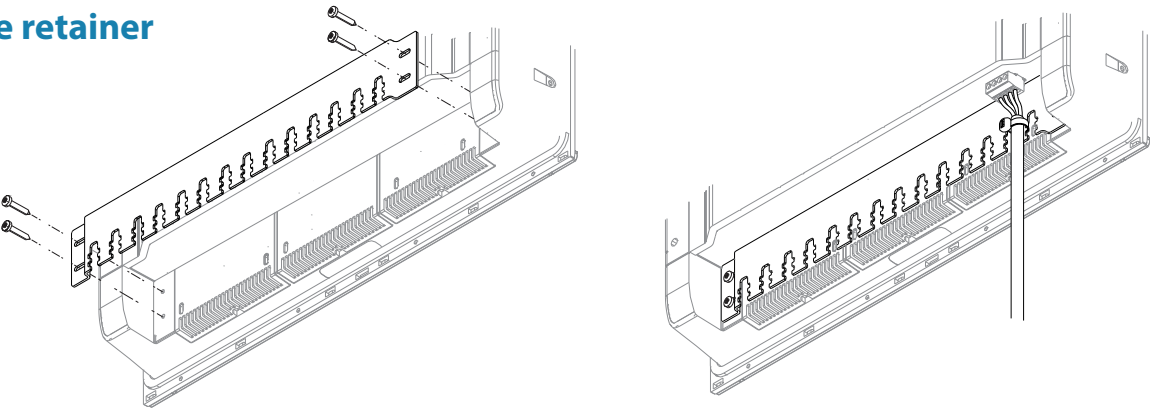


Technical specification

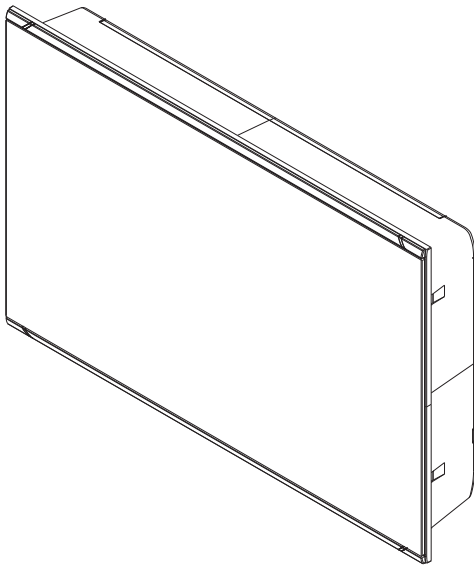
	16" unit	19" unit	24" unit
Display			
Resolution	1920 x 1080		
Brightness	1000 nits		
Touch screen	Full touch screen (multi-touch)		
Viewing angles in degrees (typical value @ contrast ratio = 10)	80° top/bottom, 80° left/right		
Electrical			
Supply voltage	12/24 V DC (10 - 31.2 V DC min - max)		
Power consumption - Max	40 W +- 4 W	50 W +- 4 W	80 W +- 4 W
Recommended fuse rating (12 V / 24 V)	6 A / 3 A	7 A / 4 A	10 A / 5 A
Environmental			
Temperature range	-15°C to +55°C (5°F to 131°F)		
Storage temperature	-20°C to +60°C (4°F to 140°F)		
Waterproof rating	IPX6 (when panel mounted correctly with only the front exposed)		
Humidity	IEC 60945 Damp heat 66°C (150°F) @ 95% relative (48 hr)		
Shock and vibration	100 000 cycles of 20 G		
Interface/Connectivity			
Ethernet	3x (RJ45)		
USB	3x (USB-A)		
J1393	1x (Micro-C)		
NMEA 2000	1x (Micro-C)		
NMEA 0183	4 ports		
Video output	1x high definition video output (1080p, no HDCP, HDMI-A)		
Video input	2x composite video (BNC) 1x high definition video (1080p, HDCP 1.4, HDMI-A)		
Data card reader	1x slot (microSD)		
Wireless	Internal 802.11b/g/n		
Physical			
Compass Safe Distance - Metric, imperial	50 cm		
Weight (display only)	3.9 kg (8.6 lbs.)	4.8 kg (10.5 lbs.)	7.8 kg (17.2 lbs.)
Mounting type	Panel mount or bracket (optional accessory)		

Cable retainer



B&G

Zeus³ Glass Helm
INSTALLATION GUIDE



For product manuals, technical specifications,
certificates and declarations refer to the
product website:

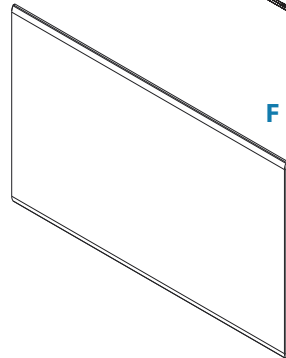
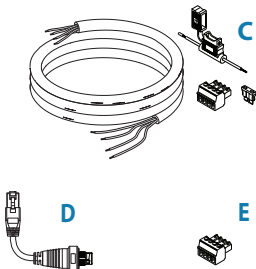
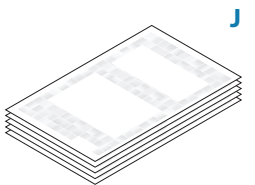
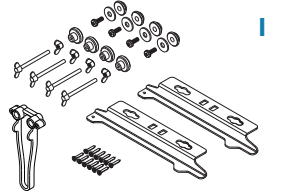
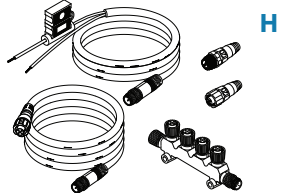
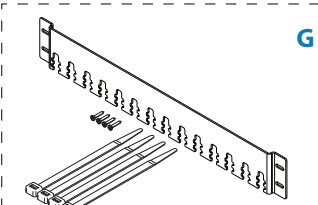
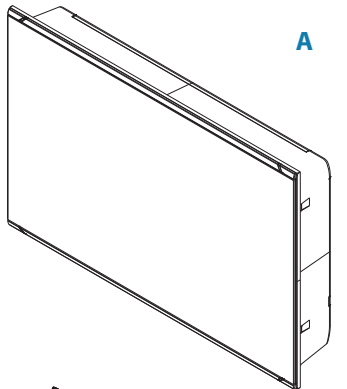
www.bandg.com



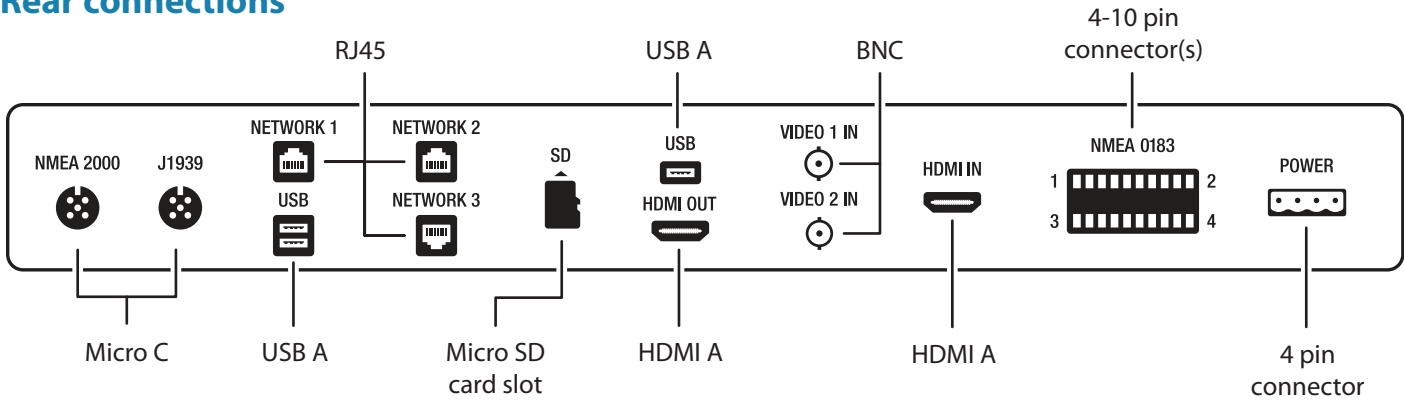
* 9 8 8 - 1 1 9 8 5 - 0 0 1 *

Parts included

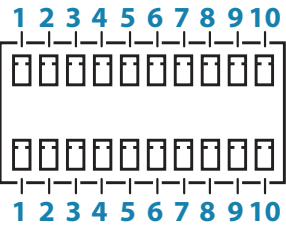
- A. Display unit
- B. Bezels
 - 1 set black bezels
 - 1 set silver bezels Documentation pack
- C. Power cable, fuse, fuse holder and connector block
- D. RJ45 to 5-pin Ethernet adapter cable
- E. NMEA 0183 connector block
- F. Suncover
- G. Cable retainer kit
- H. NMEA 2000 starter kit
- I. Panel mounting kit
- J. Documentation pack



Rear connections



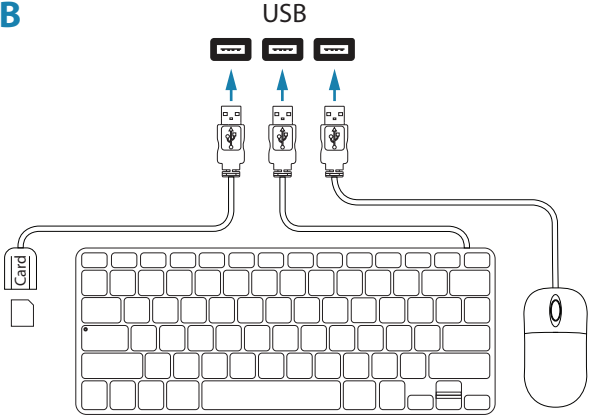
NMEA 0183



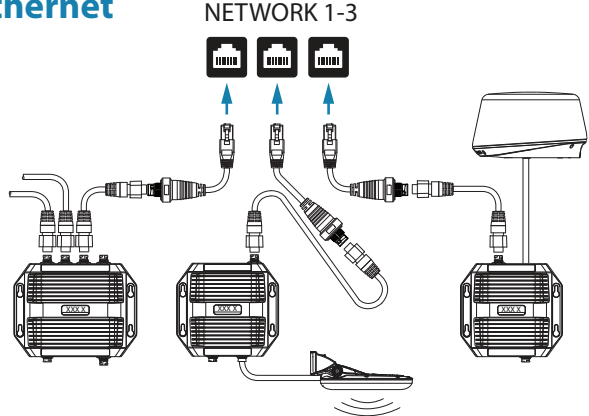
Pin	Top row	Bottom row	Purpose
1	Port 1	Port 3	TX_B (-)
2	Port 1	Port 3	TX_A (+)
3	Port 1	Port 3	RX_B (-)
4	Port 1	Port 3	RX_A (+)
5	Port 2	Port 4	TX_B (-)
6	Port 2	Port 4	TX_A (+)
7	Port 2	Port 4	RX_B (-)
8	Port 2	Port 4	RX_A (+)
9	Port 2	Port 4	Common
10	Port 2	Port 4	Shield
n	4 to 10 pin connector(s) can be used. The pin number (n) depends on the connectors location in the unit socket.		

→ **Note:** Ports 2 and 4 have additional Common and Shield connections to conform to NMEA 0183-HS.

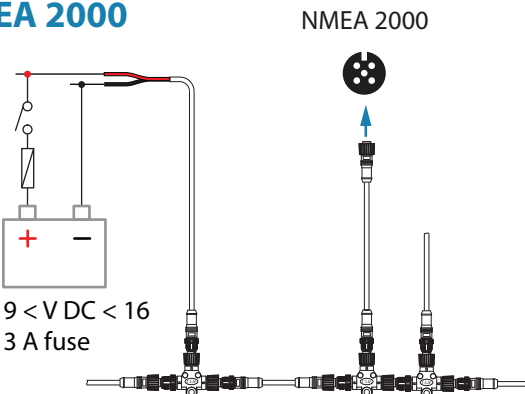
USB



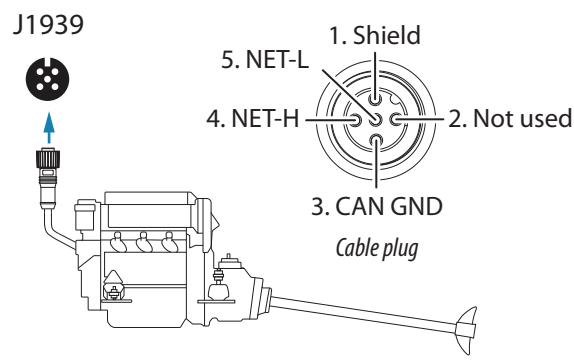
Ethernet



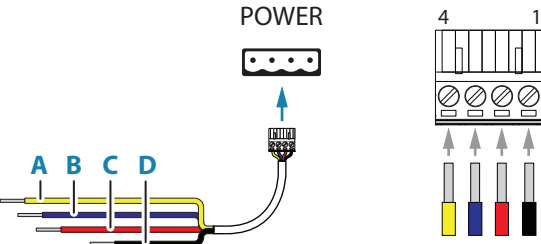
NMEA 2000



J1939

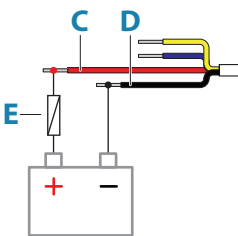


Power



- A. Power control (Yellow)
- B. External alarm (Blue)
- C. DC positive +12/24 V (Red)
- D. DC negative (Black)
- E. Fuse
- F. Siren and relay
- G. Buzzer
- H. Ignition switch
- I. Master/Slave bus

Power

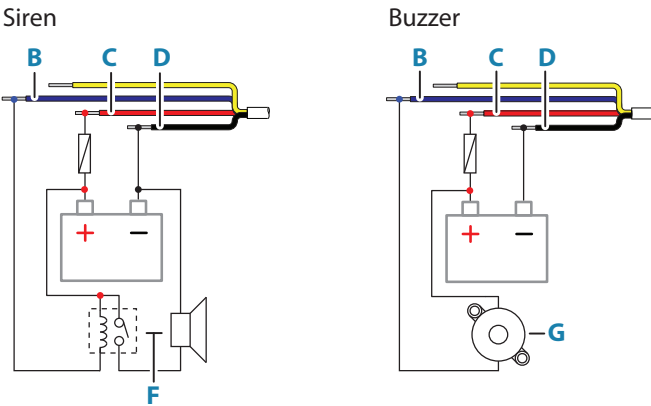


Supply voltage:
 $10.4 < V_{DC} < 31.2$

Power consumption:
16" unit: $< 40\text{ W} \pm 4\text{ W}$
19" unit: $< 50\text{ W} \pm 4\text{ W}$
24" unit: $< 80\text{ W} \pm 4\text{ W}$

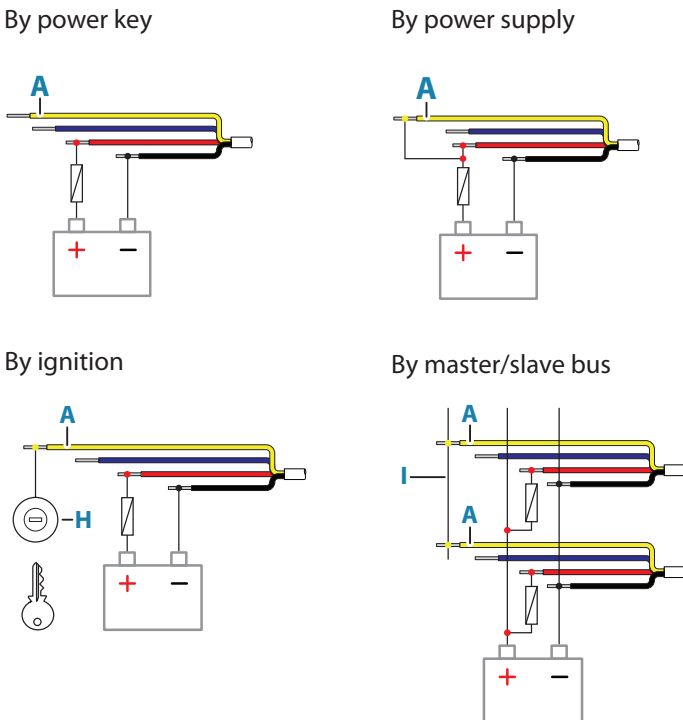
→ **Note:** For fuse rating see technical specification.

External alarm



→ **Note:** For sirens that draw more than 1 Amp, use a relay.

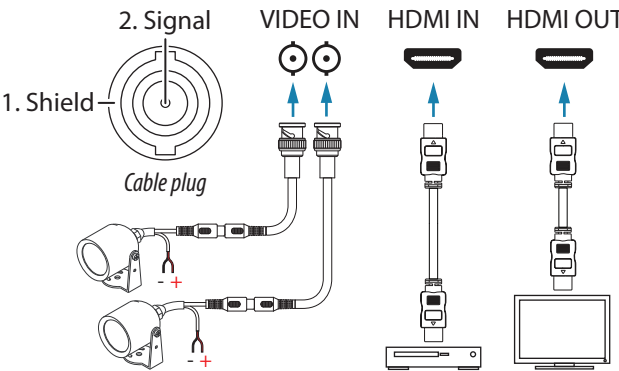
Power control



→ **Note:** If a unit has its power state controlled by another device (or ignition switch), it cannot be totally powered down. It can however enter a standby state to save power.

→ **Note:** Refer to the software setup chapter in the installation manual for master/slave configuration.

Video



SD card

