Multi-sensory nursing trolley



Technical and operating instructions

Read this manual carefully before first use



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I - Nursing trolley introduction



Technical drawer - batteries Storage tray with charging cord



> 2 - Foreword

The Satellite[®] trolley is a multi-sensory nursing trolley, designed to be used at the bedside of the patient receiving care.

The trolley is supplied with a protective cover.



When the trolley is not being used, the cover should be over the trolley and the trolley should be locked. For safety reasons, the nursing staff should always remain with the patient when providing care.

▶ 3 - Starting up the trolley

It is important to respect the order of starting of the elements of the trolley.

3.1. Starting up the trolley

To access the trolley, unlock the lock by entering the code 0099, then open the door.



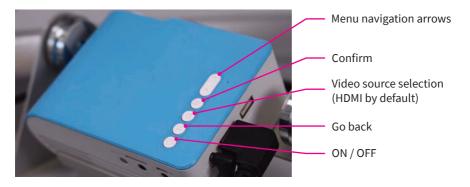
To start the trolley, turn the circuit breaker to "ON" and press the ON / OFF button once. During the starting process, the button will flash blue. After a few seconds, all the buttons on the control panel will light up and then go out, and the start/ stop button will light up in blue. The trolley is now ready for use.

3.2. Starting up the projector



In the drawer below the control panel, there is a key with a dome-shaped key ring. This key unlocks the dome and gives access to the projector.

To turn on the projector, press the ON / OFF button. Only use this button to turn on the projector. For information purposes, here are the functions of the rest of the buttons:



The projector can be tilted and rotated for wall or ceiling projection. If necessary, adjust the projector focus to adjust video sharpness. Close the dome before launching a program.

3.3. Starting up the tablet



To turn on the tablet, press the power button on the right side of the tablet. Once the tablet is on, launch the "PRATICIMA" application.

The Wi-Fi logo, which flashes in the upper right corner, signals that the Wi-Fi connection is established with the trolley.



Procedure to follow if Wi-Fi disconnection

The Wi-Fi sometimes disconnects between the trolley and the tablet.

To re-establish the connection, swipe the screen from top to bottom and press and hold the Wi-Fi icon.



Select the Satellite® trolley.

13:56		*
← W	LAN	Q
Uti	liser le WLAN	
Sat Auc	un accès à internet	۲

• 4 - Presentation of the programmes

The Satellite[®] trolley has six predefined programmes and one free programme. The programmes can be selected according to the patient's non-drug care protocol.

For all programmes, the diffusion of essential oils is limited to 10 minutes. In a general sense, we suggest being cautious with the use of essential oils with people receiving treatment. The "Soothing" programme uses lavender essential oil, which contains a small amount of camphor. Be sure to observe the quantities of essential oil per bottle, especially in the case of asthmatic and epileptic patients.

4.1. Predefined programmes

Programme	Bubble panel	Fibre	Essential oil	Video	Audio	Cycle duration	Duration of treatment*
Soothing	Green	Alternating colours	Sweet orange	Soothing and relaxing video with nature themes (flowers, butterflies, birds, stream, waterfall, wave movements, forest walk, 4 seasons)	Piano, harp, pan flute, hang drum	45 mn	Free timer**
Balneo	Light blue	Alternating colours	Marjoram	Soothing and relaxing video with water themes (sea, ocean, waves, seagulls, beach, fish, coral, turtle)	Water sounds + sounds of the sea environment (seagull, boat) + relaxing music (synthesizer)	44 mn	Free timer**
Stimulating	Pink / red	Alternating colours	Lemon	Video with stimulating effect, with movement: life scenes such as dance, sports, children's games, animals, etc.	Accordion, guitar, piano, violin, etc.	20 mn	Max timer : 20 mn
Relaxing	Yellow	N / A	English lavender	Soothing video with the northern lights	Violin, cello, piano	1 h	Free timer**
Nuit	Dark blue	N / A	Synergy: lavender / Roman chamomile / orange blossom	Relaxing and soothing video: Camp fire on a beach with the sunset in the background and then a starry night	"Pure" nature sounds: waves, crackling fire, cicadas, crickets, etc. Repetitive sounds	55 mn	Max timer : 16 h
Before meal	Pink / purple	N / A	Petitgrain paraguay	Video about catering and gastronomy intended to whet the appetite: market, restaurants, picnic table, preparation of dishes, well- presented dishes, etc.	Sounds of market, restaurant, dishes, kitchen, cooking-related sounds + stimulating music (synthesizer, guitar, percussion)	20 mn	Max timer : 20 mn



4.2. Free programme

The free programme is a customised programme, and its parameters can be defined using the tablet. It's possible to copy an existing programme and then modify it with data from another programme. Each multisensory parameter can be activated or deactivated.

Here are the different possibilities to compose a free programme:

Bubble panel	Fibre	Essential oil	Video	Audio	Duration of treatment*
- Blue 1 - Blue 2 - Blue 3 - Emerald - Green 1 - Green 2 - Orange 1 - Orange 2 - Pink 1 - Pink 2 - Purple 1 - Purple 2 - Red 1 - Red 2 - Turquoise - White - Yellow 1 - Yellow 2	Alternating colours	- Sweet orange - Marjoram - Lemon - English lavender - Synergy: lavender / Roman chamomile / orange blossom - Petitgrain paraguay	- Balneo 1 - Balneo 2 - Before meal 1 - Before meal 2 - Night - Relaxing - Soothing - Stimulating 1 - Stimulating 2	 Balneo Beetoven Before meal Birds Chopin Dynamic music Flute Handpan relaxing music Jungle Night Piano relaxing music Rain Relaxing Relaxing music Soothing Stimulating Stimulating Italian music Waves 	Free timer**

*Recommended duration of non-drug treatment (manual stop possible if a shorter programme duration is desired)

**Streaming until manually stopped

5 - Starting/stopping a programme

Treatment programmes can be launched from the control panel or remotely from the tablet.



Launching a programme from the control panel

Launching a programme from the tablet

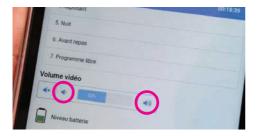
To launch a programme from the control panel, press the button corresponding to the chosen programme. All multi-sensory elements are activated simultaneously: video, music, fragrance, water bubble panel, and fibre optic cables.

To stop a programme, press the button of the current programme.

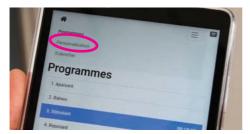
To change the programme, press the desired programme. It is not necessary to stop the current programme to change the programme.

6 - Operation with the tablet

You can start the programmes from the tablet by selecting the name of the desired programme.



To adjust the audio, press or hold the volume buttons.



The default programmes cannot be changed (except for adjusting the volume). Only the free programme can be customised. In order to do this, go to the menu, then choose «Customisation».



Fill in the «User name» and «Password» fields with the word «user». Confirm by clicking on «Connect».



You can now choose a video, with or without sound. The video can be repeated in a loop. You can also customise the following:

- the colour of the water bubble panel, with the possibility to create a new colour;
- whether or not to use a fragance;
- the general duration of the programme execution with a progressive rise or fall of sound.

Once the programme has been set, press «Save». The message "Successfully saved" will appear. You can now start the free programme from the control panel or the tablet.

If the tablet enters sleep mode, you can reactivate it by double tapping the screen.

7 - Use in balneotherapy

The Satellite[®] trolley is completely waterproof and can be used in balneotherapy. Before using the trolley, drawers must be closed. Be sure to remove the tablet and close the dome to protect the projector from water.

It is strictly forbidden to charge the trolley when using it in balneotherapy in order to avoid any electrical danger.

8 - End of treatment session

When the treatment session is over:

- Turn off the trolley by pressing the On/Off button for 5 seconds. The button will flash for several seconds before the trolley is turned off.
- It is not necessary to turn off the projector, as it turns off automatically when the trolley is turned off. Check that the dome is locked and keep the key in the drawer under the control panel.
- Switch off the tablet and connect its power cable in order to recharge it.
- Close the door and set the lock.
- If the trolley is not going to be used for several days, we suggest turning the circuit breaker to "OFF" to prevent the battery from discharging.
- Fasten fiber optic strand with the 3 provided velcro and roll up the optic fibre cable on its holder.
- Put the protective cover on.

The trolley should be stored in a conditioned place.

9 - Charging the trolley

It is possible to charge the trolley while it is being used for treatment. However, in order to avoid any electrical danger, it is strictly forbidden to charge the trolley while using it in balneotherapy.



On the tablet, there is an indicator that shows the remaining battery life. When the battery level of the trolley is below 30%, the On/Off button on the control panel will flash rapidly.



To recharge the trolley, the circuit breaker must be set to «ON».



In the drawer below the control panel, there is a key with a key ring with the image of a battery. Using this key, unlock the bottom drawer where the batteries are located. Unwind the charging cable and plug it to a mains socket.

During the charging process, an indicator light in the lower drawer will show the charging status of the batteries. In autonomous mode, this light will be off when the trolley is unplugged.



- Battery level: less than 80 %
- Battery level: between 80 and 98%
- Battery level: 100% (charging is complete)

To charge the tablet, the trolley must be turned on. Make sure the tablet's power cable is plugged in.



10 - Essential oil refill

If the water/essential oil mixture is too low, it must be refilled. To do this, remove the lid of the cup. Then fill the cup with water and add six drops of the essential oil corresponding to the programme.

Programme	Essential oil description	PRATICIMA reference
Soothing	Sweet orange	9T202
Balneo	Marjoram	9T203
Stimulating	Lemon	9T204
Relaxing	English lavender	9T200
Night	Relaxation (synergy: lavender/Roman chamomile/orange blossom)	9T201
Before meal	Petitgrain paraguay	9T205



Clip the lid of the cup shut and place the cup back in the trolley.

After filling up the cup, close the essential oil bottle and store it in its place inside the trolley.

Depending on the frequency of use of the trolley, it will be necessary to change cups and wicks.

Essential oils are powerful products. Handle them with care, as they can cause burns to the skin and mucous membranes. Strictly observe the indicated dosage. Do not leave them accessible to people under treatment.

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke near essential oils. If swallowed, get medical attention immediately.

11 - Water bubble panel refill



When the water level has dropped, the water panel can be filled through the hole at the top of the panel.

To do this, use a tool to pour water into the panel (such as a wash bottle) and fill it to the « MAX » sticker. We recommend using demineralised water.

▶ 12 - Cleaning

Before cleaning, make sure that the trolley is not being charged.

The trolley and the fibre optic wires can be cleaned with ready-to-use products for cleaning and disinfecting surfaces, such as Surfa'Safe, Anios DDSH or Wip'Anios. It is also possible to use concentrated products at a 0.25% dilution and applied with a wipe: Surfanios, Surfanios Premium, Aniosurf or Aniosurf Premium.

The dome and the water bubble panel should only be cleaned with a microfibre cloth and clean water. The use of detergents or alcohol-based products on the dome may cause the material to bleach and crack.

The fibre optic wires should also be cleaned with a microfibre cloth.

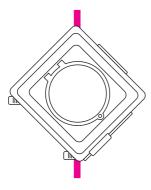
Test carried out with Surfanios diluted according to the recommendations of the product instructions (0,25%).



13 - Moving instructions

When moving the trolley, make sure that the drawers are closed and that the door is locked. The power cable should be stored in its drawer. We recommend storing the keys in the first drawer under the control panel.

The fibre optic cable must be rolled up on its support to avoid damage and so that the person handling the trolley does not trip with it. The dome must be closed to prevent damage.



When entering/exiting lifts and door sills, to ensure stability, the trolley should be moved diagonally, that is, one wheel should go after the other.

The trolley is a delicate product that must be handled with care, especially when turning, passing through doors or on slopes, so as not to collide with a person

Door sill

14 - Main risks

Risks	Recommended actions
Poor conditions for moving the trolley	Before moving the trolley, follow the recommendations in the operating instructions
Charging the truck in wet environments	Observe the warning on the drawer where the charging cable is stored
Improper use of the equipment	Use the protective cover, when the trolley is not in use Nursing staff must be present when the trolley is in use
Chemical risk linked to essential oils handling	Observe the handling recommendations provided in the instructions for use

15 - Inspection and maintenance

Inspection

Checks to be performed	Frequency
Bubble cleanliness and clearness	During each use
Operation of the essential oil diffusers	Twice a month
Condition of the batteries in the combination lock	Once a month
Level of the water bubble panel	Once every 6 months
Condition of the charging cord	Before each recharge
State of charge of the batteries	During each use

Maintenance

During the warranty period, maintenance will be carried out exclusively by PRATICIMA.

Beyond the warranty period, an expert assessment by PRATICIMA is necessary.

Any intervention on the electronic system (console) and the replacement of the battery must be carried out by a person trained and authorised in electrical safety. Before performing any maintenance, it is necessary to disconnect the trolley.

PRATICIMA shall not be liable for any mechanical or electronic modification of the product.

16 - Operation failures

If the appliance does not work:

- Check that the appliance is plugged in and check that the charge is working (battery drawer light).
- Check the wall socket by plugging in a different appliance.
- Check that the battery switch is set to "ON".

In case of malfunction of the device:

- Check the battery charge status (via the tablet).
- Check that the projector is switched on (light).
- Check that the trolley is turned on (On/Off button, LED on).

If the problem is not solved, call a competent person. Do not attempt to repair the appliance alone.



17 - Warranty

- 5 years: structure (material and manufacturing defects) excluding maintenance parts, and excluding supplies
- 1 year: electronic components, maintenance parts, accessories
- 6 months: batteries

18 - Recycling

Electrical and electronic devices, as well as essential oils, must be discarded properly to avoid toxic effects on the environment.

According to national regulations, this appliance cannot be discarded as normal household waste.

Therefore, at the end of its life cycle, the appliance must be discard separately to allow the reuse of its parts and to avoid potential health damage.

Anyone who illegally discards this device will be subject to penalties according to the applicable laws.

When dismantling the equipment, the waste must be disposed of according to the applicable regulations:

- Metal parts can be recycled.
- ABS parts can be recycled.
- The electrical and electronic components (lead battery, wiring, processor...) must be processed in authorised recycling channels.
- Essential oils must not be discarded into the sewage system or into the natural environment. They must also undergo special treatment in accordance with legal regulations.

19 - Technical specifications

Dimensions





Structure mechanical features

Materials

Tablet	Chemically treated ABS/PMMA, grey colour
Video bubble	Translucent PMMA
Cabinet/door	Epoxy treated aluminium
Drawer and control panel	Compact laminate, 8 mm thickness, grey
Fibre cable reel/ tablet support	Epoxy treated steel
Covering	Calendered rubber PVC film of 70 microns with acrylic adhesive coating

Locking system

Drawers	Combination lock
Technical drawer (batteries)	Key lock with different number combination
Bubble with projector	Key lock with different number combination

Miscellaneous

Wheels	Diameter: 125 mm, 2 wheels with brakes + 2 caster wheels Caster wheels with double locking system	
Capacity	3 drawers for accessories	
Maximum load capacity	6 kg per drawer	
Empty weight of trolley	76 kg	
Maximum load capacity	20 kg	
Maximum slope	10°	

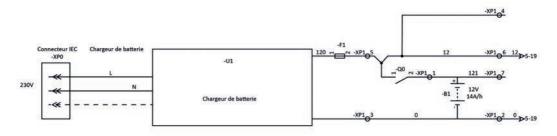
Electrical characteristics of the trolley

Power supply	Batteries: 12 V - DC/3 A - 36 rW (disconnect switch that makes the circuit safe) Charger: Input 220-240 V AC - 50-60 Hz - Max. 2,1 A (protected by fuse)
Current	3 A
Voltage	12 V
Battery technology	Lead
Number of batteries	2
Type of mounting	Parallel
Voltage for 1 battery	12 V
Capacity for 1 battery	14 Ah
Charging time	6-7 hours
Protection class	IP 44
Antenna	WIFi – 2,4 GHz
Electronic board	Raspberry
Applicable standards	Directive 2014/53/UE EN 300 328 EN 301 893

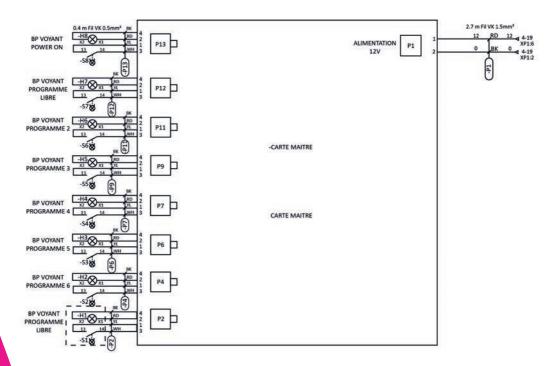


> 20 - Electrical schematics

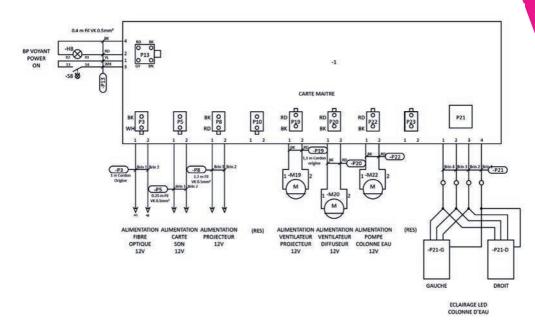
Battery charger



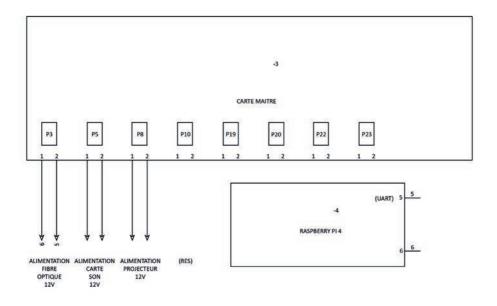
Master board – Push button wiring



Master board - Outlet wiring



Master board – Interboard connections





> 21 - Materials used

Water bubble panel

Materials	PMMA XT type, resist 16-64, honeycomb pattern
Dimensions	L. 330 x H. 85 x D. 19 mm
Power supply	Air pump of 12 V DC
Lighting	Two 12 V RGB adhesive LED strips
Contents	Mixture of demineralised water and 5% bleach
Hoses	60° shore silicone



Fibre bloc

Dimensions	L. 160 x H. 120 x D. 60 mm	
Power supply	12 V DC	
Fibres	150 fibres with a diameter of 0.75 mm 2 metres long	
Lighting	RGB through the fibres	10



Speakers

Frequency	60 - 15 000 Hz		
Diameter	Ø 180 mm		
Impedance	4 Ohms		
Power (RMS max)	60 / 80 W		
Protection class	IP 65		
Materials	Plastic grid and membrane		



Projector

Туре	LCD		
Resolution	320 x 240		
Lamp	400 - 600 Lumens		
Image format	4:3		
Projection	Projection 24 to 60 inches		
Power supply	Power supply 12 V - 2 A		
Dimensions	L. 135 x D. 100 x H. 60 mm		
Connections	НДМІ		



Essential oil diffusers

Contents	120 ml transparent cup		
Lid	Injected ABS - Clip on		
Diffuser	Nebuliser membrane		
Operation	controlled by electronic card		
Power supply	ower supply 12 V		
Dimensions	nensions Ø 50 x H. 96 mm		
Wick	Cotton		



Touchscreen tablet

Modele	Lenovo Tab M7	
Operating system	Android 11	
Screen	7-inch touchscreen LCD	
Capacity	32 Go	
Communication	WI-FI AC	
Dimensions	L. 102,8 mm x H. 176,2 mm x D. 8,3 mm (excluding protective case)	
Power supply	3750 mAh Lithium-ion battery Battery life 10 hours	
Connector	Micro-USB 2.0	





Trolley accessories

For carts ordered with the accessory kit

Kalimba with 9 blades



Kalimba tuned to La4-Do5-Do4-La4-La3-Fa4-Mi4-Mi5-Si4. This musical instrument is held in both hands and played with the tips of both thumbs. It is perfectly tuned and its synthetic skin provides a brilliant sound. This instrument can be played between the hands or laid down, which offers more volume and variation.

Dimensions :

L. 19,8 cm x l. 15,8 cm x H. 4,4 cm

Touch ball



This coloured ball enables to awaken the senses thanks to its pins! Ideal for a body massage in order to provide a real moment of wellbeing and relaxation and to make the patient aware of his / her body. Covered with bulges, it can be also used for sporting purposes.

Diameter: 12 cm Made of PVC Latex-free Colour according to stock

Vibrating pillow



This vibrating pillow is very nice to touch thanks to its white fabric with fur effect. The soft vibrations facilitate relaxation and work very good to calm over-stimulated patients down. The switch allows to choose between 2 vibration intensities or a use without any vibrations.

Removable cover washable in washing machine

Works with 2 LR06 included batteries Dimensions: 30 x 30 cm

Linseed Weighted Mats



A small weighted mat filled with natural flax seeds that can be heated in the microwave and cooled in the fridge.

Removable cover for easy maintenance Navy blue color Dimensions: 50 x 34 cm Weight: 1.255 kg

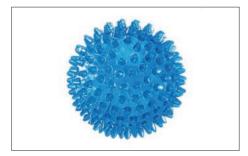
Sensory blanket



This blanket is suitable for sensory perception disorders. On one side, a very soft surface with small bumps invites exploration and cocooning. The front side is made of different materials to arouse the user's interest and curiosity.

Dimensions: 80 x 80 cm

Hedgehog ball



Their small spikes help you relax and feel a sense of well-being. You can have fun rolling them between your palms. Use them in a massage all over the body to stimulate the tactile and proprioceptive sensory systems.

Diameter: 6 cm Made of PVC Colours according to stock

Light up eggs



Set of 3 light up eggs with subtle colour changes and a relaxing luminosity. This is a beautiful, smooth and light object that invites tactile and visual exploration in a multi-sensory environment.

It operates on 3 button batteries (included) LED bulb Dimensions: 9 cm



> 22 - Spare parts

It is absolutely essential to use spare parts recommended by PRATICIMA for repairs or replacements. If you do not follow these instructions, we will not be held liable for any malfunctions.

N°	Name	Reference	Photo
01	Video projector bubble	ACC9T011	
02	Constant torque hinge	QUI9T002	
03	Touchscreen tablet Lenovo M7	QUI9T012	
04	Projector 12V	QUI9T011	
05	Speaker Visaton 12V	QUI9T010	
06	Fibre Block 12 V - Length: 2 m	QUI9T009	
07	Charger	QUI9T037	
08	Battery	ACC9T036.001	
09	Scent diffuser	ACC9T052	
10	Diffuser fan	QUI9T042	
11	Water panel air pump	ACC9T035.003	
12	Combination lock	23110.GR	000000
13	Master circuit board	QUI9T040	
14	Diffuser circuit board	QUI9T038	

> 23 - Certificate of compliance

This appliance has been manufactured in accordance with the following European Directives:

- Directive 2006/42/EC on machinery EC Declaration of Conformity
- Safety of machinery Electrical equipment of machines standard EN 60204-1
- Directive 2014/35/EU and its amendments Low voltage electrical equipment
- Guide to the EMC Directive of 19 December 2018
- Directive 2014/30/EU and its amendments Electromagnetic Compatibility (EMC)
- Residential, commercial and light industrial environments generic standard:EN 61000-6-1:

o EN 61000-6-1 : Immunity

- o EN61000-6-3 : Emission
- Directive 2014/53/EU and its amendments Radio equipment (RED)
- ETSI standards for broadband data transmission systems o EN 300 328 : 2,4 GHz band o EN 300 893 : 5 GHz band

The Satellite® multi-sensory care trolley is a Class I medical device.

> 24 - Assistance



On the touch tablet of the Satellite[®] trolley, you can find this technical manual as well as video tutorials. To access it, open the menu and click on «Help».

Videos can be displayed in full screen by clicking on this icon.





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