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Product Features

Storm Assistive Technology Products provide improved accessibility for those with impaired vision, restricted mobility or limited dexterity.

Self-service terminals usually present information about available products or services via an electronic display or touch screen. Presentation of information in this exclusively visual format discriminates against those who are unable to see, read or interact with a touch screen.



NavBar SF™ is a highly tactile interface that makes audible navigation and selection of screen based content possible. NavBar SF is designed for use with the Storm AudioComm Module (supplied separately) which enables audible content to be communicated to the user through a personal headset or cochlea implant. Audible content can be navigated and selections made by pressing the NavBar SF's distinctively shaped tactile keys.

The specific keypad detailed in this document is a smaller footprint (SF) version of other keypads included in the wider NavBar range. NavBar SF is easier for those with limited dexterity to operate and presents an aesthetically less obtrusive installation. NavBar SF is designed for under-panel installation.

Successful implementation of the NavBar SF™ requires compliant customer interface software featuring synthesized or recorded audible voice content.

NavBar SF™ is an RNIB accredited "Tried and Tested" tactile interface device, for use as part of an ADA compliant audible content navigation system.

By use of the NavBar™ utility software, default illumination status and 'wake-up' behaviour can be selected. The USB codes can also be changed. Connection to the host is via a single USB cable.

NavBar

- Keypad has illuminated keys with tactile identifiers.
- Reverse printed silver or black colour front label.
- Designed for under panel installation to a 1.2mm - 2mm panel only.
- Mini USB socket for connection to host computer.

USB Interface

- HID keyboard
- Supports standard modifiers, i.e. Ctrl, Shift, Alt
- No special drivers required

Support

- Windows Utility for changing the USB Code Tables
- API for custom integration
- Remote Firmware update support

Product Range

EZBM-42002



Storm ATP NavBar SF™
Silver with White Keys,
Under panel Install

EZBM-52002



Storm ATP NavBar SF™
Black with White Keys,
Under panel Install

Product Range: Part Numbers

Stock Code	Description
EZBM-42002	Storm ATP NavBar SF™, Silver with White Keys, Under panel
EZBM-52002	Storm ATP NavBar SF™, Black with White Keys, Under panel

Accessories / Cables

Stock Code	Description
4500-01	USB CABLE MINI-B TO TYPE A, 0.9m





Specifications

Rating	5V ±0.25V (USB 2.0), 80mA max
Connection	mini USB B socket
USB Cable	Not Included

Dimensions (mm)

Packed 193 W x 73 H x 40 D 152 g

Mechanical

Operational Life	4 million cycles (min) per key
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Performance/Regulatory

Operational Temp	20°C to +70°C
Impact Rating	1K09 (10J)
Vibration & Shock	ETSI 5M3
Water / Dust sealed	IP65
Certification	CE / FCC / UL / RNIB

Connectivity

This is a USB HID keyboard device and no additional drivers are required.

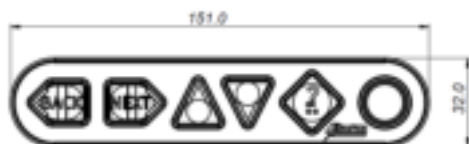
PC based software utility and API are available to set/control: -

- Illumination level
- Customise the USB codes

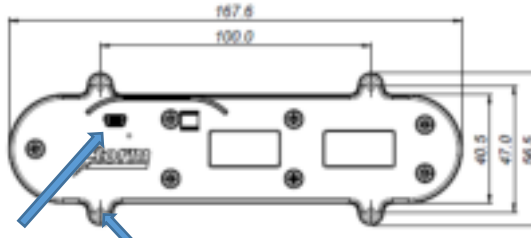
Installation

The NavBar SF™ is for under panel installation (panel thickness of 1.2mm - 2mm only.) .

Front View (installed) with dimensions



Back View with dimensions



USB Mini-B Socket

Fixing positions x 4

USB Device Information

USB HID

The USB interface is USB HID keyboard.

Code Tables

The factory defaults are shown below. You can use the Windows utility to assign any HID USB code

Function	HID USB Code	Hex	LED Illumination
Back	F21	0x70	White
Next	F22	0x72	White
Up	F18	0x6D	White
Down	F19	0x6E	White
Help	F17	0x6C	Blue
Select	F20	0x6F	Green

Windows Utility**System Requirements**

The utility requires .NET framework to be installed on the PC and will communicate over the same USB connection but via the HID-HID data pipe channel, no special drivers are required.

Compatibility

Windows 11 ✓
Windows 10 ✓

The utility can be used to configure the product for:

- LED brightness (0 to 9) 0 – off and 9 – full brightness.
- Load customised NavBar™ table.
- Write default values from volatile memory to flash.
- Reset to factory default.
- Load Firmware.

Change History

Technical Manual	<u>Date</u>	<u>Version</u>	<u>Details</u>
	21 Jan 20	1.0	First Release
	01 Apr 20	1.0	Product name changed from Nav-Bar SF to NavBar SF.
	01 Sep 20	1.1	Updated layout
	15 Aug 24	1.2	Split out Config Utility into separate document
Product Firmware	<u>Date</u>	<u>Version</u>	<u>Details</u>
	21 Jan 20	NBM v1.0	First Release