

Hand Control HD600

Data Sheet



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Introduction



HD600 is a versatile hand control, developed to unite innovative ideas with LINAK engineering expertise to deliver the most intuitive hand control experience for advanced medical systems like surgery tables, x-ray tables, and more. The HD600 is based on the LINAK OpenBus™ platform, it has up to 30 buttons and a 2.4" colour LCD display, allowing full functionality of the application.

The HD600 offers various benefits like:

- Design your own display graphics and assign them to any actuator movement or input condition
- Angle and height information can be displayed during movement
- 40 backlight LEDs provide clear visual feedback - perfect for workflow guidance in clinical settings
- A multifunction hook offers universal compatibility and ergonomic comfort for easy integration
- Flexible front cover design including custom button size and placement
- QLCI2 compatibility for live scale readout, weight logging and one-point calibration directly from the hand control



Information

Please be aware that scale and out of bed information requires a scale connection (Quad Load Cell Interface 2 - QLCI2).

Features and options

Housing colour:	Black, RAL 9005
Protection class:	IPX6
Number of buttons:	Up to 30
Button type:	Tactile switches
Magnet lock:	Yes (activated via Hall sensor)
LED indication:	40 individually addressable backlight LEDs
Display panel:	2.4" colour LCD display
Resolution:	240 px (W) x 320 px (H)
Front cover:	Standard or customised
Dimensions:	226.2 mm (H) x 56.6 mm (W) x 54.1 mm (D)
Attachment:	Multifunction hook, compatible with surgical rails and beds (Ø32)
Cable:	Replaceable cable
Background lighting:	Keypad and display



Languages:	• English • German • Danish • French • Spanish • Portuguese • Chinese (simplified and traditional) • Polish • Korean
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Usage

Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 meters
Flammability rating:	UL94V-2
Approvals:	IEC60601-1 IEC60601-1-2 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1



Ordering Example

	H	
Type	D	D = Display
Series	600	600 = HD600
Functionality	00	00 = Standard (incl. std. graphics) 02 = Offset test (only for front cover 002) 01 = Offset demo (incl. std. graphics) XX = Special Note: 00, 01, 02 are designed for CO71 SW 820554
Hall	1	1 = Hall
Front cover	0	0 = Standard X = Special
Front cover number	000	= Last 3 digits in front cover number
Backlight	1	1 = Backlight
Not used	0	0 = None
IP-degree	6	6 = IPx6
	-	
Colour	1	1 = Black RAL 9005
Mounting	1	1 = Multifunction hook
Not used	0	0 = None
Not used	0	0 = None
Not used	0	0 = None
Not used	0	0 = None
Not used	0	0 = None
Not used	0	0 = None
Cable colour	1	1 = Black RAL9005
Plug type	D	D = Modular Jack
Cable material	1	1 = PU
Cable type	C	C = Coiled
Not used	0	0 = None
Not used	0	0 = None

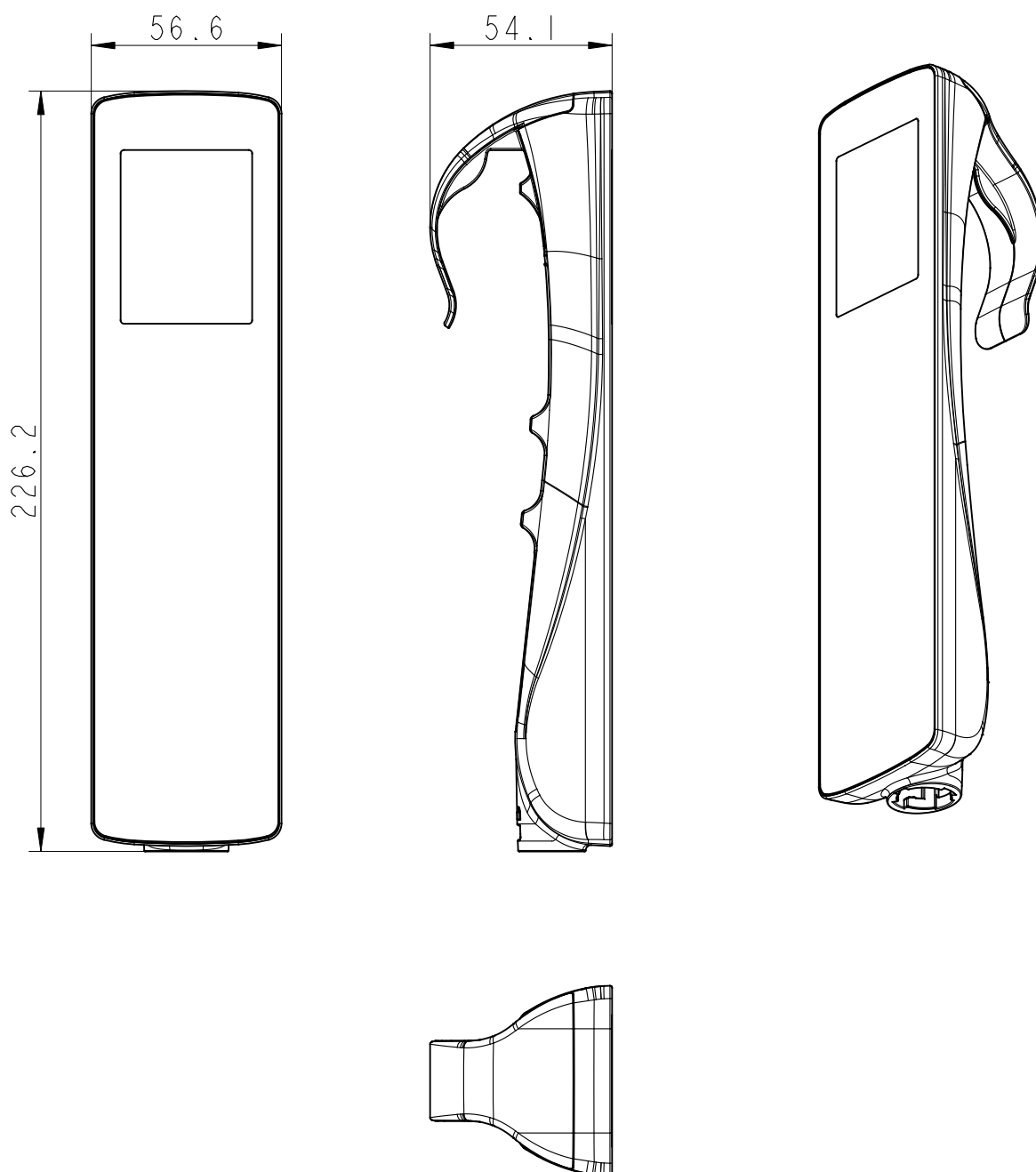
Chosen item number:

HD6000010000106-110000001D1C00



Dimensions

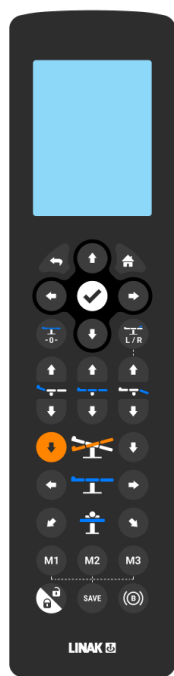
All dimensions are in mm.



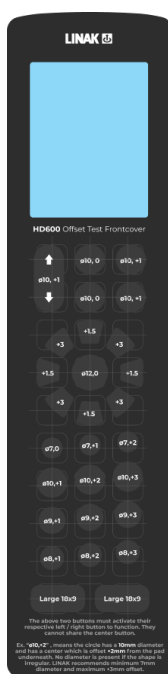
Dimension drawing no.: 1083W4000

Standard front covers

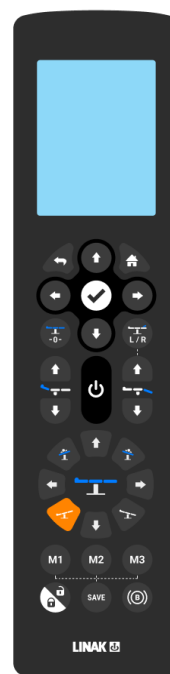
When developing a custom HD600 front cover, LINAK provides a PDF template and an offset test design to guide the process. The HD600 features a standard flat foil front cover without domes or traditional button embossing, thanks to a unique activation membrane that allows for slightly offset buttons with a natural feel. An optional stamped edge embossing can be added around each button to help users locate buttons without visual focus.



Standard front cover
00HD600B-000
Printed externally, includes
transparency



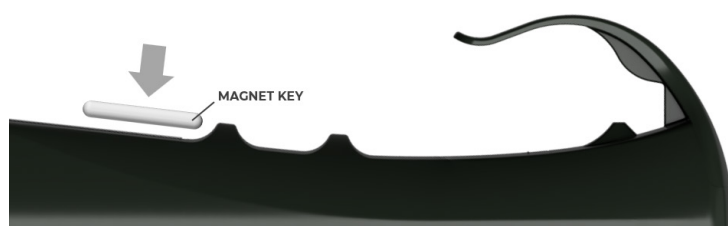
Offset test front cover
00HD600B-002
Printed in-house only
(no transparency for backlight)



Offset demo front cover
00HD600B-001
Printed in-house only
(no transparency for backlight)

Hall sensor

The HD600 Hall sensor can be activated by hovering the magnet key over the rear side of the hand control.

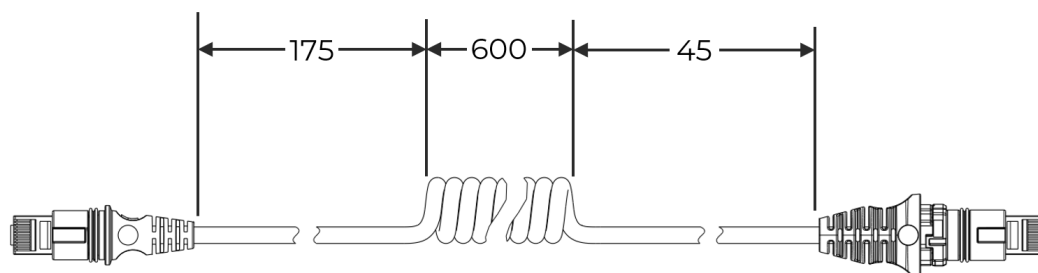


Remember to order magnet key:
Magnet key - ordering no. 0858008
(RAL 7035 light grey).



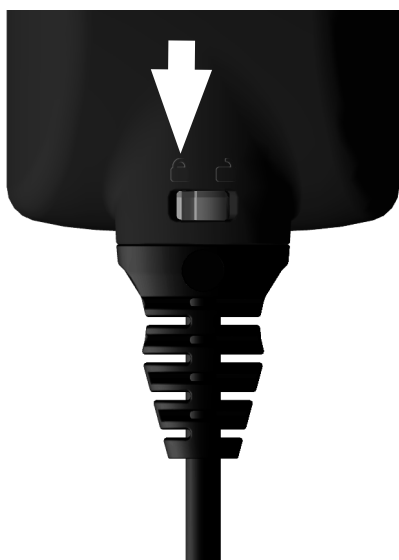
Cable

The HD600 uses an exchangeable OpenBus cable, item number: CAB90217 (cable is included).



Information

Remember to lock the cable by means of cable lock switch:



Multifunction hook

Designed to sit tightly on EU and US surgical rails or Ø32 bed rail while still allowing a 45° tilt without unclipping during operation.



Display customisation

It is possible to customise the display view by specifying the required dimensions and specifications.

However, LINAK does not offer assistance with graphic creation; the OEMs are responsible for providing their own graphics.

The graphics must meet the following 3 requirements:

- Max. 32 colours (NOT bits)
- BMP format
- Main area: 320 x 193 pixels

Limitations

- Maximum 3 pictures per view ID. A maximum of 120 IDs per product can be used in a control box software. It is not possible to create different graphics that are dependant on the language.
- The infoline is locked and there is no option to modify the text and format.
- Customisation is only possible for movement graphics; the menu structure, icons, error codes, and infolines cannot be modified.



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