



HB100

Quick guide



HB100 Weighing Solution

The HB100 is an intelligent hand control with the LINAK® Weighing Solution. It features a full navigation menu keypad, thus allowing the display to be dynamic without physically having to change the hand control. The 2.4" colour display will automatically scan the system and only show the features available, to create a user-friendly experience. This quick guide explains all HB100 features.

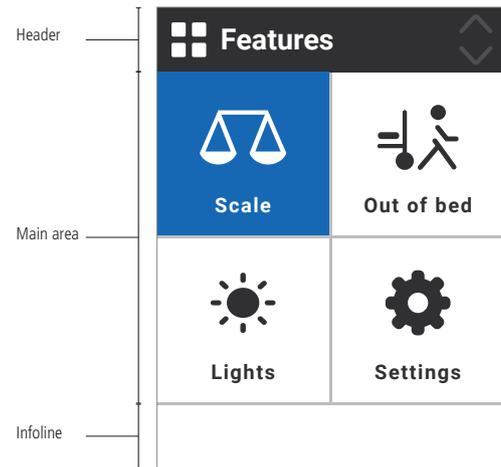
Table of contents



Overview.....	4
General menu description.....	5
Main menu.....	5
List menu	5
Edit mode.....	6
Pop-ups.....	6
Feature descriptions	7
Scale	7
Out of Bed.....	8
Lights	9
Settings.....	9
Error list	10-15

Functionality

On the first HB100 start-up, and subsequently each time the power supply has been disconnected, an automatic scan of the systems starts after which the HB100 is then ready for use. The scan ensures that only connected devices are visible on the display. The blue focusing colour indicates the screen area that is currently selected.

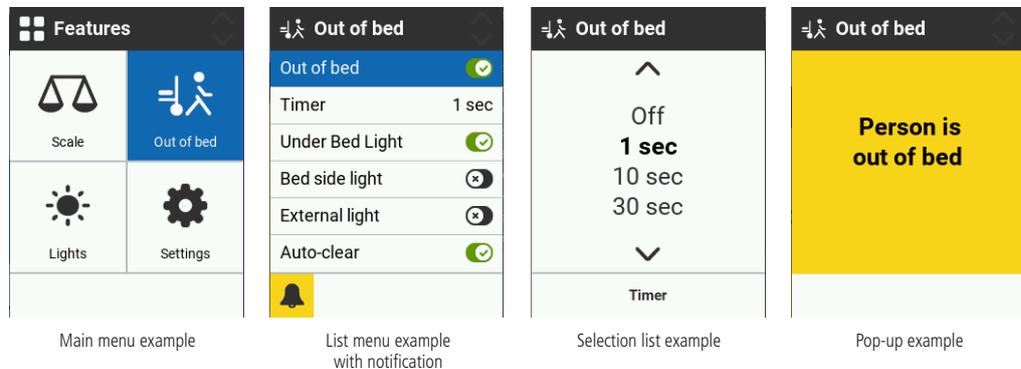


Header: The header contains an icon, a headline of the current menu, and an up/down arrow showing if more items are hidden below or above what is shown in the main area. When nothing is hidden, the arrows are faded. The header is always visible.

Infoline: The infoline is used to give the user information about the feature without having to enter the menu. The far left side of the infoline is used to show notifications and errors. The infoline is always visible.

Main area: The main area has four different views:

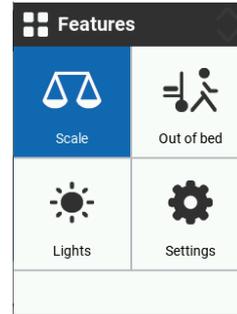
1. Main menu (tiles)
2. List menu
3. Selection list
4. Pop-ups



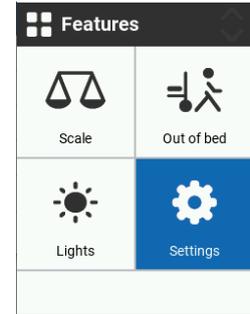
General menu description

Main menu

The main menu is divided into four tiles and can be navigated by the arrow keys. It can contain from 1 to X tiles, but only four can be seen at a time. If some features are hidden, they can be accessed by pressing the down key twice or more.



Main menu with
Scale tile selected



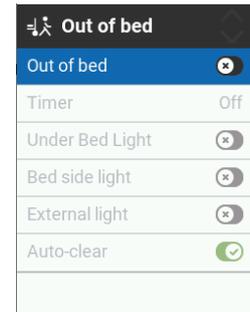
Main menu with
Settings tile selected

List menu

The list menu can have from 1 to 6 visible items at a time. List items can have two main functions: toggle (e.g. on/off) and go to Edit mode (e.g. a timer). Some features need to be turned on before other settings can be set. When the feature is off, list items will be in a greyed out state and cannot be accessed.



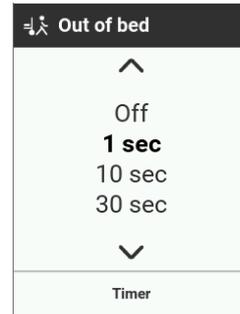
List menu with 3 items



List menu with
disabled list items

Edit mode

The Edit mode is accessed through the List menu. The list will focus on the selected item and is navigated by using the up/down arrow keys. Press OK to confirm choices.



Edit mode with more than 4 entries

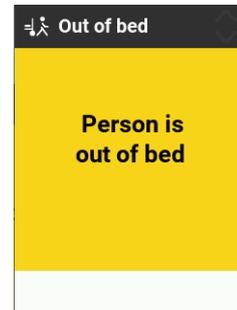
Pop-ups

Pop-ups occur when the user needs to take action. There are three pop-up types.

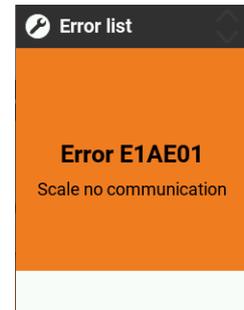
- 1. User instructions:** These are messages to the user, asking him/her to wait or accept certain changes.
- 2. Notifications:** Notification pop-ups occur when you enter a menu with a notification.
- 3. Errors:** The error pop-up will be shown when an error/user error occurs.



User instruction: Confirm that you want to zero the weight.



Notification: Confirm that you have seen the notification.



Error: User error

Feature descriptions

Scale

The Scale feature is used to monitor the patient weight. The Scale menu itself is a special list menu view with focus on showing the patient weight. The list contains up to four items, depending on calibration.

- **Scale on/off:** Turns the feature on or off.
- **Zero:** Zeroes the bed. The bed can only be zeroed if the weight is below 50 kg (This value can be changed when calibrating the bed)
- **Auto-compensate:** Is used to add/remove items from the bed, such as a new pillow or equipment, without impacting the patient weight.
- **High precision:** Only accessible if the calibration is made with a value other than 100 g precision ($e=0,1$). Pressing the high precision will show a 100 g weight for 5 seconds and then return to showing for instance 500 g again.

The marking plate shows the range in which the Scale will measure and if it supports kilograms and pounds. Values are determined by the QLC12 and how it is calibrated.

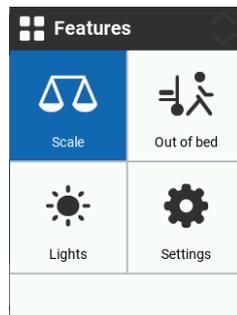
Min.: Minimum weight to be measured

Max.: Maximum weight to be measured

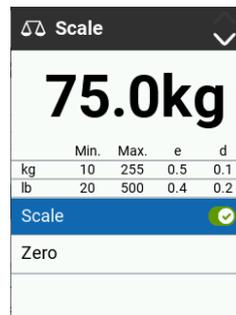
e: Weight resolution

d: Detailed weight resolution (only visible when $e \neq d$)

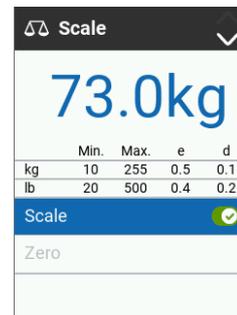
To use the Scale feature, a QLC12 must be connected to the system.



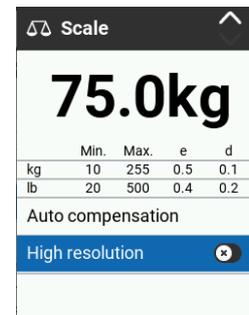
Main menu with
Scale tile selected



Scale menu



An unstable weight is
displayed with a light blue
font. List items are greyed
out

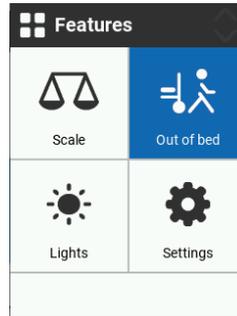


Full marking plate with kg
and lb support. Calibrated
with $e = 0.5$ kg

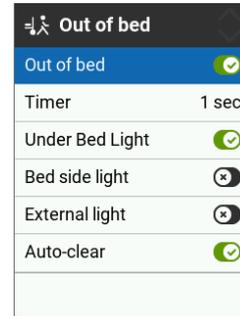
Out Of Bed

The Out Of Bed feature is used to set what happens when the patient leaves the bed. The Out Of Bed menu contains up to six items, depending on connected accessories.

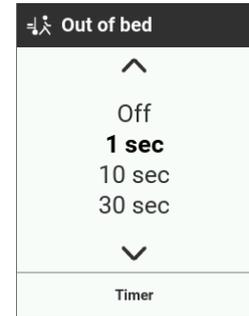
- **Out Of Bed on/off:** Turns the feature on or off.
- **Timer:** The timer determines how much time will pass before a signal is sent via a gateway.
- **Under Bed Light:** Possible to toggle between on/off. Activates when the patient leaves the bed and requires an Under Bed Light.
- **Bedside Light:** Possible to toggle between on/off. Activates when the patient leaves the bed and requires a Bedside Light.
- **External Light:** Possible to toggle between on/off. Activates when the patient leaves the bed and requires a gateway connection to an External Light.
- **Auto-clear:** Possible to decide if the Out Of Bed notification should be removed automatically when the patient returns to the bed. The default setting is on.



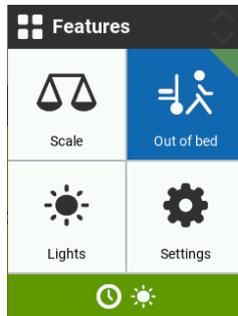
Main menu with Out Of Bed tile selected



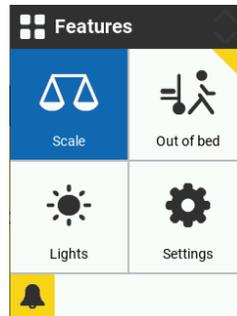
Out Of Bed menu



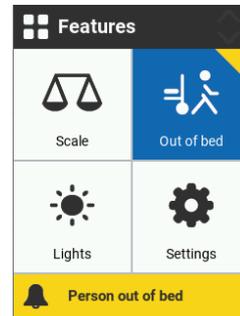
The timer to send a gateway signal can be set in values from 1 second to 60 minutes



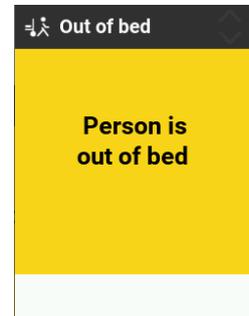
When selecting the OOB tile, the infoline will show if the timer or a light is enabled



When the patient leaves the bed, a notification icon will appear



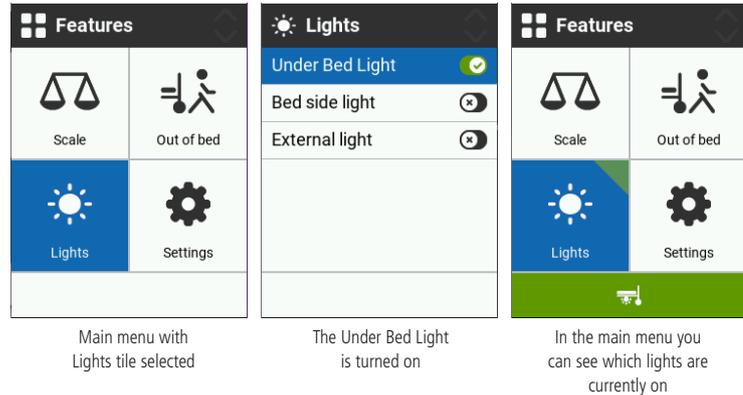
When selecting the Out Of Bed tile, the infoline will show the notification content



When entering the menu, you need to accept to have seen the notification. If auto-clear is enabled, this is not shown if the patient has returned to bed

Lights

- **Under Bed Light:** Toggle on/off. Requires an Under Bed Light.
- **Bedside Light:** Toggle on/off. Requires a Bedside Light.
- **External Light:** Toggle on/off. Requires a gateway connection to an External Light.



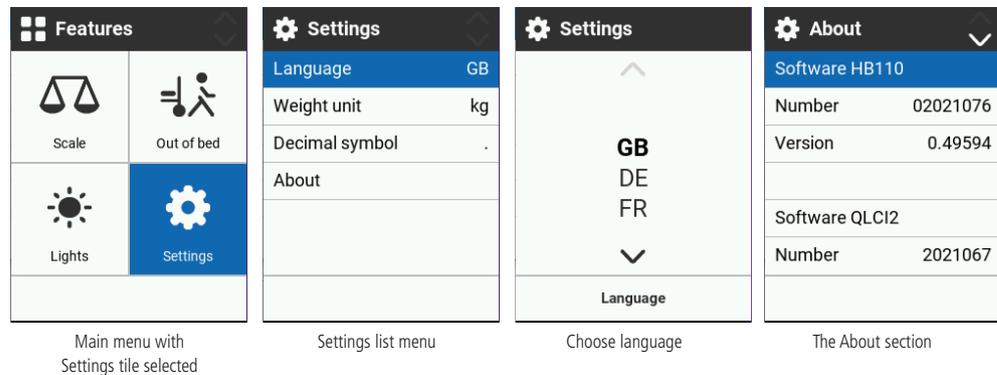
Settings

- **Language:** Choose system language. (English, Danish, German, Spanish)
- **Weight unit:** Choose kilograms or pounds. The list item is only visible if the calibration supports pounds.
- **Decimal symbol:** Choose between a comma or dot.
- **Gateway signal:** Choose how the gateway signal is sent, either pulse or follow. In case of an event using the gateway, such as a person leaving the bed with Out Of Bed active:

Pulse: Sends a signal via the gateway and shuts off. Will send a new signal when the person returns to bed.

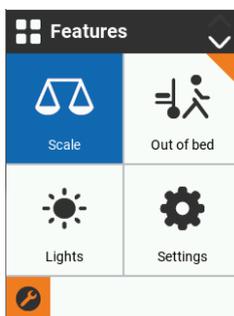
Follow: Will keep sending a signal as long as the person is out of bed.

About: It is possible to see the software number and to do a verification of the scale system.

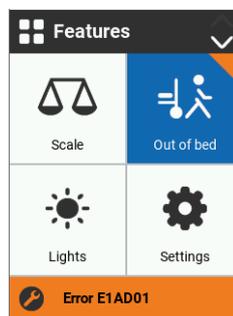


Error list

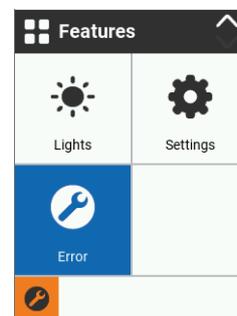
If an error occurs, the system will disable part of the functions, and a brief error description will be available.



Out Of Bed error. The error icon will appear in the bottom left corner



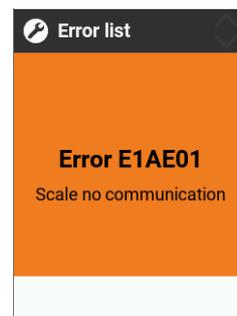
When selecting the tile with the error, an error code will be shown



At the bottom of the main menu, the Error list menu will become visible



If there are multiple errors, they will be shown in list form



A short error description

Error list

General

ID	Long text	Troubleshoot
E1AA01	OpenBus™ is inactive	Check cables (OpenBus™)
W1AA01	System is running on battery	Reconnect the system to mains
W1AA02	System is on hold	Deactivate on hold

OOB feature

ID	Long text	Troubleshoot
E1AD01	Communication error	Turn Out Of Bed on/off
E1AD02	Out Of Bed is not ready	Check system for errors on Out Of Bed
E1AD03	Backrest is too high	Current backrest position doesn't allow OOB monitoring, run the backrest down
E1AD04	Load cell 1 failure	Check loadcell 1 connections
E1AD05	Load cell 2 failure	Check loadcell 2 connections
E1AD06	Load cell 3 failure	Check loadcell 3 connections
E1AD07	Load cell 4 failure	Check loadcell 4 connections
E1AD08	Scale not calibrated	Calibrate system
W1AD01	Out Of Bed missing	Check connections and restart system

Error list

Scale feature

ID	Long text	Troubleshoot
E1AE01	Communication error	Turn Scale on/off
E1AE04	Load cell 1 failure	Check load cell 1 connections and calibrate system
E1AE05	Load cell 2 failure	Check load cell 2 connection and calibrate system
E1AE06	Load cell 3 failure	Check load cell 3 connection and calibrate system
E1AE07	Load cell 4 failure	Check load cell 4 connection and calibrate system
E1AE08	Scale not calibrated	Calibrate system
E1AE09	Incorrect calibration	Calibrate system again
E1AE10	Checksum fails	Communication error
U1AE01	Overload	Please remove weight from the bed

Error list

Scale feature

ID	Long text	Troubleshoot
U1AE02	Insufficient load	Please add weight to the bed
U1AE03	Weight unstable	Make sure the weight is stable
U1AE04	Compensation weight is above maximum	Please remove weight from the bed and try again.
U1AE05	Compensation weight is below minimum	Please add weight to the bed and try again.
U1AE06	Zeroing is above maximum limit	Please remove weight from the bed and try again.
W1AE01	Scale feature is missing	Check connections and restart system

UBL feature

ID	Long text	Troubleshoot guide
E1AF01	Under Bed Light missing	Check connections and restart system
E1AF02	Under Bed Light missing	Check connections and restart system
W1AF01	Under Bed Light missing	Check connections and restart system

Error list

BSL feature

ID	Long text	Troubleshoot
E1AG01	Bed Side Light not connected	Check Bed Side Light connections
E1AG02	Bed Side Light error	Check connections and restart system
E1AG03	Bed Side Light voltage error	Check connections and restart system
E1AG04	Bed Side Light current error	Check connections and restart system
E1AG05	Bed Side Light temperature error	Let system cool down and restart system
E1AG06	Bed Side Light power error	Check connections and restart system
W1AG01	Bed Side Light missing	Check connections and restart system

EXL feature

ID	Long text	Troubleshoot
E1AH01	External Light not connected	Check External Light connection and cable
W1AH01	External Light missing	Check connections and restart system

TERMS OF USE

The user is responsible for determining the suitability of LINAK products for a specific application. LINAK takes great care in providing accurate and up-to-date information on its products. However, due to continuous development in order to improve its products, LINAK products are subject to frequent modifications and changes without prior notice. Therefore, LINAK cannot guarantee the correct and actual status of said information on its products. While LINAK uses its best efforts to fulfil orders, LINAK cannot, for the same reasons as mentioned above, guarantee the availability of any particular product. Therefore, LINAK reserves the right to discontinue the sale of any product displayed on its website or listed in its catalogues or other written material drawn up by LINAK.

All sales are subject to the Standard Terms of Sale and Delivery for LINAK. For a copy hereof, please contact LINAK.

LINAK has a world-class sales and service organisation.
Today we are present in 35 countries all over the world.
For further information, please visit our website: [LINAK.COM](https://www.linak.com)

LINAK® 
WE IMPROVE YOUR LIFE