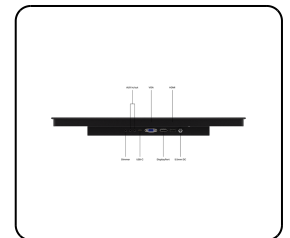
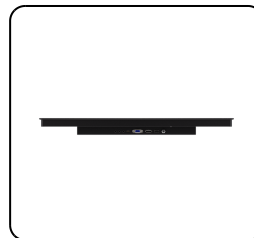
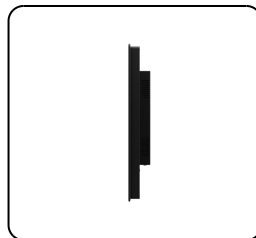
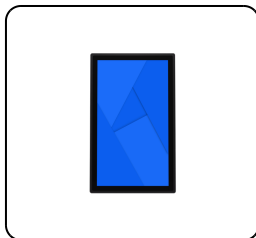


Model: 22HB9M/U1

## 22 Inch Touchscreen Metal (High Brightness)

- ✓ High-brightness Full-HD multi-touch panel
- ✓ Input: HDMI, DisplayPort, USB-C, VGA
- ✓ Mounting: Flush, embedded, panel mount
- ✓ External dimensions: 532 x 323 x 46 mm



## General

Manufacturer	Beetronics
Product line	HB Touchscreen Series
Product name	22 Inch Touchscreen Metal (High Brightness)
Item number	22HB9M/U1
Product type	Touchscreen
Warranty	2 years
User manual	<a href="#">Download PDF</a>
Quickstart	<a href="#">Download PDF</a>

## Display architecture

Aspect ratio	16:9 (4:3 adjustable)
Native resolution	1920 x 1080
Pixels per inch	102 PPI
Diagonal size	21.5 inches (548 mm)
Surface	Tempered glass, matte finish
Supported orientation	Landscape, portrait, face-up

## Display performance

Maximum brightness	1000 nits (typical)
Minimum brightness	1 nit
Contrast	1000:1
Viewing angle	178° horizontal, 178° vertical
Supported resolutions	1920 x 1080 (max), 640 x 480 (min)

## Touch technology

Touch technology	Capacitive (PCAP), optically bonded
Touch points	10-point (multi-touch)
Touch interface	USB HID-compliant
Touch control	Stylus, hand, glove
Gesture support	Tap, swipe, scroll, pinch-to-zoom (dependent on host system OS and application)

## Operational features

Audio	Dual integrated speakers
Key-lock	The control buttons can be blocked.
Auto-on	Automatically powers on when it receives current or a signal.
Dimmable	Adjustable backlight brightness via remote control, optional dimmer, or an integrated ambient light sensor for automatic brightness adjustment. Dimming thresholds can be configured.

## Software & compatibility

Windows	Windows 8, 10, 11
Windows Embedded	Windows Embedded 8 Industry, 8.1 Industry, IoT Enterprise
macOS	Tahoe, Sequoia, Sonoma
Linux	All Linux distributions
Brightsign	All BrightsignOS versions
Samsung DeX	All Samsung DeX versions

## Connectivity

HDMI	1x
DisplayPort	1x
VGA	1x
USB-C	1x Video, audio, touch
USB-A	Via USB-C to USB-A adapter. This only activates the touch functionality and should be combined with HDMI, the DisplayPort, or VGA for image display.
AUX input (3.5mm)	1x
AUX output (3.5 mm)	1x

## Mechanical

Dimensions (without stand)	532 x 323 x 46 mm
Active area	478 x 269 mm
Weight	5640 grams
Colour	Black

## Mounting

Wall mount	✔ VESA 100x100mm
Flush mount	✔ Panel mount accessories included
Supported mounting orientations	Landscape, portrait, face-up

## Power

Input voltage	19V DC
Operating voltage range	10-36V DC
Power consumption	40 W (on), 0.4 W (standby)
Power supply	External DC power supply included
Included power adapter	Input: 100-240V AC, 50/60Hz, Output: 19V DC, 2.5A
Power connector	5.5 mm × 2.1 mm DC barrel connector
DC cable length	1.5 m
AC power cord length	1.0 m

## Environmental

Operating temperature	-20°C to +70°C (-4°F to 158°F)
Storage temperature	-30°C to +80°C (-22°F to 176°F)
Operating humidity	10% - 90% non-condensing
Ingress protection (IP)	IP66 when panel mounted
Impact protection (IK)	IK08
MTBF	50K

## Compliance & regulations

Regional standards	CE, UKCA, FCC (Part 15), ISED (ICES-003), CCC
Environmental standards	RoHS, REACH, WEEE, California Proposition 65, Conflict minerals (3TG; supplier declaration-based)
Industry standards	Maritime: IEC 60945, DNV-CG-0339 (requires BEE-PSU1-MAR); Railway: EN 50155, EN 45545-2; Automotive: e-Mark, UN ECE R10, SAE J1113, SAE J1455
Compliance scope	Standards and certifications apply to the tested product configuration using the specified power supply. Final system-level compliance remains the responsibility of the party responsible for system integration.
Compliance statement	<a href="#">Download PDF</a>

## Package content

Includes	Touchscreen, USB-C to USB-C cable, USB-C to USB-A cable, mounting clamps (8x), mounting strips (8x), screws (8x), remote control, power adapter, quickstart
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## Compatible accessories

Dimmer	<a href="#">Compatible with external dimmer (DMK7/DMK8)</a>
Wall mounting	<a href="#">Compatible with flat wall mount bracket (VWB1)</a>
Touch pen	<a href="#">Compatible with CTS7 capacitive touchscreen stylus</a>



