

### ***Panel PC with 12.3" Display with Glass Front***



- ***Panel PCs with bonded glass front and touchscreen***
- ***All in one solution for quick installation – saves space and costs***
- ***Powerful PC system for enhanced performance***
- ***Can also be integrated into existing systems***

Böning Automationstechnologie's new generation of displays expands its product range in the display category with innovative devices.

Combining increased performance and functionality in a valuable modern design, they increase operational safety and ease of operation on ship bridges. Their luminosity of up to 1000 cd/m<sup>2</sup> ensures good readability at all times, even during bright sunlight. Automatic dimming further ensures that the displays operate without glare especially when cruising at night.

Automotive components allow the displays to be used in greater temperature ranges than previous displays.

The newest-generation capacitive touchscreen allows easy operation without compromising the visualization with visible threads. The latest display technology provides even more brilliant colors and a markedly increased viewing angle.

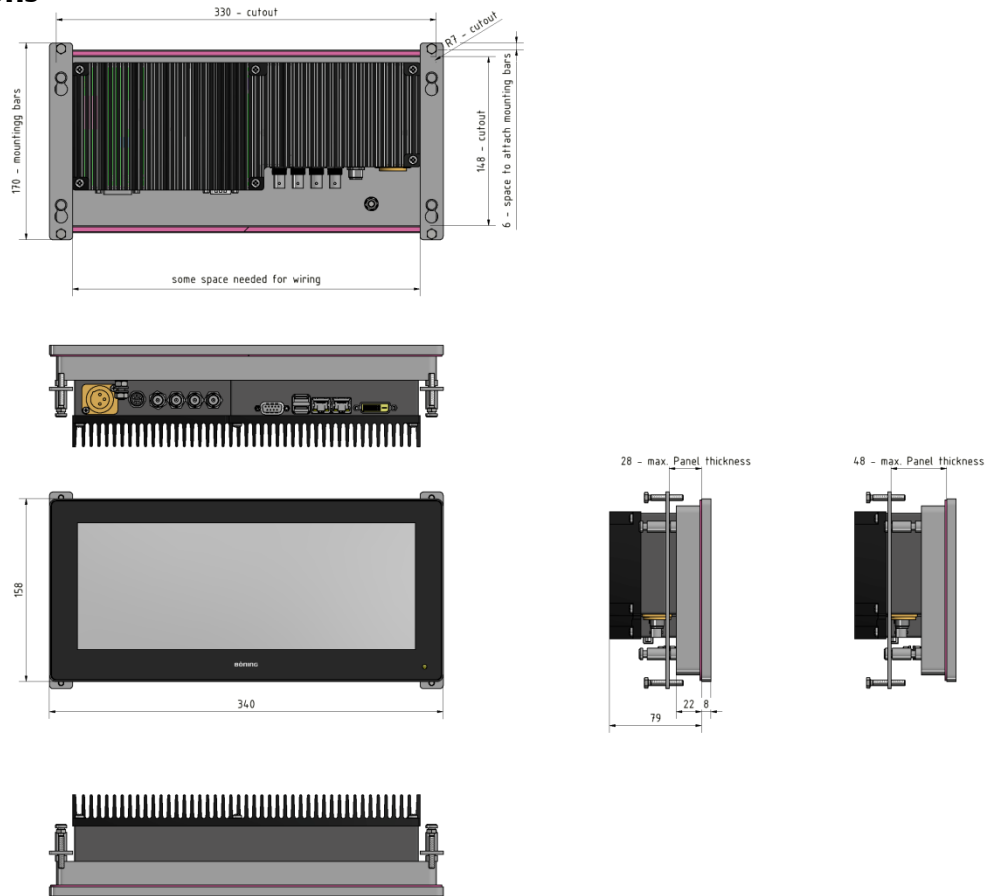
Their 24 V DC power supply makes these devices especially suitable for use on ships. The powerful Panel PCs allow safe and reliable operation, even in extreme conditions.

The visualization system with embedded operating system operates completely autonomously. Advantage: it requires neither firewalls nor virus scanners, and in addition, the configuration cannot be changed accidentally.

The PCs were especially developed for maritime use. The absence of moveable parts, such as hard disks, makes the device insensitive to shock. The passive cooling system significantly contributes to its operational safety.

AHD 1312 GW must be used with a data processing station AHD-DPU 9 or a panel PC AHD 12XX.

## Dimensions



## Technical Data

Power supply	24 V DC (+30% / -25%)
Power consumption	Ca. 45 W (24 V DC)
Ambient temperature	-30°C...+55°C (-30°C...+70°C at interior console temperature of max. +45°C)
Storage temperature	-50°C...+85°C
Weight	Ca. 7 kg
Protection class	IP 65 (front side), IP 20 (rear side)
Dimensions	340 x 158 x 87
W x H x D (mm)	Installation depth min. 100 – 110 mm
Panel cutout	330 x 148 mm
Processor	2.0 GHz Quad Core
RAM	8 GB
Flash disk	128 GB
Approvals	-

Interfaces	1 x CAN (Remote bus; for remote control of the display, e.g. with AHD-DRM T/R)
	1 x RS 232 (for internal diagnosis purposes)
	2 x LAN (integration into the ship's Böning system)
	2 x USB
	4 x Video IN (50 Hz, PAL, BNC)
Display size (diagonal)	12.3" (312.4 mm)
Resolution	1280 x 480 pixels (H x V; max.)
Aspect ratio	8:3
Luminosity	1000 cd/m <sup>2</sup>
Contrast	1000:1
Viewing angle	Horizontal -85° / +85° vertical -85° / +85°
Required distance to compass	Steering magnetic compass: 0.90 m Standard magnetic compass: 1.40 m
Item number	16366