

POS Touchscreen BA82



Multifunctional 12.1" LED TFT screen for modern POS applications

The BA82 is a 12.1" TFT touch screen designed specifically for applications at the point of sale. The BA82 embodies rugged technology in an appealing look. The screen is the central point for input at state-of-the-art POS systems that make use of touch screen technology. Touch-based applications have become increasingly established at the POS since they ensure quick familiarization by operators and usually dispense with the need for a keyboard and mouse.

The BA82 can be run on Wincor Nixdorf BEETLE systems, other vendors' POS systems and even on PCs. It is supplied with power directly from the BEETLE via the PoweredUSB line that is also used for sending all data except the video signal, which is transmitted either by DVI or VGA. If the BA82 is to be run on a POS system that does not have a PoweredUSB, an external power supply unit, which can be ordered as an option, is used. The data is then transferred separately via a standard USB connection.

A USB hub integrated in the BA82 means this interface can be used not just for internal devices

such as the touch controller and stereo loudspeakers, but also for optionally connecting further peripherals to the screen. For this reason it also offers up to two freely accessible USB ports.

The touch screen's functionality and efficiency can be enhanced with screen peripherals as a programmable magnetic card reader or a programmable keyboard, optionally with MSR.

In order to meet all the requirements of retailing, hospitality, service stations, postal solutions and lottery solutions, the BA82 is offered either with tried and tested capacitive touch technology or innovative infrared touch technology. For the use as customer display there is also a model of the BA82 without touch screen available.

The BA82's stand only has a small footprint at the POS yet offers maximum stability for touch applications. The connection cables are especially secured at the stand, offering additional strain relief and a neater appearance.

As an alternative to the stand, the BA82 can also be fixed in place using its VESA 75 and VESA 100 mounting holes with a pole mount accessory. Also the BA82 can be mounted on the rear side of a BA83 as dual screen solution. The screen has two security slots to allow the use of a Kensington lock to prevent theft. The screen's main parameters are set using control keys at the device's front with an on-screen display (OSD).

If the store doesn't want any settings, the OSD can also be optionally deactivated. The screen is particularly flickerfree and low-radiation.

The BA82 has been awarded the GS sign for "Tested Safety" and complies with the requirements for ergonomics stipulated by ISO 13406-2.

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Services

Wincor Nixdorf's fast, professional manufacturer service is available as an option for the POS Touchscreen BA82 as part of the complete solution offer. Tailored services enable the highest possible system availability and security worldwide due to standardized service processes and efficient remote management based on the Wincor Nixdorf eServices Platform®. By request retailers can hand over their complete IT operations and the control of their cash processes to Wincor Nixdorf's service organization.

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Thanks to its low power consumption during operation and in standby mode, the screen makes a major contribution to reducing the POS solution's TCO and reducing its environmental impact. The BA82 versions have been awarded with the ENERGY STAR.

If the BA82 is connected to a BEETLE system that also supports

hibernate mode, the POS system can be put into this mode using the screen's on/off switch. This further power-saving feature is of particular interest if the central unit is installed in the checkout desk in such a way that it is difficult to access.

TECHNICAL DATA

BA82 /e

Dimensions

- Diagonal: 12.1" (30.7 cm)
- Active screen area (h x v): 246 mm x 184 mm
- Housing: 312 mm x 304 mm x 87 mm

Weight

- Without stand: 3.3 kg
- With stand: 4.5 kg

Environmental class

- IEC 721 3/3 Class 3K3

Operating temperature

- +5 °C - +40 °C

Humidity

- 5% - 85%, absolute humidity 1 g/m³ - 25 g/m³, Condensation is not permissible

Frequencies

- Horizontal (KHz) 37.9
- Vertical (Hz) 60

Resolutions

- 800 x 600 pixels
- Color depth 16.7 Mio

Interface

- DVI-I
- PoweredUSB, USB, Remote

Reading angle

- Right/left: 80°/80°
- Top/bottom: 60°/80°

Power consumption

- Typical: <9 W
- Standby: <1 W
- Soft off: <1 W
- ENERGY STAR qualified product

Option – Non Touch

- Brightness: Typ. 370 cd/m²

Option – Capacitive Touch Screen

- Resolution: 16K x 16K pixels
- Analog capacitive
- Non-reflective (capacitive)
- Brightness: Typ. 370 cd/m²
- USB-internal

Option – Infrared Touch Screen

- Resolution: 4K x 4K pixels
- Infrared touch
- Non-reflective
- Brightness: Typ. 370 cd/m²
- USB-internal

Option – Keyboard module

- USB- A (USB 2.0 compliant) – internal
- HID 1.1 (Human Interface Device)
- 32 keys, freely programmable

Option – MSR/Keyboard Module:

- Number of tracks: up to 3
- Encoding of the magnetic cards: In accordance with ISO 7811-2
- Read rate: 10 to 140 cm/s
- Height: 179 mm
- Width: (mounted on screen) 140 mm
- Depth: 40 mm
- Weight: Approx. 800 g

Option – MSR Module

- USB- A (USB 2.0 compliant) – internal
- HID 1.1 (Human Interface Device)
- Number of tracks: up to 3
- Encoding of the magnetic cards: In accordance with ISO 7811-2
- Read rate: 10 to 140 cm/s
- Height: 179 mm
- Width: (mounted on screen) 51 mm
- Depth: 40 mm
- Weight: Approx. 310 g

Option – Water lock

- USB- A (USB 2.0 compliant) – internal
- 16 digit unique identification Keys
- Height: 77 mm
- Width (Screen mounted): 43 mm
- Depth: 40 mm
- Weight approx. 160 g

Option – Fingerprint reader

- USB 2.0, 1.1
- Full speed, high power device
- Height: 77 mm
- Width: 43 mm
- Depth: 29 mm
- Weight: approx. 120 g

Sensor

- Technology: optical
- Resolution: 512 dpi
- Contrast: gray scale, 8 bit
- Reading panel: 14.6 mm x 18.1 mm (max. size)

Services (optional)

- Global Deployment Services: rollout and installation
- Availability Services: fast recovery and regular maintenance services
- Operational Services: remote management and help desk for fast resolutions as well as for user support