

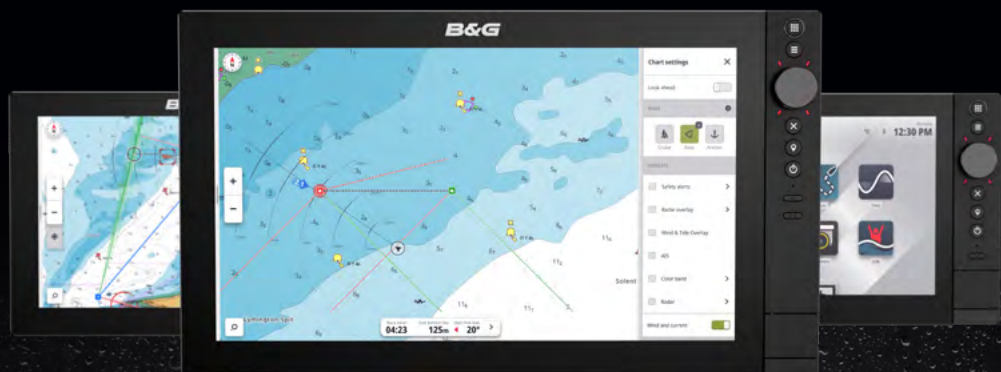
# 50°45'3.186"N

## B&G®

### ZEUS® SR

#### INSTALLATION MANUAL

ENGLISH



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## Internet usage

Some features in this product use an internet connection to perform data downloads and uploads. Internet usage via a connected mobile/cell phone internet connection or a pay-per-MB type internet connection may require large data usage. Your service provider may charge you based on the amount of data you transfer. If you are unsure, contact your service provider to confirm rates and restrictions. Contact your service provider for information about charges and data download restrictions.

## More information

Document version: 003

Features described in this document may vary from your unit due to connected devices, settings, brand, and continuous software development.

For the latest version of this document in supported languages, and other related documentation, visit [www.bandg.com/downloads/zeus-sr](http://www.bandg.com/downloads/zeus-sr).

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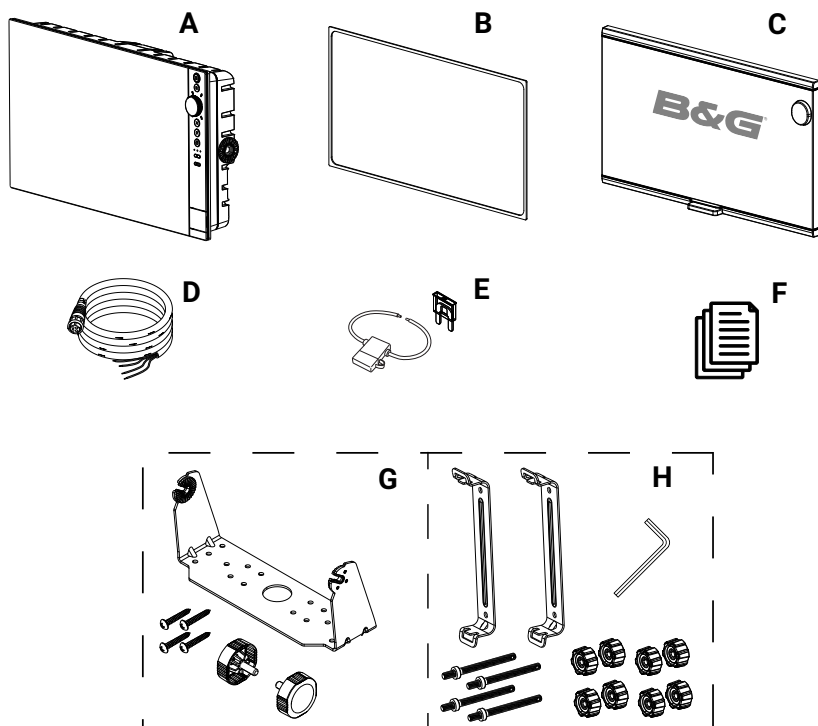
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# IN THE BOX

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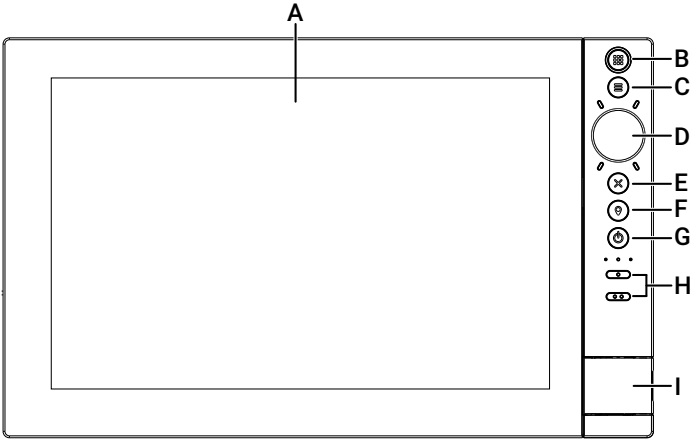


- A Display unit
- B Dash gasket
- C Suncover
- D Power cable
- E Fuse and fuse holder
- F Documentation pack
- G Gimbal mount kit - 10" and 12" units
  - 1x metal bracket
  - 4x #14x 1 in self-tapping pan head screws
  - 2x knobs

→ **Note:** 16" unit's gimbal mount kit is sold separately.
- H Rear mount kit
  - 2x metal brackets
  - 4x M4 x 0.7 threaded studs
  - 4x pairs of thumb nuts
  - 1x 1.5 mm Allen key

# FRONT CONTROLS

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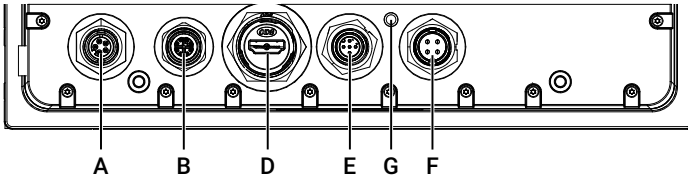


- A** Touchscreen
- B** Home
- C** App menu
- D** Scroll wheel
- E** Exit
- F** Waypoint
- G** Power
- H** Customizable keys
  - 1x button on the 10" unit
  - 2x buttons on the 12" and 16" units
- I** Memory card door

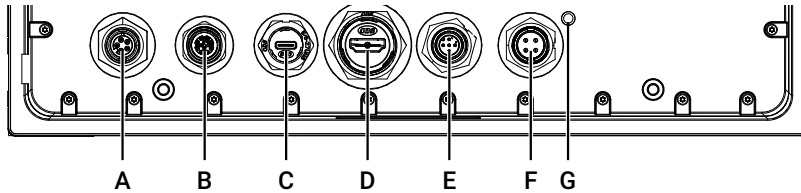
# CONNECTORS

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## 10" unit



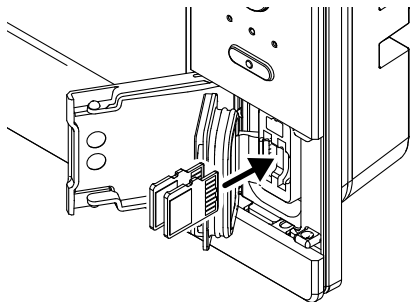
## 12" and 16" units



- A Ethernet (5-pin, yellow connector)
  - B Ethernet (X-Coded M12 connector)
  - C USB connector - video out
  - D Video input
  - E NMEA® 2000 (Micro-C connector)
  - F Power and other controls (4-pin connector)
  - G Earth-ground connection point (M4 x 0.7)
- Notes:

- Video input and USB connector covers should be fitted when the connectors are not in use.
- To help minimize interference, corrosion, and electrolysis; use a conducting wire to connect the Earth-ground connection point (G) to a point on the hull that is in electrical contact with the water. This will ground the unit and network via a bleed path, allowing excess charge to dissipate safely.

## Memory card reader



A microSD® card can be used to:

- Provide detailed charts
- Update software
- Transfer user data (waypoints, routes, tracks, and screenshots).

### → Notes:

- *If a microSD® card and USB storage device are both inserted, by default, data and screenshots are saved to the USB storage device.*
- *Do not download, transfer or copy files to a chart card as it can damage chart information on the card.*
- *MicroSD® cards up to a maximum of 256 GB are supported in FAT® 32, ExFAT®, or NTFS® file system.*
- *Always shut the protective cover securely after inserting or removing a microSD® card to keep the slot watertight.*

# INSTALLATION

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## General mounting guidelines

Choose a mounting location that will not expose the unit to conditions that exceed the technical specifications.

**⚠ WARNING:** Do not install the unit in a hazardous/flammable atmosphere. Always wear appropriate eye wear, ear protection and dust mask when drilling, cutting, or sanding. Remember to check the reverse side of all surfaces whenever drilling or cutting.

## Mounting location

This product generates heat which must be considered when choosing the mounting location.

Ensure the selected area allows for:

- Cable routing, cable connection and cable support.
- Connection and use of USB storage devices.

Do also consider:

- The free space around the unit to avoid overheating.
- The mounting surface's structure and strength, with regard to the weight of the equipment.
- Any mounting surface vibration that might damage the equipment.
- Hidden electrical wires that might be damaged when drilling holes.

## Sun cover

The sun cover is not intended to be used when the vessel is in motion or in tow. It may become detached at high speeds. Always remove the sun cover before traveling.

## Ventilation

Inadequate ventilation and subsequent overheating of the unit may cause reduced performance and reduced service life. Ventilation is recommended behind all units that are not bracket mounted.

Ensure cables do not obstruct the airflow.

Examples of enclosure ventilation options, in order of preference, are:

- Positive pressure air from the vessel's air conditioning system.
- Positive pressure air from local cooling fans (fan required at input, fan optional at outlet).
- Passive airflow from air vents.

## Electrical and radio frequency interference

This unit conforms with the appropriate Electromagnetic Compatibility (EMC) regulations. To ensure the EMC performance is not compromised, the following guidelines apply:

- Use a separate battery for the vessel engine.
- Minimum 1 m (3 ft) between the device, the device's cables and any transmitting equipment or cables with radio signals.
- Minimum 2 m (7 ft) between the device, the device's cables and the SSB radio.
- More than 2 m (7 ft) between the device, the device's cables and the radar beam.

## Compass safe distance

The unit outputs electromagnetic interference that can cause inaccurate readings on a nearby compass. To prevent compass inaccuracy, the unit must be mounted far enough away so the interference does not affect compass readings. For minimum compass safe distance, refer to the technical specifications table.

## Wi-Fi®

It is important to test the Wi-Fi® performance at your chosen location before you install the unit.

It is important to keep your country setting up to date. Go to **Settings > Preferences > Country** to change the unit's country setting.

Construction material (steel, aluminum or carbon) and heavy structures will affect Wi-Fi® performance.

The following guidelines apply:

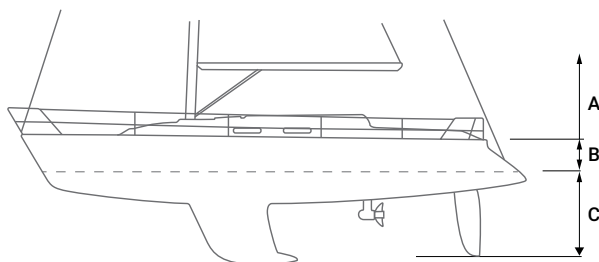
- Select a location with a clear, direct line of sight between Wi-Fi® connected units.
- Keep the distance between Wi-Fi® units as short as possible.
- Mount the unit at least 1 m (3 ft) away from equipment that might generate interference.

## GPS

It is important to test the GPS performance at your chosen location before you install the unit.

Construction material (steel, aluminum or carbon) and heavy structure will affect GPS performance. Avoid a mounting location where metal obstacles block the view of the sky.

A well-placed external GPS module can be added to overcome poor performance.



**A** Optimal location (above deck)

**B** Less effective location

**C** Not recommended location

→ **Note:** Consider the lateral swinging if mounting the GPS sensor high above sea level. Roll and pitch might give false positions and affect the true directional movement.

## Touchscreen

Touchscreen performance can be affected by the location of the unit. Avoid locations where the screen is exposed to direct sunlight or prolonged rainfall.

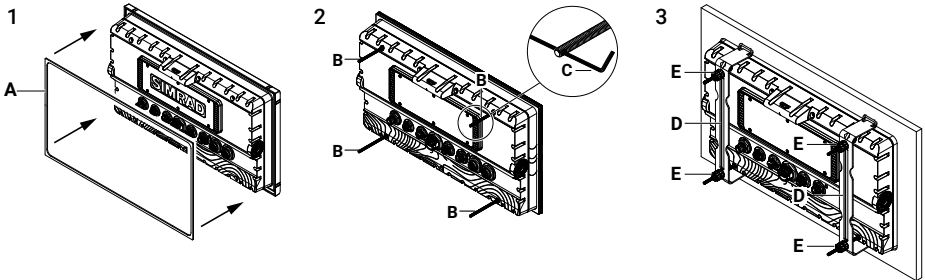
## Panel mount

Refer to the mounting template for illustrated panel mounting instructions.

## Rear mount

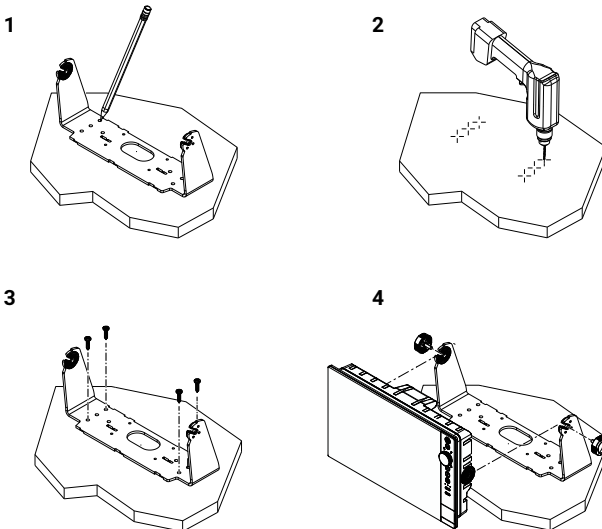
- 1 Apply the provided gasket (A) to the gasket channel on the display unit.
- 2 Hand-tighten the four threaded studs (provided) (B) into the brass inserts on the back case, and use the provided Allen (C) key to tighten.
- 3 Place the display unit into the dash cutout, fit the rear mount brackets (D) over the studs, and secure with two thumb nuts (E) per stud, turning them clockwise.

**⚠ WARNING:** Hand tighten only! Do not use any tools to tighten the rear mount brackets into the display chassis. Using excessive force may damage the back side of the display unit.



## Gimbal mount

- 1 Position the bracket with ample height to tilt the unit, and ensure space for knob adjustments on both sides. Mark the screw locations using the bracket as a template.
  - 2 Drill pilot holes.
  - 3 Screw down the bracket using fasteners suitable for the material you are mounting the bracket on.
  - 4 Mount the unit to the bracket using the knobs. Hand-tighten only.
- **Note:** The 4 screws shown below are for illustration purposes only. Use fasteners suitable for the mounting surface. Use as many fasteners as needed to secure the installation.



# WIRING

## Wiring guidelines

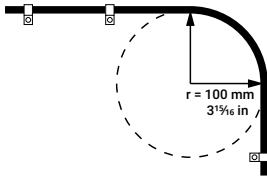
Unless otherwise stated, only use the supplied cable/s. If you need to use a non-supplied cable, ensure it is the correct quality, length and gauge for its intended purpose.

Don't:

- Make sharp bends in the cables.
- Run cables in a way that allows water to flow down into the connectors.
- Run the data cables adjacent to radar, transmitter, or large/high current carrying cables or high frequency signal cables.
- Run cables so they interfere with mechanical systems.
- Run cables over sharp edges or burrs.

Do:

- Make drip and service loops.
- Ensure a minimum bend radius of 100 mm (315/16 in) where possible.



- Use cable-ties on all cables to keep them secure.
- Solder/crimp and insulate all wiring connections if extending or shortening the cables. Extending cables should be done with suitable crimp connectors or solder and heat shrink. Keep joins as high as possible to minimize the possibility of water immersion.
- Leave room adjacent to connectors to ease the plugging and unplugging of cables.
- Follow any grounding advice provided in the product documentation.

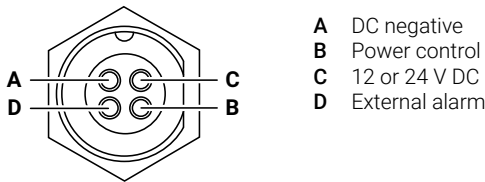
**⚠ WARNING:** Before starting the installation, turn the electrical power off. If power is left on or turned on during the installation, fire, electrical shock, or other serious injury may occur. Be sure that the voltage of the power supply is compatible with the unit.

**⚠ WARNING:** The positive supply wire (red) should always be connected to (+) DC with a fuse or a circuit breaker (closest available to fuse rating). For the recommended fuse rating, refer to the technical specifications section of this document.

# Power and other controls

The power connector is used for power, power control, and an external alarm.

## Power connector details

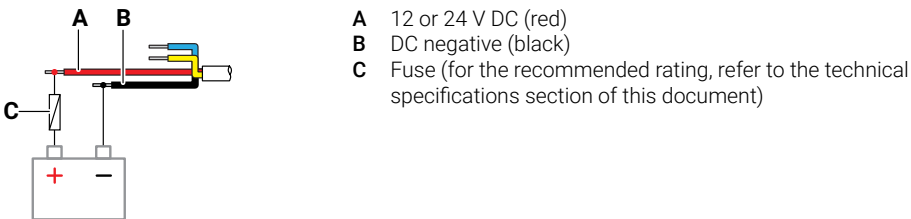


## Power connection

The unit is designed to be powered by 12 or 24 V DC.

It is protected against reverse polarity, under voltage and over voltage (for a limited duration).

A fuse or circuit breaker should be fitted to the positive supply. Refer to the technical specifications section of this document for fuse rating.



## Power control connection

The yellow wire in the power cable can be used to control how the unit is turned on and off.

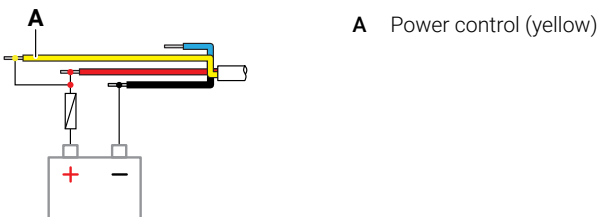
### Power controlled by power key

The unit will turn on/off when the power key on the unit is pressed. Leave the yellow power control wire disconnected and tape or heat-shrink the end to prevent a short circuit.

### Power control by supply power

The unit will turn on/off without using the power key when power is applied/removed. Connect the yellow wire to the red wire after the fuse.

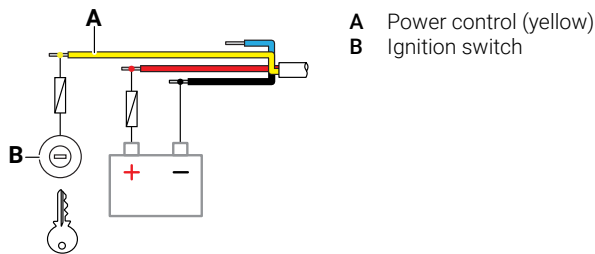
➔ **Note:** The unit cannot be powered down by the power key, but can be put in to standby mode (the screen backlight turns off).



**Power controlled by ignition**

The unit will turn on when the ignition is turned on to start engines.

→ **Note:** *Engine start batteries and house batteries should have a common ground connection.*

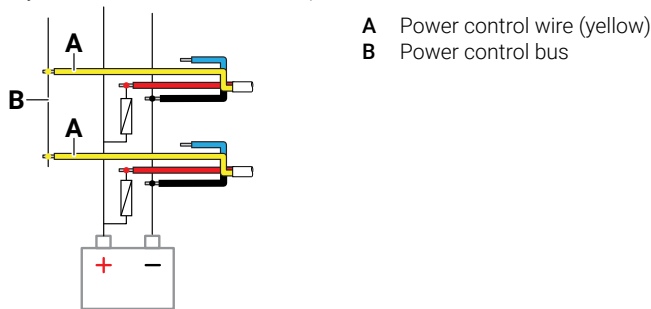


**Power controlled by power control bus**

The yellow power control wire can either be an input that will turn the unit on when power is applied, or an output that turns on other devices when the unit is powered on. It can be configured to control the power state of displays and compatible devices by going to:

**Settings > Boat network > Devices > This Device > MFD > Show Details > Power control.**

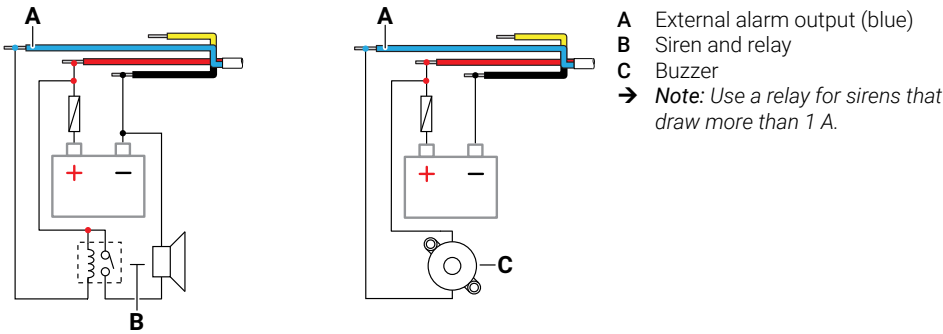
The unit can be set to be a primary or secondary power control. If a unit is configured as primary and turned on by the power key, it will output voltage on the power bus. This will power on other primary units and secondary units. If a unit is set to secondary power control, it cannot be powered down using its own power key while a primary power control unit is turned on. If all primary power control units are off, secondary units can be turned on and off using their own power key. However, this will not turn on any other units connected to the power bus.



# External alarm

## External alarm

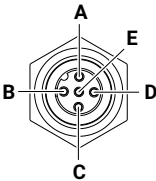
Connect the blue wire in the power cable to an external buzzer or siren to trigger an external alarm.



# NMEA 2000®

The NMEA 2000® data port allows the receiving and sharing of data, including commands and status, from various sources.

## Connector details



- A** Shield
- B** NET-S (12 V DC)
- C** NET-C (DC negative)
- D** NET-H
- E** NET-L

# USB



The USB port can be used to connect a:

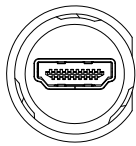
- Storage device
- Card reader
- Video out via an optional adapter

→ **Notes:**

- USB devices should be standard PC-compatible hardware.
- If using the video output feature, we recommend use of an external GPS module.

# Video input

The unit should be turned off prior to connecting or disconnecting a video cable.



## Video input cable requirements

Video input signal may be compromised on long cable runs. Only use Navico Group cables or other high-quality video cables. Third-party cables should be tested before installation. On cable runs over 10 m, you may need to add a video amplifier or use video-to-Cat 6 adapters.

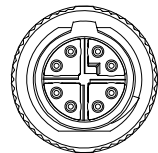
## Ethernet

The Ethernet port(s) can be used for data transfer and synchronization of user-created data. No special setup is required for establishing an Ethernet network.

The unit supports network speeds up to 1 Gbps on the X-coded M12 Gigabit Ethernet (GbE) connector. This enables high-bandwidth applications and more advanced sensors and devices. The X-coded M12 GbE connector is compatible with yellow 5-pin Ethernet devices via an optional adapter, but the X-coded M12 GbE connector will transmit data at a lower rate.

→ **Note:** Only one X-coded M12 GbE to yellow Ethernet adapter may be used between devices.

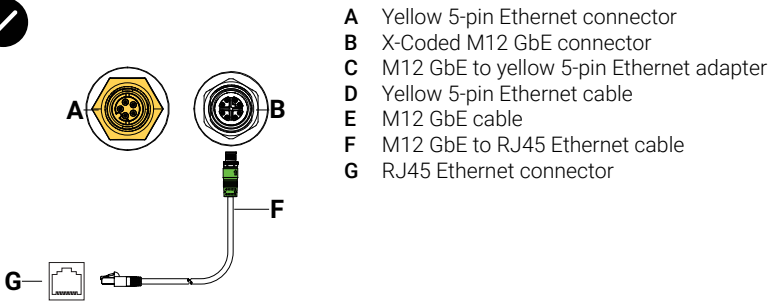
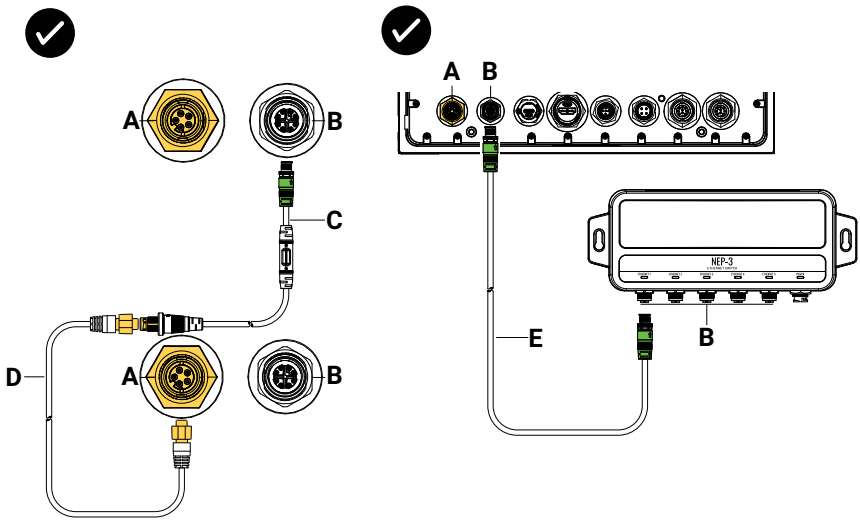
## Ethernet connector (X-Coded M12, GbE) details



# X-Coded M12 Gigabit Ethernet cable requirements

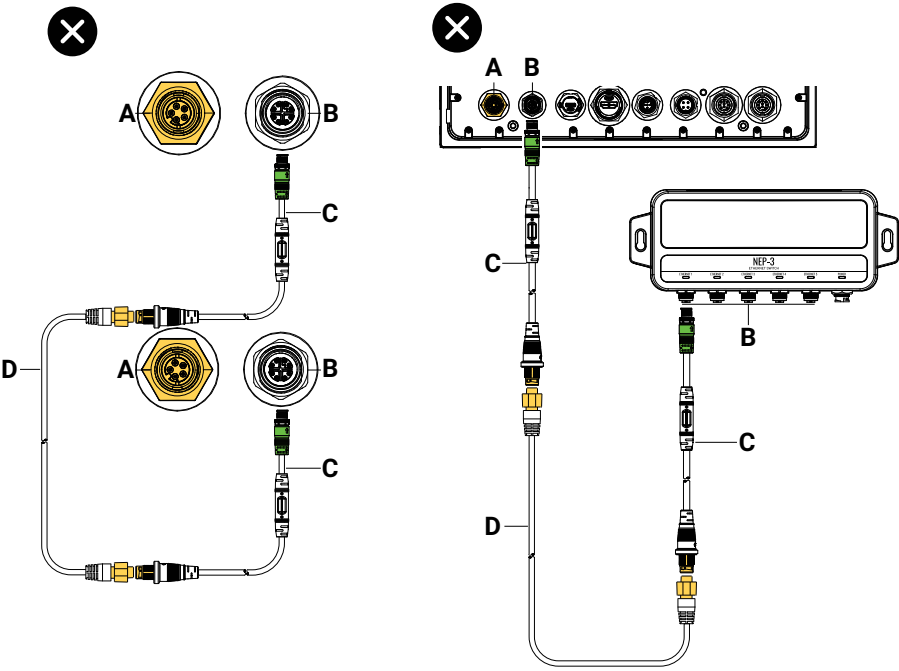
Only use Navico Group cables or other high-quality Cat 6 SF/FTP Ethernet cables.

Navico X-Coded M12 GbE cables have keyed connectors to prevent accidental damage to the connector pins. The unit is compatible with all standard X-coded M12 GbE connectors.



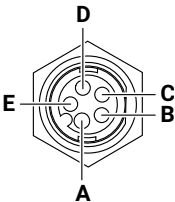
- A Yellow 5-pin Ethernet connector
- B X-Coded M12 GbE connector
- C M12 GbE to yellow 5-pin Ethernet adapter
- D Yellow 5-pin Ethernet cable
- E M12 GbE cable
- F M12 GbE to RJ45 Ethernet cable
- G RJ45 Ethernet connector

**Do not** use more than one X-Coded M12 GbE to yellow 5-pin Ethernet adapter when connecting devices.



- A Yellow 5-pin Ethernet connector
- B X-Coded M12 GbE connector
- C M12 GbE to yellow 5-pin adapter
- D Yellow 5-pin Ethernet cable

**Ethernet connector (yellow, 5-pin) details**



- A Transmit positive TX+
- B Transmit negative TX-
- C Receive positive RX+
- D Receive negative RX-
- E Shield

**Ethernet expansion device**

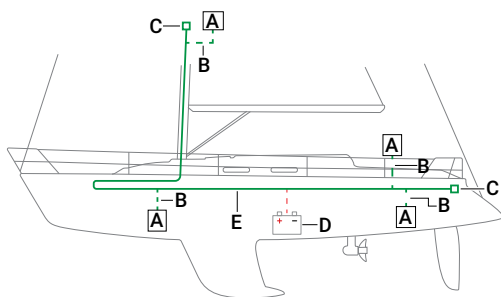
Connect an Ethernet expansion device to connect to multiple network devices. Additional Ethernet expansion devices can be added to provide the required number of ports.

# NMEA 2000® PLANNING AND INSTALLATION

An NMEA 2000® network consists of a powered backbone from which drop cables connect to NMEA 2000® devices. The backbone typically runs from bow to stern within 6 m (20 ft) of the locations of the products to be connected.

The following guidelines apply:

- Supply voltage must be 12 V DC (9 – 16 V DC).
- Supply current must not exceed 3 A.
- Power source must not exceed 3% voltage drop at power insertion point on the backbone (ABYC® E-11).
- The total length of the backbone must not exceed 100 m (328 ft).
- A single drop cable has a maximum length of 6 m (20 ft). The total length of all drop cables combined must not exceed 78 m (256 ft).
- A terminator must be installed at each end of the backbone. This can be a terminator plug or a unit with a built-in terminator.



- A NMEA 2000® device
- B Drop cable
- C Terminator
- D Power supply 12 V DC
- E Backbone

## NMEA 2000® network power

The NMEA 2000® network requires its own 12 V DC power supply, protected by a 3 A fuse.

→ **Note:** Do not connect the NMEA 2000® power cable to the engine start batteries, autopilot computer, bow thruster or other high-current devices.

Network devices may experience communication errors if they receive less than 9.5 V DC. To ensure reliability and safe operation, use a derated battery or power supply value to calculate the network voltage drop. Check your battery or power supply manufacturer's documentation for the derating factor.

Voltage drop calculations are based on Ohm's Law.

$$V = I \times R$$

V = voltage drop estimate (VD)

I = total network LEN (NL) × 0.1

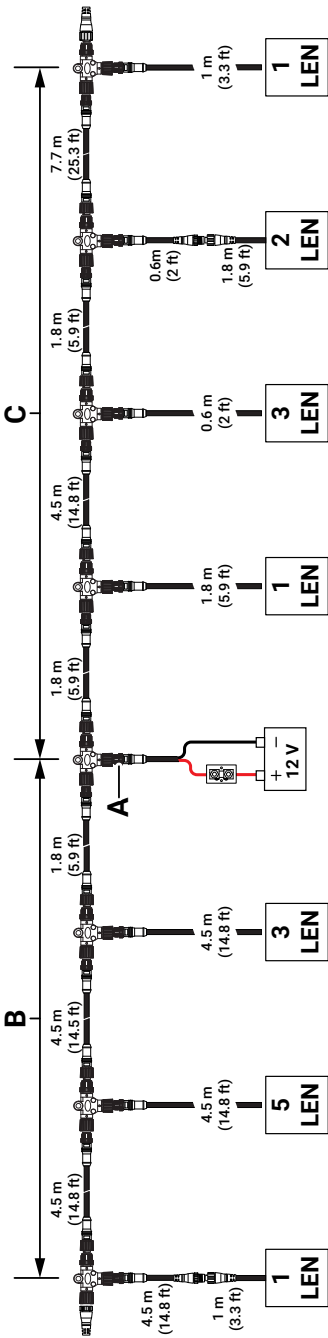
R = total network length in meters (BL) × cable resistance (Z)

$$VD = (0.1 \times NL) \times (BL \times Z)$$

→ **Notes:**

- LEN (Load Equivalency Number) represents the current draw of a device. 1 LEN equals 50 mA (0.050 A). Refer to network device manufacturer for LEN value.
- If the cable length is measured in feet, multiply the cable length by 0.3.
- Cable resistance (Z) for each type of network cable:
  - Lite cable = 0.057 Ω / Meter
  - Medium cable = 0.015 Ω / Meter
  - Heavy cable = 0.012 Ω / Meter

Sample voltage drop calculation



- A Power insertion point
- B Left branch
- C Right branch

Right branch			
Segment	1	2	4
Backbone length	1.8 m	4.5 m	7.7 m
Drop length	1.8 m	0.6 m	1 m
Device			
1	1 LEN	0.021	
2	3 LEN	0.062	
3	2 LEN	0.041	0.048
4	1 LEN	0.021	0.024
Totals	7 LEN	0.144	0.072
			Voltage drop
			0.439 V DC

Left branch			
Segment	1	2	3
Backbone length	1.8 m	4.5 m	4.5 m
Drop length	4.5 m	4.5 m	5.5 m
Device			
1	3 LEN	0.108	
2	5 LEN	0.180	0.257
3	1 LEN	0.036	0.051
Totals	9 LEN	0.323	0.308
			Voltage drop
			0.688 V DC

Voltage drop estimation		
	Left	Right
Minimum supply voltage (de-rated supply)	11 V DC	11 V DC
3% loss at insertion	-0.33 V DC	-0.33 V DC
Voltage drop	-0.688 V DC	-0.439 V DC
Voltage at the end point	9.982 V DC	10.231 V DC

If the voltage at the end point is less than 9.5 V DC, you can:

- Move the power insertion point.
- Use Navico Group medium-duty NMEA 2000® cables.
- Add a CZone® Network Bridge Interface (NBI) to the center of the NMEA 2000® bus, and connect power at the midpoint of each side.

# SUPPORTED DATA

## NMEA 2000® PGN (receive)

59392	ISO Acknowledgment
59904	ISO Request
60160	ISO Transport Protocol, Data Transfer
60416	ISO Transport Protocol, Connection M
60928	ISO Address Claim
65240	ISO Commanded Address
126208	ISO Command Group Function
126992	System Time
126996	Product Info
126998	Configuration Information
127233	Man Overboard Notification (MOB)
127237	Heading/Track Control
127245	Rudder
127250	Vessel Heading
127251	Rate of Turn
127252	Heave
127257	Attitude
127258	Magnetic Variation
127488	Engine Parameters, Rapid Update
127489	Engine Parameters, Dynamic
127490	Electric Drive Status (Dynamic)
127491	Electric Energy Storage Status (Dynamic)
127493	Transmission Parameters, Dynamic
127494	Electric Drive Information
127495	Electric Energy Storage Information
127500	Load Controller Connection State/Control
127501	Binary Status Report
127503	AC Input status
127504	AC Output Status
127505	Fluid Level
127506	DC Detailed Status
127507	Charger Status
127508	Battery Status
127509	Inverter Status
128002	Electric Drive Status (Rapid Update)
128003	Electric Energy Storage Status (Rapid Update)

128259	Speed, Water referenced
128267	Water Depth
128275	Distance Log
128780	Linear Actuator Control / Status
129025	Position, Rapid Update
129026	COG & SOG, Rapid Update
129029	GNSS Position Data
129033	Time & Date
129038	AIS Class A Position Report
129039	AIS Class B Position Report
129040	AIS Class B Extended Position Report
129041	AIS Aids to Navigation (AtoN) Report
129283	Cross Track Error
129284	Navigation Data
129539	GNSS DOPs
129540	GNSS Sats in View
129545	GNSS RAIM Output
129549	DGNSS Corrections
129551	GNSS Differential Correction Receiver Signal
129793	AIS UTC and Date Report
129794	AIS Class A Static and Voyage Related Data
129798	AIS SAR Aircraft Position Report
129799	Radio Frequency / Mode / Power
129801	AIS Addressed Safety Related Message
129802	AIS Safety Related Broadcast Message
129808	DSC Call Information
129809	AIS Class B "CS" Static Data Report, Part A
129810	AIS Class B "CS" Static Data Report, Part B
130060	Label
130074	Route and WP Service - WP List - WP Name & Position
130306	Wind Data
130310	Environmental Parameters
130311	Environmental Parameters
130312	Temperature
130313	Humidity

130314	Actual Pressure
130316	Temperature, Extended Range
130330	Lighting System Settings
130561	Lighting Zone Settings
130562	Lighting Scene Settings
130563	Lighting Device Settings
130564	Lighting Device Enumeration
130565	Lighting Color Sequences
130566	Lighting Programs
130569	Entertainment - Current File and Status
130570	Entertainment - Library Data File
130571	Entertainment - Library Data Group
130572	Entertainment - Library Data Search
130573	Entertainment - Supported Source Data
130574	Entertainment - Supported Zone Data
130576	Small Craft Status
130577	Direction Data
130578	Vessel Speed Components
130579	Entertainment - System Configuration Status
130580	Entertainment - System Configuration Status
130581	Entertainment - Zone Configuration Status
130582	Entertainment - Zone Volume Status
130583	Entertainment - Available Audio EQ Presets
130584	Entertainment - Bluetooth® Devices
130585	Entertainment - Bluetooth® Source Status

## NMEA 2000® PGN (transmit)

60160	ISO Transport Protocol, Data Transfer
60416	ISO Transport Protocol, Connection M
126208	ISO Command Group Function
126992	System Time
126993	Heartbeat
126996	Product Info
127237	Heading/Track Control
127250	Vessel Heading
127258	Magnetic Variation
127502	Switch Bank Control
128259	Speed, Water referenced
128267	Water Depth
128275	Distance Log
129025	Position, Rapid Update
129026	COG & SOG, Rapid Update
129029	GNSS Position Data
129283	Cross Track Error
129285	Navigation - Route/WP Information
129284	Navigation Data
129285	Route/Waypoint Data
129539	GNSS DOPs
129540	GNSS Sats in View
130074	Route and WP Service - WP List - WP Name & Position
130306	Wind Data
130310	Environmental Parameters
130311	Environmental Parameters
130312	Temperature
130577	Direction Data
130578	Vessel Speed Components

# OPTIONAL ACCESSORIES

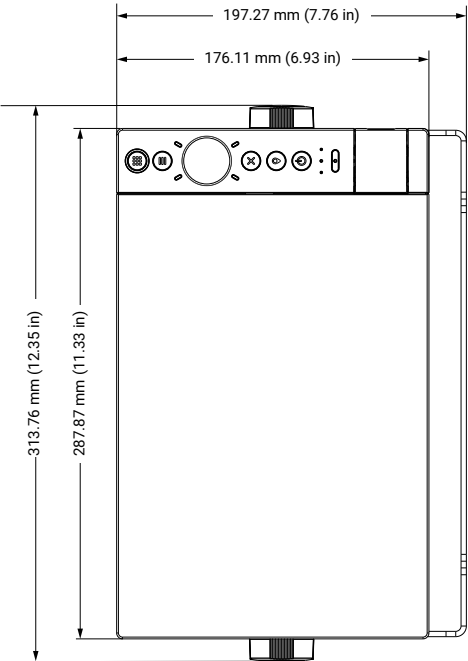
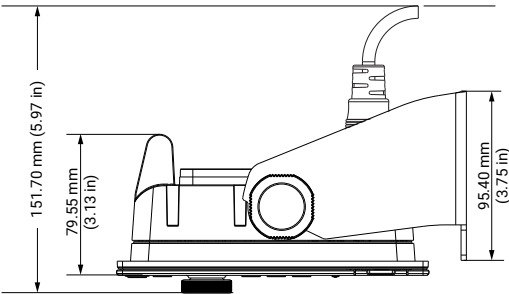
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000-16461-001	USB to video out female adapter
000-16448-001	M12 GbE to yellow 5-pin male adapter
000-16458-001	16" gimbal bracket

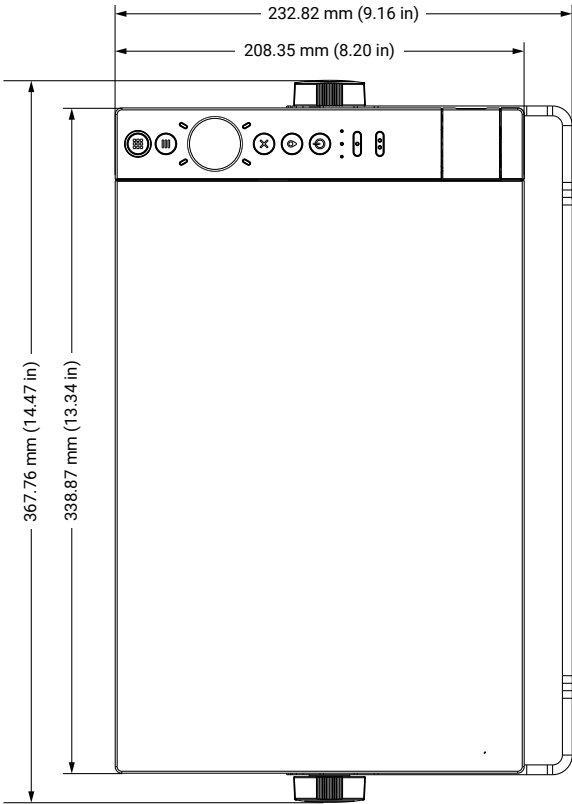
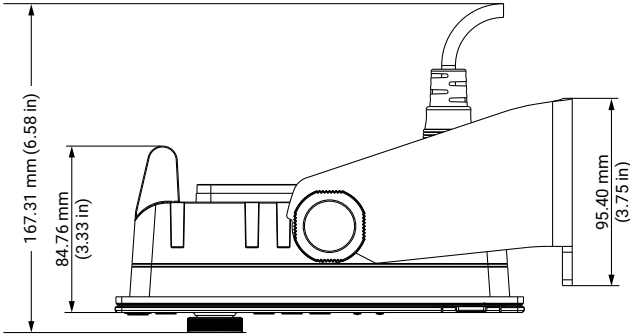
For a complete list of compatible accessories, visit [www.bandg.com](http://www.bandg.com).

# DIMENSIONS

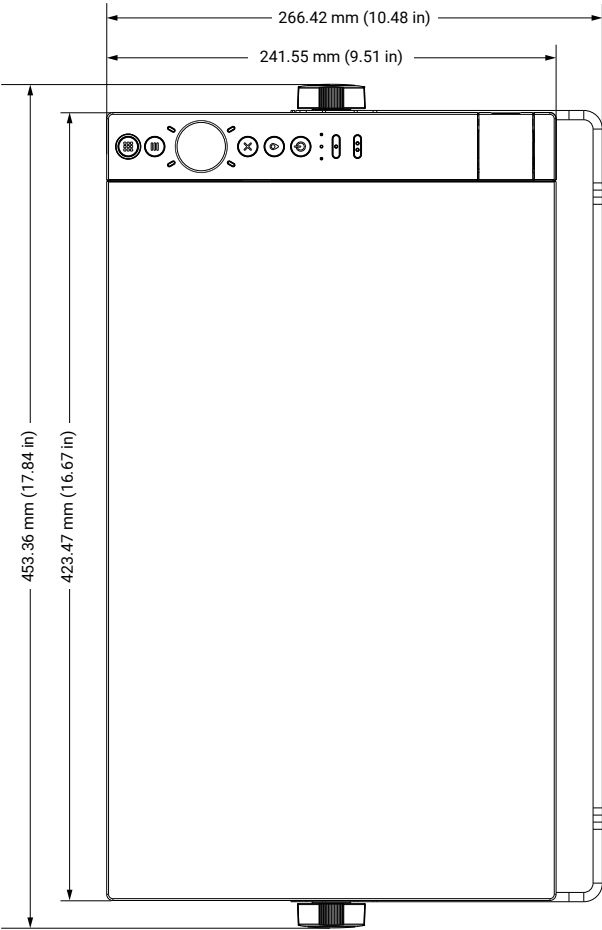
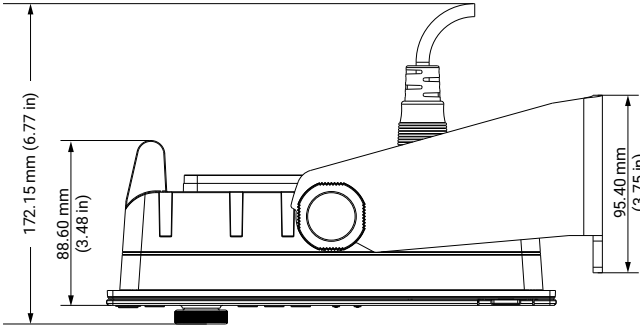
## 10" unit



12" unit

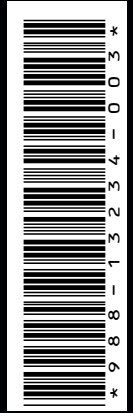


16" unit



# TECHNICAL SPECIFICATIONS

Display	10"	12"	16"
Resolution (px)	1280 x 800	1280 x 800	1920 x 1080
Luminance	1200 nits (typical)		
Touchscreen	Full touchscreen (multi-touch)		
Viewing angles in degrees	80° top/bottom, 80° left/right (typical value at contrast ratio = 10)		
Electrical			
Supply voltage	12/24 V DC (10 - 31.2 V DC min - max)		
Fuse rating	5 A		
Maximum power consumption	28 W	40 W	43.5 W
Protection	Reverse polarity and over-voltage (max 32 V)		
Environmental			
Operating temperature range	-15°C to 55°C (5°F to 131°F)		
Storage temperature range	-20°C to 60°C (-4°F to 140°F)		
Waterproof rating	IPX6 and IPX7		
Shock and vibration	100,000 cycles of 20 G		
Interface and connectivity			
GPS	10 Hz GNSS receiver for GPS and GLONASS, supports combinations with Galileo, Beidou, QZSS. SBAS (WAAS)		
Wi-Fi®	Wi-Fi 5 (IEEE 802.11ac-2013)		
Ethernet	1 port (X-Coded M12 GbE) 1 port (yellow, 5-pin)		
NMEA 2000®	1 port (Micro-C connector)		
Data card slot	2x (microSD®, SDHC®, SDXC®)		
USB	Not applicable	1 port (video output via optional adapter)	
Video	1 port (video input)		
Physical			
Weight (display only)	1.8 kg (3.97 lb)	2.8 kg (6.17 lb)	3.8 kg (8.38 lb)
Compass safe distance	35 cm (1.15 ft)	65 cm (2.13 ft)	
Mounting type	Gimbal bracket mount or rear mount		



***50°45'3.186"N***  
***1°31'45.971"W***

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