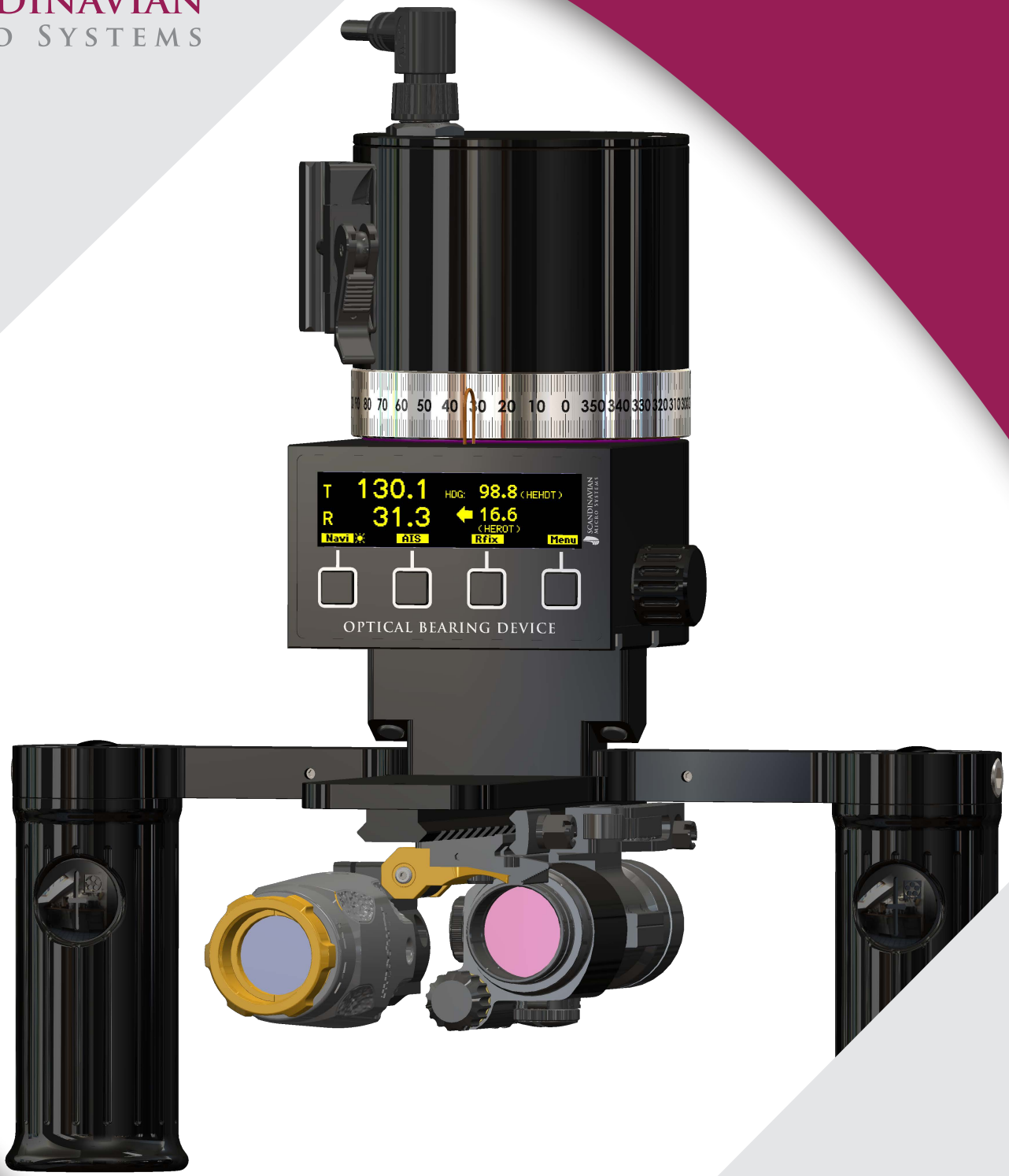
SCANDINAVIAN
MICRO SYSTEMS



OPTICAL BEARING DEVICE

Determine your ship's Position independently of the GPS

SR02-HEA-H6v3
DUAL-GRIP HANGING VERSION
shown with Red-Dot & 3X Optics

Determine your ship's position independently of the GPS

At Scandinavian Micro Systems we contribute to your safety at sea by developing and installing high-quality, precision navigation instruments for integration on board your vessel ... and we've been doing it for over 40 years.

- Use our Optical Bearing Device (OBD) with your ECDIS to quickly record LOP's during approaches and in narrow waters.
- Use our Optical Bearing Device (OBD) with your ECDIS to make fast and accurate Optical Position Fixes, Independently of the GPS.
- Use our Optical Bearing Device (OBD) to make fast and accurate Optical Running Fixes. Determine CPA and TCPA to critical turning points.
- Store the Optical Bearing Device (OBD) LOP's and Position Fixes in the Electronic Logbook.

KEY FEATURES

SOLAS Compliant Bearing Repeater

The OBD is certified as a group I azimuth reading device, with reference to ISO 25862 Annex C, and may with input from a certified gyro compass cover the requirements of SOLAS V/19.5.3 for gyro-compass bearing repeater

Key Optical Bearing Device functions

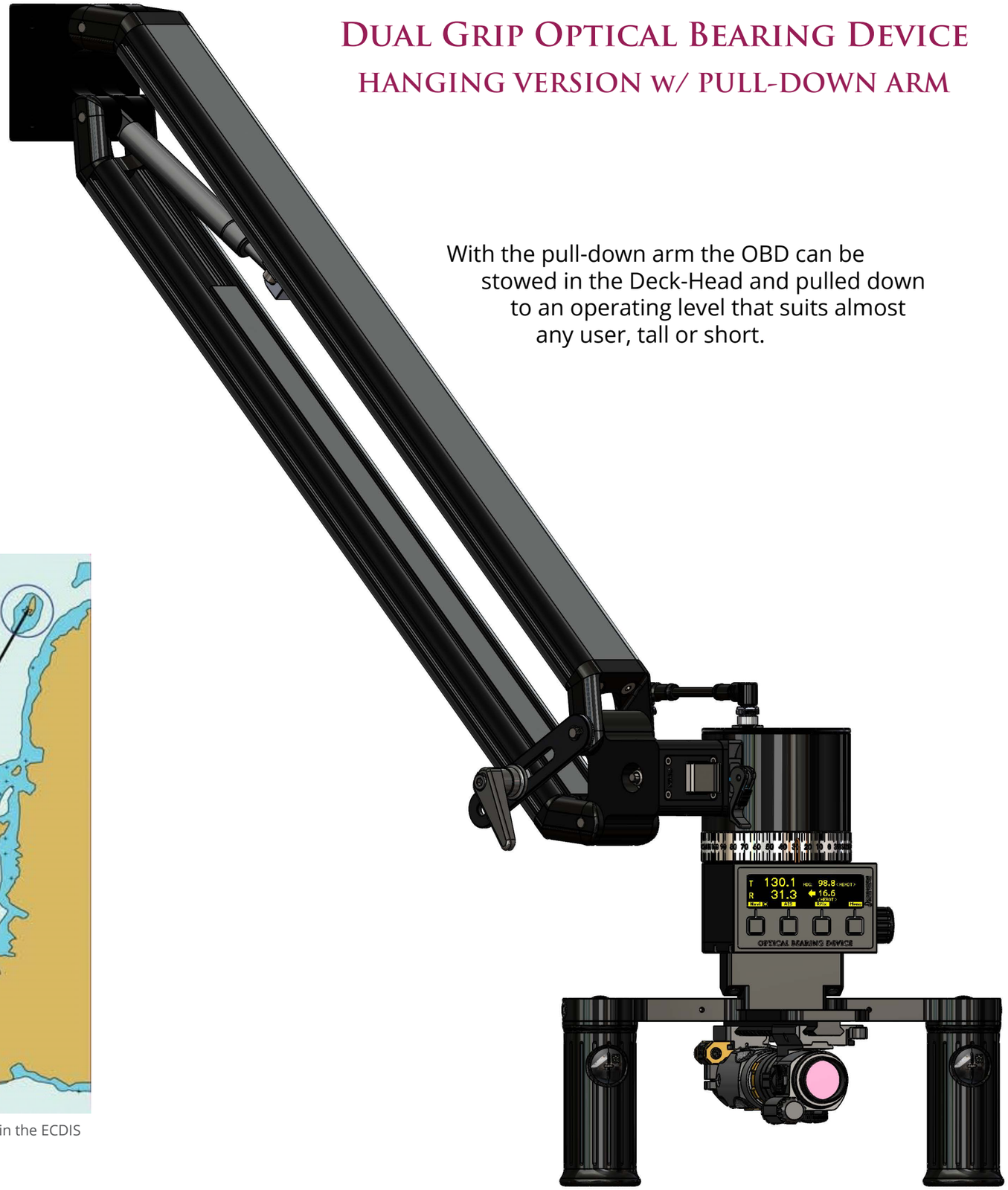
- ***Optical Bearing Line (OBL) in ECDIS and/or Radar***
- ***Display OBL directly in the ECDIS and/or RADAR***
- ***Optical Position Fixes***
- ***Determine your position independently of the GPS***
- ***Optical Running Fixes***
- ***Determine CPA, TCPA and RANGE to fixed objects independently of the GPS***
- ***Stores the Optical Position Fixes in Electronic Log-Book***
- ***Identify Other Ships you see through the OBD optics***
- ***Received AIS information in Real-Time, directly in the OBD display***

Principle of Manual Position Fix w/ 3 LOP's in the ECDIS

Dual Grip Optical Bearing Device

HANGING VERSION w/ PULL-DOWN ARM

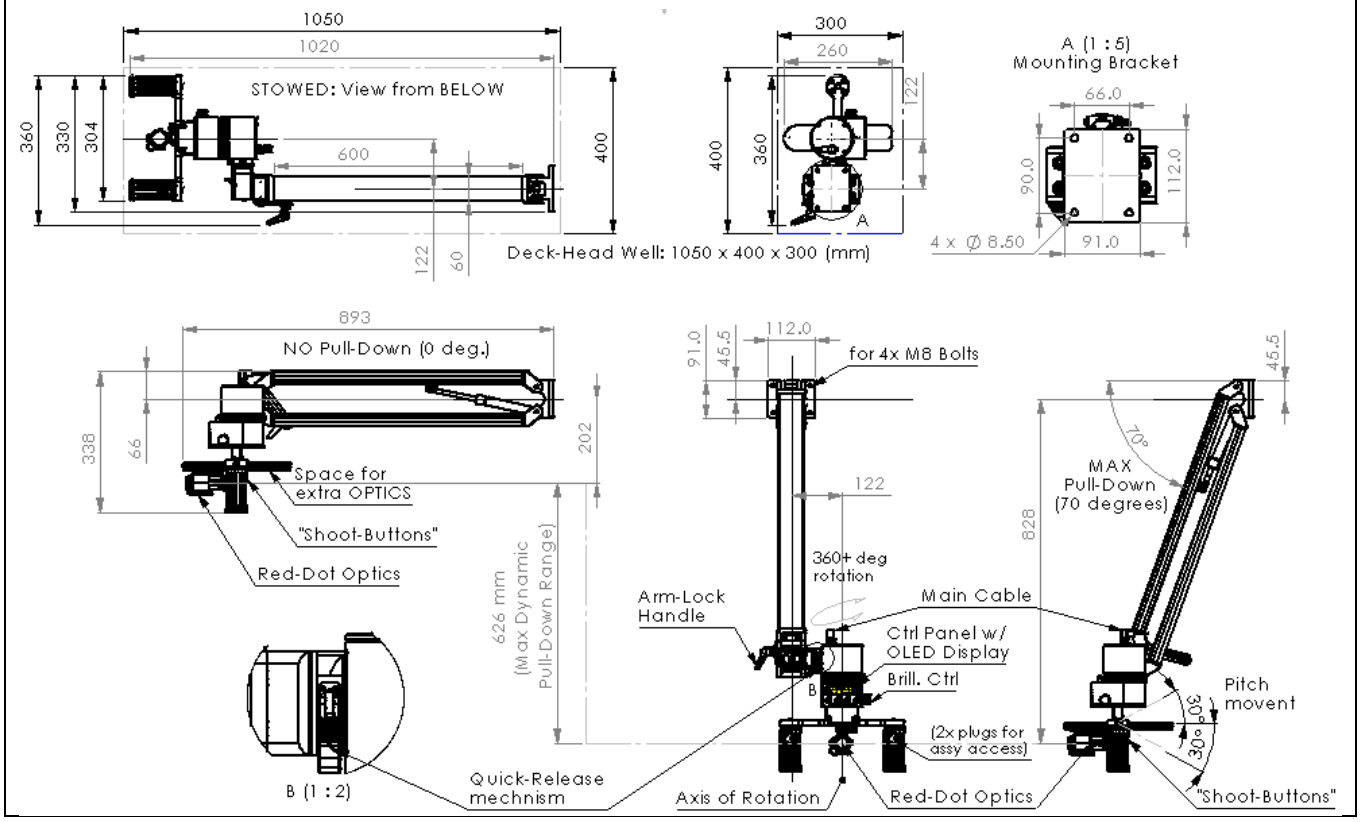
With the pull-down arm the OBD can be stowed in the Deck-Head and pulled down to an operating level that suits almost any user, tall or short.



Technical Specification

OBD HEAD UNIT: SR02-HEA-H6v3 w/BRACKET: BRA-H600v1 (ARM)

DUAL-GRIP HANGING VERSIONS FOR PULL-DOWN AND DECK-HEAD MOUNTING



TYPE APPROVALS:

EU Type Approval Certificate MEDB00004KH Rev 1 and EU Quality System Certificate MEDD00002BJ Rev 1
UK Type Approval Certificate MERB00004KH Rev 0 and UK Quality System Certificate MERD00002BJ Rev. 0

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ENVRONMENTAL

IEC60945	Tested and approved to the requirements of IEC60945
Operating temperature range:	-25°C to +55°C
Storage temperature range:	-25°C to +70°C
Ingress Protection (IP)	Main Head Unit: IPx6 (for Open Bridge Wing mounting)

POWER REQUIREMENTS:

Supply Voltage:	24V DC, +10/-20%
Max Power:	10 W

COMPASS SAFE DISTANCE: 50 cm

DEVICE ACCURACY:

Relative bearing accuracy:	+/- 0.1°
True bearing accuracy:	+/- 0.1° (+/- gyrocompass error)
Display and data output resolution:	0.1°
Free angular Rotation of Aiming Optics	Unlimited

OPTICS

Standard Optics	AimPoint® Red-Dot Sight (MOA-2)
Optics Mounting	PICATINNY Rail ®, flexible mounting w/ option to add extra optical devices
Optional Optics	3x Magnifier Optics with Flip-Mount

DATA INPUT & OUTPUT

Data INPUT on RS-422: IEC61162-1 ed 5.0 and IEC61162-2 ed 1.0	External Navigation data inputs used: Heading, Speed, GPS Position, SOG & COG, Time & AIS
Data OUTPUT on RS-422: EC61162-1 ed 5.0 and NMEA 0183	Proprietary NMEA approved data sentences to/from ECDIS or RADAR. OBL: (continuous Optical Bearing Line data) LOP: User-triggered line-of-position and request from ECDIS
RS-422 BAUD RATES:	4800 b/sec to 38400 b/sec with update rates of max 50 times per second

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