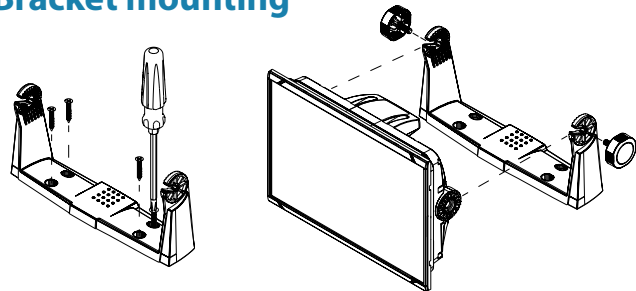


Technical specifications

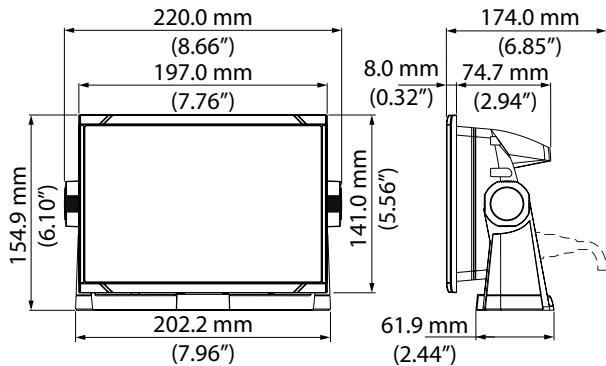
Display		
Resolution	800 x 480	
Brightness	>1200 nits	
Touch screen	Full touch screen (multi-touch)	
Viewing angles	Left/right: 70°, top: 50°, bottom: 60°	
Nominal viewing distance	0.85 m (2.79 ft)	
Electrical		
Supply voltage	12/24 V DC (9.0 - 31.2 V DC min - max)	
Power consumption	680 mA/ 330 mA at 12 V DC (backlight full/off) 380 mA/200 mA at 24 V DC (backlight full/off)	
Recommended fuse rating (12 V / 24 V)	3 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	IPX2	
Category	Protected	
Shock, vibration and humidity	According to IEC 60945	
Interface/Connectivity		
Ethernet	1x (RJ45) 100Base-TXS, 8P8C connector, IPv4	
Lightweight Ethernet protocol	IEE 802.3	
Maximum data rate	450 sps addressed to device, 500 sps unintended	
Buffer capacity	Dynamic serial buffer	
NMEA 2000®	1x (Micro-C ,1 LEN)	
Data card reader	1x slot (microSD)	
Comms		
IEC 61162-2 ports	2x	
Digital input	1x	
Analog input	1x (voltage, OR frequency, OR current)	
Power output (+16 V DC, 70 mA)	1x	
Datagram types	NkPgN and UdPbC	
Physical		
Compass safe distance	0.9 m (2.95 ft)	
Weight (display only)	1.32 kg (2.91 lbs)	

For product manuals, technical specifications, certificates and declarations, refer to: www.navico-commercial.com.

Bracket mounting

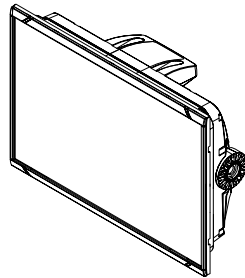


Dimensions

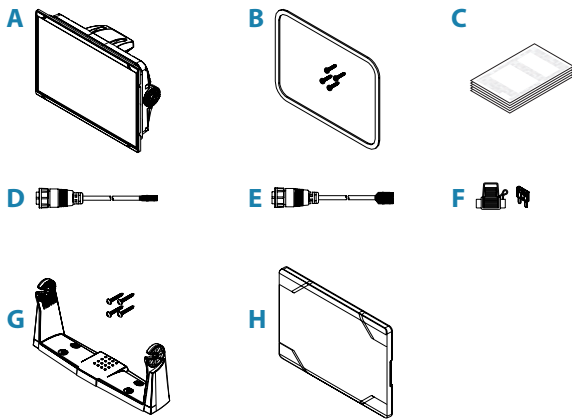


SIMRAD®

I3007
Installation Guide

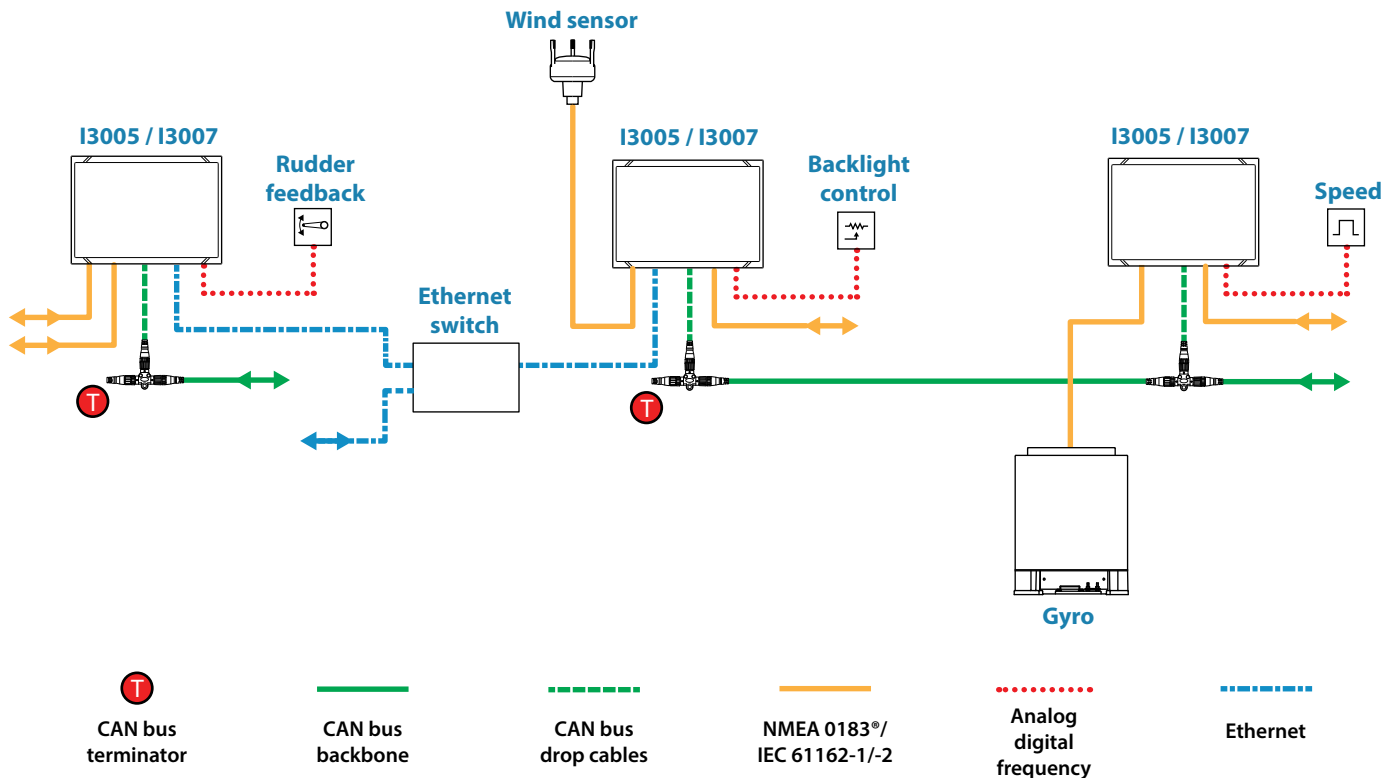


Parts



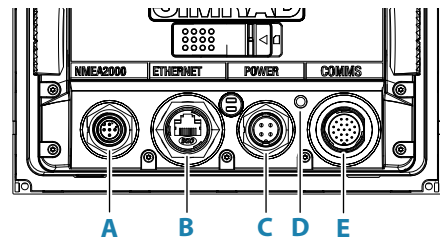
- A. I3007 unit
- B. Panel mounting kit
- C. Documentation
- D. Power cable
- E. Communication cable
- F. Fuse kit
- G. Bracket kit
- H. Suncover (sold separately)

System example



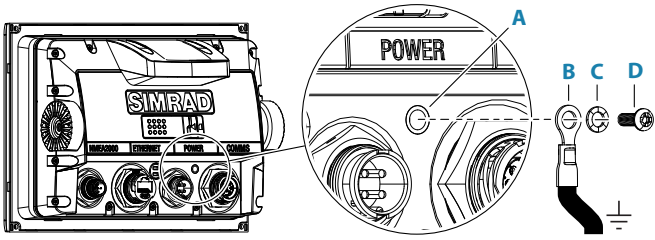
Connector overview

- A. NMEA 2000®, Micro-C connector
- B. Ethernet, RJ45 connector
- C. Power and external alarm, 4-pin connector
- D. Ground, M4 threaded insert
- E. Comms (communication), 19-pin connector



Grounding

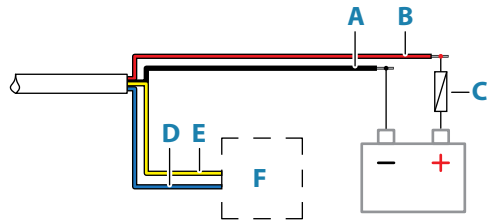
- A. Ground, M4 threaded insert
- B. Grounding cable, min. 0.82 mm² (18 AWG)
- C. Star washer
- D. Screw (M4-.7 X 6 mm)



→ **Note:** It is recommended that the unit ground is connected to the vessel's bonded ground or a non-bonded RF ground.

Power and external alarm

- A. DC negative - black
- B. +12/24 V DC - red
- C. Fuse
- D. Power failure alarm output (contact return) - blue
- E. Power failure alarm output (N/C isolated contact) - yellow
- F. Alert management system



→ **Note:** Refer to the technical specifications for electrical details.

Ethernet

The unit is equipped with a standard RJ-45 connector.

→ **Note:** Network switches can be used to extend the network. Routers and repeater hubs shall not be used.

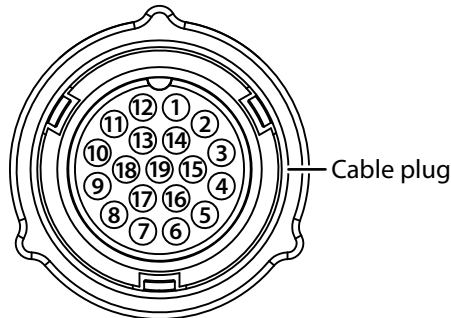
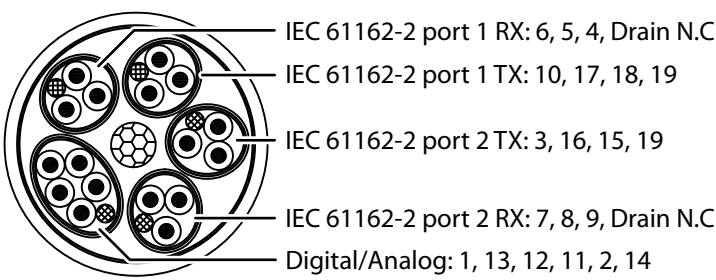
Network traffic filtering by external managed switch supports IGMP version 2.

NMEA 2000®

The unit is equipped with a standard Micro-C connector.

Communication cable

Refer to the Operator Manual for software setup. Wiring illustrations only include the required wires for the example.



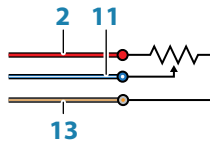
IEC 61162-2

Pin/Wire	Color	IEC 61162-2 port 1
10	black	TX common
17	white	talker (TX_A)
18	brown	talker (TX_B)
19	drain (gray shrink tube)	TX drain
7	black/white	RX common
8	yellow	listener (RX_A)
9	green	listener (RX_B)
N.C	drain (purple shrink tube)	RX drain

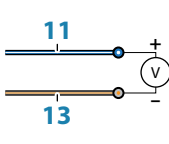
Pin/Wire	Color	IEC 61162-2 port 2
3	black/red	TX common
16	white/red	talker (TX_A)
15	brown/red	talker (TX_B)
19	drain (blue shrink tube)	TX drain
6	brown/red	RX common
5	yellow/red	listener (RX_A)
4	green/red	listener (RX_B)
N.C	drain (orange shrink tube)	RX drain

Backlight control / Rudder potentiometer

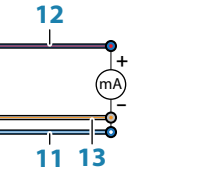
Potentiometer (10 k - 100 k Ohm, min 1 W)



Voltage sensor signal input



Current sensor signal input (mA)

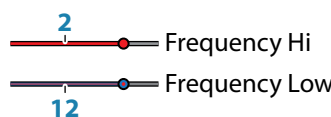


Frequency

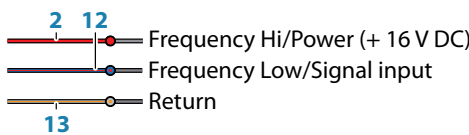
Supports rudder feedback units with:

- 3400 Hz as mid-position reference
- 20 Hz / degree increasing when the rudder moves to port and vice versa

2 wire example



3 wire example



Digital port (speed)

Pin/wire	Color	Speed log
1	pink	signal in
13	gray/orange	ground
14	drain (clear shrink tube)	not used

A speed log that outputs 200 pulses per nautical mile can be connected to the digital port.

- A. Speed log (200 pulses/NM)
- B. Ship's ground

