.
G	HEIGHT UP	Raises mattress platform.
H	HEIGHT DOWN	Lowers mattress platform.
I	REVERSE TRENDELENBURG	Puts the product in Reverse Trendelenburg position. (Head Up and Feet Down)
J	TRENDELENBURG	Puts the product in Trendelenburg position. (Head Down and Feet Up)
K	CPR *(*Optional)*	It puts the bed in the CPR position (lowest and flat position).
L	FUNCTION LOCKING	Locks functions on the interior panel.

INNER PANEL :

CODE	DEFINITION	FUNCTION
A	BACKREST UP	Raises back support.
B	BACKREST DOWN	Lowers the back support.
C	UPPER LEG UP	Raises upper leg parts.
D	UPPER LEG DOWN	Lowers upper leg parts.
E	AUTOCONTOUR UP	Raises back support and upper leg section at the same time.
F	AUTOCONTOUR DOWN	Lowers back support and upper leg section at the same time.
G	HEIGHT UP	Raises mattress platform.
H	HEIGHT DOWN	Lowers mattress platform.

HANDSET CONTROL :

⚠️ **！CAUTION！**

- Position the patient securely on the mattress while using the hand control panel.
- When the handset control is not in use, hang it on the side railing in the appropriate position.
- Do not pinch or trap the handset control cord in the bed frame.

CODE	DEFINITION	FUNCTION
A	BACKREST UP	Raises back support.
B	BACKREST DOWN	Lowers the back support.
C	UPPER LEG UP	Raises upper leg parts.
D	UPPER LEG DOWN	Lowers upper leg parts.
E	AUTOCONTOUR UP	Raises back support and upper leg section at the same time.
F	AUTOCONTOUR DOWN	Lowers back support and upper leg section at the same time.
G	HEIGHT UP	Raises mattress platform.
H	HEIGHT DOWN	Lowers mattress platform.
I	CPR *(*Optional)*	It puts the bed in the CPR position (lowest and flat position).

NURSE CONTROL PANEL (OPTIONAL) :

⚠️ **! WARNING !**

• Always lock the bed movement controls when the patient is left unattended.
• Never leave the nurse control panel within the patient's reach.
• Do not use sharp objects to clean the nurse control panel (optional).

⚠️ **! CAUTION !**

• Always place the Nurse Control on the foot rail.
• Before removing the footboard, hang the Nurse Control on the footboard side rails.
• Do not pinch the controller cable in the bed frame or leave it exposed to damage.
• Do not remove the footboard when the nurse control unit (optional) is installed.

CODE	DEFINITION	FUNCTION
A	BACKREST UP	Raises back support.
B	BACKREST DOWN	Lowers the back support.
C	UPPER LEG UP	Raises upper leg parts.
D	UPPER LEG DOWN	Lowers upper leg parts.
E	AUTOCONTOUR UP	Raises back support and upper leg section at the same time.
F	AUTOCONTOUR DOWN	Lowers back support and upper leg section at the same time.
G	HEIGHT UP	Raises mattress platform.
H	HEIGHT DOWN	Lowers mattress platform.
I	REVERSE TRENDELENBURG	Puts the product in Reverse Trendelenburg position. (Head Up and Feet Down)
J	TRENDELENBURG	Puts the product in Trendelenburg position. (Head Down and Feet Up)
K	FUNCTION LOCKING	Locks functions on all panels.
L	POWER	Turn on/off panel.
M	EXAMINATION POSITION	Operate to the examination position with a single button.
N	V POSITION	Operate to the V position with a single button.
O	EXIT POSITION	Operate to the exit position with a single button.
P	CARDIAC POSITION	Operate to the cardiac position with a single button.
R	VASCULAR POSITION	Operate to the vascular position with a single button.
S	FOWLER POSITION	Operate to the fowler position with a single button.
T	CPR (Optional)	Operate to the CPR position with a single button.

CLEANING :

Preparing the product for cleaning :

Cleaning and disinfecting are two separate processes.
Clean before disinfecting to make sure that the cleaning agent is effective.

To prepare the product for cleaning :
1. Raise the mattress support surface section to the highest position.
2. Lock the side rail control panel (optional) and patient control section functions.
3. Unplug the power cord from the wall outlet. **See: Storing the power cord.**
4. Adjust siderails to lowest position.
5. Brake the wheels. **See: Applying or Releasing the Brakes.**
6. Remove mattress.

⚠️ **! WARNING !**

- Do not clean, service, or maintain the product while in use.
- Always turn off the power and unplug the power cord before cleaning, service or maintenance.
- Always power off the product and unplug the power cord from the wall outlet when large spills occur near the circuit
boards, cables, and motors. Remove the patient from the product, clean up the fluid, and have service personnel
inspect the product. Fluids can cause unpredictable operation and decreased functionality of any electrical product.
Do not return the product to service until it is completely dry and has been thoroughly tested for safe operation.
- Do not spray cleaners directly onto the battery, control boxes, actuators, cables, or other electric equipment.
- Do not use abrasive powder, steel wool, or similar materials that may damage the product surface.
- Do not use acid-based chemicals or flammable chemicals, such as gasoline, diesel, or acetone for cleaning
purposes.
- Do not spray directly on or saturate the Handset Control Panel or Nurse Control Panel (Optional) with
cleaners.

⚠️ **! CAUTION !**

- Do not steam clean, pressure wash, ultrasonically clean, or immerse any part of the product in water. Exposure to
water may damage the internal electric parts. These methods of cleaning are not recommended and may void this
product's warranty.
- Always make sure to wash each item with clean water and dry it thoroughly after cleaning. Some cleaning products are corrosive and can damage the product if you do not use it properly. If you do not properly rinse and dry the product, corrosive residues may remain on the product surface that can lead to premature failure of critical components. If you do not strictly follow the cleaning instructions, your product warranty will be void.

To clean product surfaces :
1. Using a clean, soft, damp cloth, wipe product surfaces with a mild soap and water solution to remove foreign
material.
2. Wipe product surfaces with a clean, dry cloth to remove any excess liquid or cleaning agent.

DISINFECTING :

Suggested disinfectants :
- Quaternary cleaners without glycol ethers (active ingredient - ammonium chloride)
- Phenolic cleaners (active ingredient - o-phenylphenol)
- Chlorinated bleach solution (5.25% - less than 1 part bleach to 100 parts water)
- 70% Isopropyl alcohol

Always follow the disinfectant's instructions for appropriate contact time and rinsing requirements.
Avoid oversaturation and make sure that the product does not stay wet longer than the chemical manufacturer's
guidelines for proper disinfecting.

To disinfect the product :
1. Thoroughly clean and dry the product before you apply disinfectants.
2. Apply recommended disinfectant solution by spray or pre-soaked wipes.
   Note: Make sure that you follow the disinfectant's instructions for appropriate contact time and rinsing requirements.
3. To disinfect the mechanisms, set the backrest and footrest mechanisms to their most open position.
4. Wipe product surfaces and mechanisms with a clean, dry cloth to remove any excess liquid or cleaning agent.
5. Allow the product to dry completely before placing the product back into service.

PREVENTIVE MAINTENANCE :

Check all items in the list during the annual preventive maintenance of **TURMED** products. Depending on your level of product usage, you may need to perform preventive maintenance checks more often. Remove the product from service before performing preventive maintenance. Preventive maintenance should only be performed by trained or certified personnel.

Preventive Maintenance Form Control Items   :

All welds and all fasteners are secure.	
Pipes, profiles and sheet materials are free of bends or cracks.	
Casters are free of debris.	
Casters are secure and swivel.	
Casters lock securely by depressing the brake pedal.	
Central directional lock works. (Opt.)	
Backrest adjustment works fine.	
The mattress support surface works up and down.	
Trendelenburg and Reverse Trendelenburg works.	
Iv pole is solid and working.	
Accessory covers are not damaged or cracked.	
Bed extension works. *(Opt.)*	
Headboard and footboard panels are free of cracks or splits.	
CPR release is working. (Opt.)	
The side rails move and lock up.	
All control panels functions are functional. (Excluding Optional Features)	
Batteries have not expired due to their lifetime. (Ops.)	
Batteries for corrosion at the terminals, cracking, expanded or bulging at the sides, or can no longer maintain a full charge *(Ops.)*	
Batteries are fully charged. (Ops.)	
The lower leg part is moving.	
ABS bed and body platforms are complete, in place and in good condition.	
Power cord and cables not worn or frayed.	
All electrical connections tight.	
All grounds secure to the frame.	
Ground Impedance Check (≤ 0.2 Ohm)	
Leakage current: Normal Polarity, No Ground, L2 Active (≤ 300 μA)	
Leakage current: Normal Polarity, No Ground, No L2 (≤ 600 μA)	
Leakage current: Reverse Polarity, No Ground, L2 Active (≤ 300 μA)	
Leakage current: Reverse Polarity, no Ground, No L2 (≤ 600 μA)	
Enclosure is free from wear, tear, stresses and mechanical damage.	
High potential test 1500 VAC (trip current not more than 10 mA)	
No rust or corrosion of parts.	
Control boxes are not damaged or cracked.	
Actuator functionality.	
Labels for legibility, proper adherence, and integrity	

Guidance and Manufacturer's Declaration - Electromagnetic Emissions :

The product is intended to be used in the following electromagnetic environments.
Its Customer or User must ensure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment
RF Emissions CISPR 11	Group 1	It only uses RF energy for its internal function.Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class A	is suitable for use in all establishments other than domestic and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations Flicker Emissions IEC 61000-3-3	Complies	

PRODUCT LABEL :

Product Label Example :

On the Label on the Product Chassis ;
Brand, Factory Address, Barcode, Product Code, Product Name, Production Date, Lot Number, Serial Number, Protective Symbols are included.
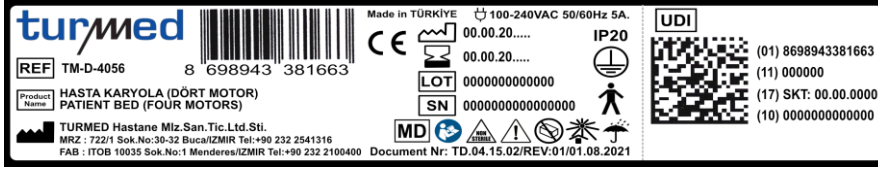
PACKAGE :

Package Detail :

Frame Package :
1. There is a 4cm thick protective honeycomb cardboard on the bedside part of the product.
2. The product is stacked vertically on these buffers during shipment and storage.
3. Railings are covered with transparent nylon.
4. The whole body is covered with stretch nylon except wheels.
5. Ballooned nylon is laid on them to cover the whole body and accessories, and there is no gap.
6. Headboard and footboard panels are packaged with cardboard box seperately

Packaging Label Example :

On the Label in the Product Package ;
Brand, Buyer's Name, Buyer's Country, Product Name, Product Code, Color, Proforma Invoice Number, Package Content Amount, List Number, Product Origin, CE mark.