MARINE COMPUTERS & DISPLAYS

# MPC24 Marine Panel PC

24-inch IP67 waterproof all-in-one marine computer with sunlight-readable touchscreen




| | |
|---|---|
| DISPLAY | 24" Full HD, 1500 nits |
| TOUCH | 10-point capacitive |
| PROCESSOR | Intel i3-N305, 8 cores |
| MEMORY / STORAGE | 16 GB DDR5 / 1 TB SSD |
| OPERATING SYSTEM | Windows (Linux option) |
| PROTECTION | IP67, full unit |
| POWER INPUT | 24–36 V DC |
| OPERATING TEMP. | −20 °C to +70 °C |

## OVERVIEW

The Maritronix MPC24 is a professional 24-inch waterproof marine computer for helm stations, yacht bridges, pilothouses, commercial vessels, workboats, patrol boats and marine automation installations.

It is **not only a display**: an industrial PC is built directly into the sealed, milled-aluminium monitor housing, creating a complete all-in-one workstation for navigation, monitoring, control and automation.

## OPEN PLATFORM

Supplied with **Windows pre-installed**, the MPC24 runs standard professional software such as TIMEZERO, OpenCPN-style chart navigation, camera viewers, NMEA tools and custom dashboards — unlike closed, app-restricted marine displays. **Linux** is available on request.

A **dual-mode display** lets the operator switch between the internal PC and an external HDMI source, such as a compatible chartplotter, with touch passed back via USB.

## KEY FEATURES

- **Sunlight-readable 1500-nit display**
  Full HD, anti-glare, optically bonded, with automatic dimming via ambient light sensor.
- **Monitor mode with HDMI IN + USB Touch**
  Use as a 24" touch display for an external computer or compatible chartplotter.
- **Full IP67 waterproof design**
  Sealed housing with hydrophobic pressure-balance vent; condensation-resistant bonded screen.
- **Heavy-duty cooling housing**
  Milled aluminium rear with cooling ribs for continuous operation in sun and heat.
- **Built-in industrial PC**
  Intel i3-N305 (8 cores), 16 GB DDR5, 1 TB SSD for navigation, cameras and control software.
- **Front-panel source and power control**
  Switch PC / HDMI input and power the internal PC on or off from the front.
- **Waterproof marine I/O**
  2× CAN Bus, LAN, RS485, USB 2.0, 2× USB 3.0, Wi-Fi, HDMI IN/OUT, USB Touch.
- **Ready to install**
  Flush-mount front frame; matching waterproof cable supplied for every rear connector.



Rear panel with 12 waterproof marine connectors



Flush-mount bezel with touch OSD controls and light sensor



CNC-milled aluminium housing with cooling ribs

| DISPLAY & TOUCH | |
|---|---|
| Screen size | 24 inch |
| Resolution / aspect | 1920 × 1080 Full HD, 16:9 |
| Brightness | 1500 nits, sunlight readable |
| Auto dimming | Integrated ambient light sensor |
| Surface | Anti-glare, optically bonded |
| Touchscreen | 10-point capacitive, EETI waterproof |

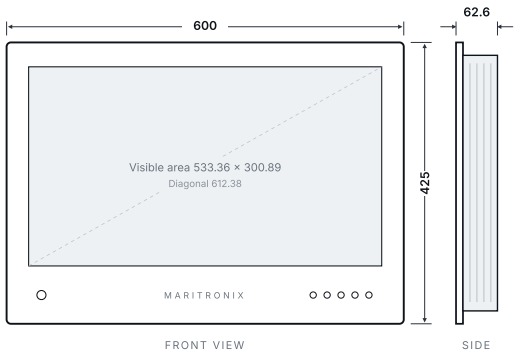
| COMPUTER | |
|---|---|
| Processor | Intel i3-N305, 8 cores / 8 threads |
| Memory | 16 GB DDR5 |
| Storage | 1 TB SSD |
| Operating system | Windows pre-installed (Linux on request) |
| Display modes | Internal PC / external HDMI (monitor) |

| INTERFACES | |
|---|---|
| Fieldbus | 2 × CAN Bus |
| Serial | RS485 |
| Network | LAN (Ethernet), Wi-Fi antenna |
| USB | 1 × USB 2.0, 2 × USB 3.0 |
| Video | HDMI IN, HDMI OUT |
| Touch output | USB Touch (monitor mode) |
| Front controls | Power, PC / monitor switch, touch OSD |

| ELECTRICAL & ENVIRONMENTAL | |
|---|---|
| Power input | 24–36 V DC, for 24 V systems |
| Operating temp. | −20 °C to +70 °C |
| Ingress protection | IP67, full waterproof design |
| Pressure balance | Hydrophobic pressure-balance vent |
| Materials | UV-resistant |

| MECHANICAL | |
|---|---|
| Housing | Milled aluminium alloy, cooling ribs |
| Front dimensions | 600 × 425 mm |
| Depth (approx.) | 62.6 mm |
| Rear housing | 569.4 × 405 mm |
| Visible display area | 533.36 × 300.89 mm |
| Installation | Flush-mount, custom front frame |

## DIMENSIONS (MM)




Schematic, not to scale. Rear housing 569.4 × 405 mm. Request the CAD drawing for cut-out and mounting details.

## REAR CONNECTOR PANEL

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| DC 24–36 V | USB 2.0 | USB 3.0 | USB 3.0 | CAN Bus 1 | CAN Bus 2 |
| **07** | **08** | **09** | **10** | **11** | **12** |
| LAN | RS485 | Wi-Fi antenna | HDMI OUT | HDMI IN | USB Touch |

All connectors are waterproof. A matching waterproof cable is supplied for each.

## SCOPE OF DELIVERY

- MPC24 Marine Panel PC, ×1
- Windows, pre-installed
- DC power cable, ×1
- USB 2.0 cable, ×1
- USB 3.0 cable, ×2
- CAN Bus cable, ×2
- LAN cable, ×1
- RS485 cable, ×1
- Wi-Fi antenna / cable, ×1
- HDMI OUT cable, ×1
- HDMI IN cable, ×1
- USB Touch cable, ×1
- Mounting accessories*

All supplied cables are waterproof.

## TYPICAL APPLICATIONS

- TIMEZERO chart navigation
- Cameras, SCOUT AI vision
- Engine & vessel monitoring
- Radar, sonar, NMEA data
- CAN Bus monitoring
- Automation interfaces
- Chartplotter touch display
- Bridges, pilothouses, workboats

MARITRONIX

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* Mounting accessories depend on installation version. Specifications are subject to change without notice. Windows is a trademark of Microsoft Corporation; Intel is a trademark of Intel Corporation.



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