

# LuMon™ System Quick Reference Guide



## Adult patient type

for LuMon™ Monitor with software versions GUI 2.0.xx  
TIC 1.7.x.xxx and for patients with chest circumference  
matching LuMon™ belt sizes 80–155 (76–166 cm)



## Belt application and initiating monitoring

Complete the Pre-Application Checklist for the LuMon™ Belt:

**Proper Positioning:** Check the height where the 4th and 5th intercostal spaces meet the sternum; this is the intended application area. At this level, the belt should be positioned transversally.

**Skin Check:** Ensure that the intended application area of the patient's skin is intact and free of injury, irritation, liquid, or bandages.

**Avoid Nipple Line:** If possible, verify that the application area avoids the nipple line for patient comfort and proper belt function.

**Diaphragm Consideration:** Verify that the application area is above the diaphragm to avoid interference.

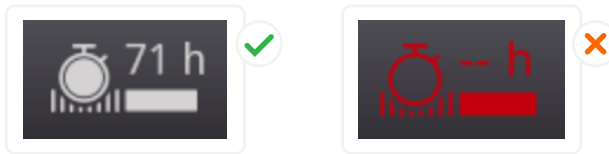
Remove all material and wipe away any fluids around the thorax where the striped fabric of the belt will be placed. Refer to the instructions included in the packaging of the LuMon™ Belt to perform the following three steps:

- 1 **Measure half the chest circumference** at the identified application area from the center of the spine to the center of the sternum using Measuring Tape - Large. If there are two possible belt sizes for a particular chest circumference, choose the smaller size as this will ensure good electrode-skin contact.
- 2 **Obtain a LuMon™ Belt of the recommended size** and apply LuMon™ Contact Gel to the striped fabric on the patient-facing side. Use your finger to spread the gel across the entirety of the belt. To increase patient comfort, you may warm up the LuMon™ Contact Gel to normal body temperature prior to use.
- 3 **Apply the LuMon™ Belt to the patient** and connect it to the LuMon™ Connector. Route the belt cable and the LuMon™ Connector away from the patient.

Select "New Patient" to enter new patient parameters or "Previous Patient" to automatically load the parameters of the last patient monitored. On the Patient Data Screen enter the patient parameters and press "Confirm."

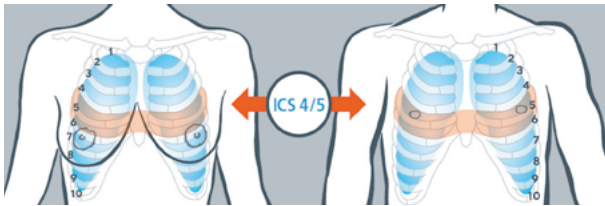
## Checking proper setup

Check the belt time remaining on the Navigation and Status Bar (top of screen) and replace the belt as needed. Check and, if necessary, set the monitor's date and time.

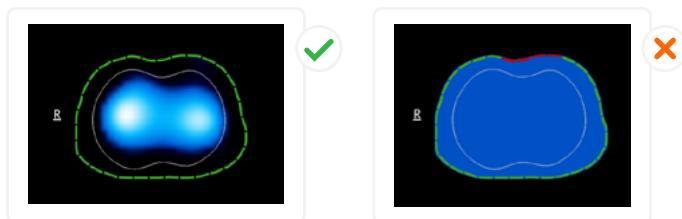


Verify the belt positioning and a snug fit of the belt on the skin. If tightening the fit of the belt, ensure not to restrict breathing.

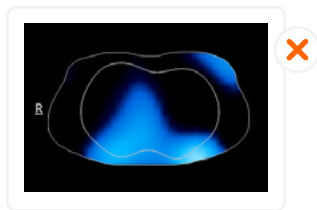
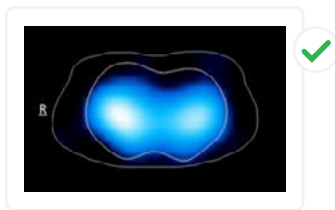
The LuMon™ Belt is positioned correctly when the belt is positioned transversally at the height of where the 4th and 5th intercostal spaces meet the sternum.



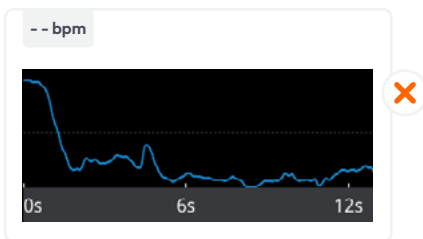
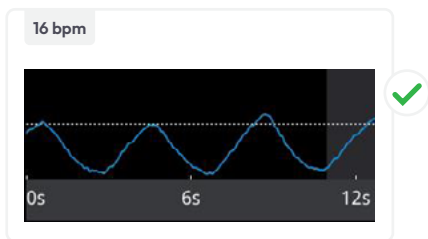
- Verify that the patient data entries on the LuMon™ Monitor correspond to those of the actual patient.
- Verify that the displayed rotation image reflects the patient's position. If the displayed rotation does not match the patient's rotation, use the position correction feature on the Patient Data Screen
- Verify the contact quality around the thorax. Although monitoring is possible if there are a few red electrodes, the electrodes should preferably be green and status messages related to artifact or interference should not be present.



Verify that the movie-like display of Dynamic Images reflects breathing-related impedance changes mainly within the functional reference regions of interest.



Ensure there is adequate breath detection as indicated by the grey highlighted rectangle in the Plethysmogram. If breathing is irregular and breaths are not detected, try changing the analysis mode from BB to TB.



Once these conditions have been met, press "Start Session" to begin monitoring.

## While monitoring the patient

- Ensure belt-to-skin contact remains stable, and the electrodes remain green throughout monitoring.
- Ensure that breaths are being detected throughout monitoring.
- If an external device is connected to the LuMon™ Monitor, ensure that it is properly configured in the Settings menu and real-time values from the external device are displayed on the External Input Pane (click "<" on right side of screen to access).
- Use a combination of live screens and trended screens to view current and historic recorded data. Use the drop-down navigation menu in the top left-hand corner or swipe left and right to switch between live and trended screens.

## Troubleshooting

To resolve belt to skin contact quality issues, apply additional LuMon™ Contact Gel to the LuMon™ Belt, tighten the belt straps, and/or remove items (bandages, sensors) between the belt and skin.

Issues with breath detection and images outside of the functional reference regions of interest could be explained by poor belt-to-skin contact quality, interference from other devices, patient motion, atypical anatomy, and incorrect belt position. Consult the Instructions for Use for more information.

## Ending patient monitoring

- Disconnect the disposable LuMon™ Belt from the reusable LuMon™ Connector.
- LuMon™ Belts are single-use. Remove the LuMon™ Belt from the patient and dispose of it according to local regulations for medical waste.
- Wipe off LuMon™ Contact Gel residues from the patient.
- Switch the monitor off and perform cleaning and disinfection actions on the monitor and LuMon™ Connector before use on the next patient.

## Warning

- **The LuMon™ System is to be operated by trained health care personnel.** Personnel operating the LuMon™ System should have read and understood the Instructions for Use, accessory directions for use, all precautionary information, and specifications before use. Improper use of the LuMon™ System may result in injury, inaccurate measurements and/or damage to the device.
- **The LuMon™ System is not intended for diagnosis,** it is intended only as an adjunct in patient assessment. It must be used in conjunction with clinical signs and symptoms.



Refer to the LuMon™ System Instructions for Use for warnings, cautions, and additional information such as troubleshooting and maintenance recommendations: [www.sentec.com/product-support/eit/](http://www.sentec.com/product-support/eit/)



Sentec AG  
Kantonsstrasse 14  
7302 Landquart  
Switzerland



LuMon™ Monitor  
LuMon™ Connector

0483



LuMon™ Belt  
LuMon™ Contact Gel

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