AHD-DC RS
Display Control Unit with Rotary Push Drive

- ***Remote Control for Böning panel PCs and displays of the series AHD 11XX AHD 12XX and AHD 13XX, beginning with model year 2012 and devices by other manufacturers***
- ***Multi control for displays***
- ***Data communication on CAN bus***
- ***Comfortable control of the display menus and visualization with illuminated and ergonomic rotate-shift rotary switch***
- ***Robust and elegant design for sophisticated demands***
- ***Compact unit for installation in panels, consoles or arm rests***

The Display Control Unit AHD-DC RS provides all necessary functions for operating Böning panel PCs (AHD 12XX and AHD 13XX series) and displays (AHD 11XX series). With the control unit, all visualization pages, for instance, can be opened in the display, and their control elements can be used. Furthermore, in combination with an AHD-CUC devices by other manufacturers can also be controlled. Moreover, it also provides the functions of the Control Unit AHD-DC, so that AHD-DC RS can also be used to select the panel PC or display, thus reducing the number of installed devices.

AHD-DC RS is equipped with a plug connector for the CAN bus and a 5-pin terminal strip (24 V DC power supply as well as an alternative connection for the CAN bus).

AHD-DC RS provides an acknowledgement button for acoustic and optical alarms and a SOURCE ON/OFF button for switching the screen of the controlled device on and off. The display menu can be quickly opened with a designated button.

As with all other display control panels, the buttons are dimmed automatically with the controlled device.

The control CAN bus is separated from the other CAN bus systems (e.g. SAS-CAN for the ship alarm and monitoring system or engine CAN bus) to achieve problem-free data communication.

For safety reasons, each control panel connected to the control CAN has a separate 24 V DC power supply.

BÖNING
SHIP AUTOMATION

Control Elements of AHD-DC RS

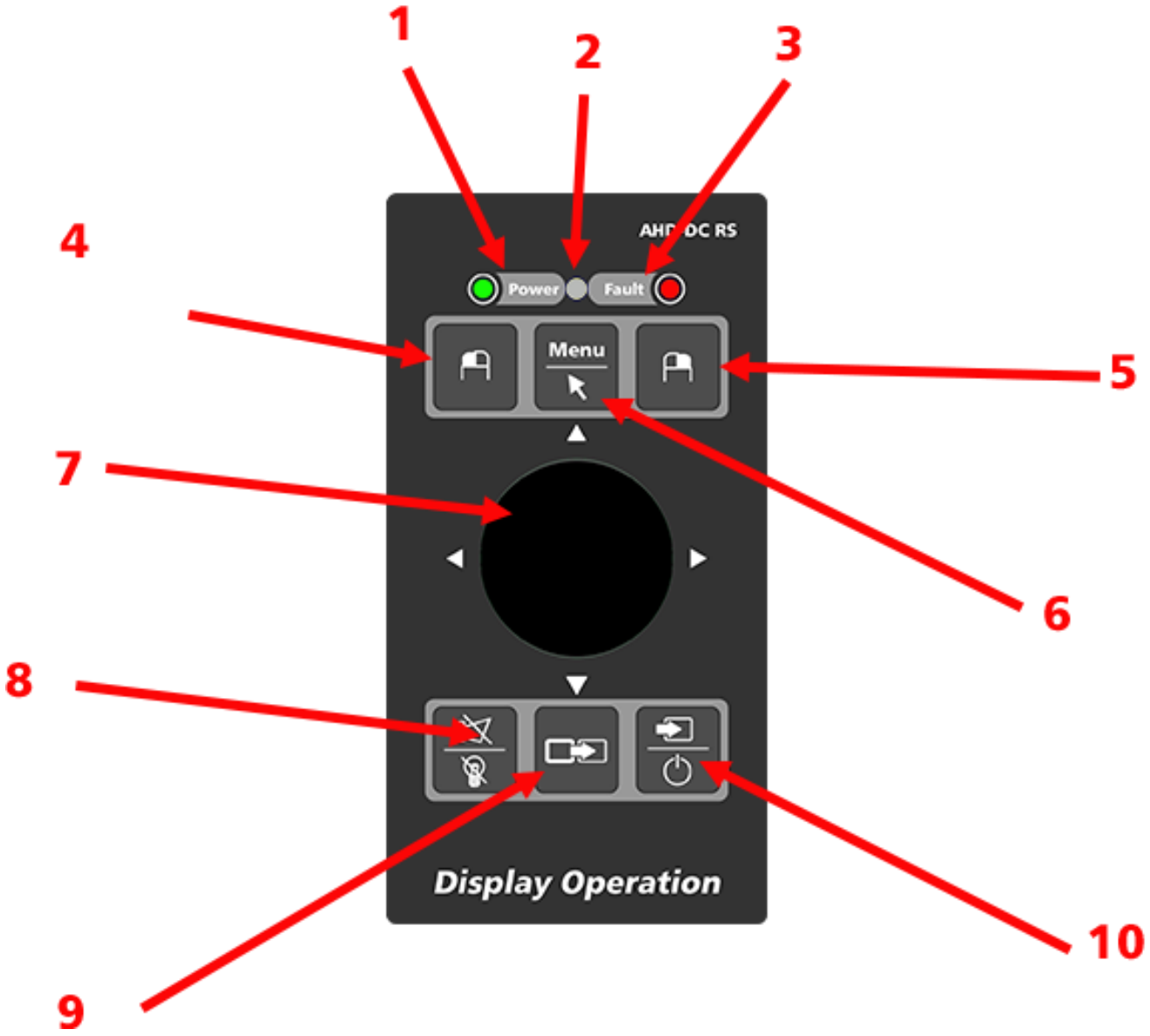
With AHD-DC RS, it is possible to operate the visualizations on the Böning displays and, in combination with an AHD-CUC, the functions of devices by other manufacturers.

Control Elements (Default)

No.	Function
1	Power LED
2	Light sensor
3	Fault LED
4	Button press left
5	Button press right
6	Short press: Direct selection of the main menu on the active PC. Long press till 1 beep: Switch to mouse mode (the button is lit). Another long button press switches back to menu selection mode. Long press till 2 beeps and LED of button flashes activates mode for display settings: Button rotated to the left dimming +, to the right dimming -, left mouse button dimming mode, right mouse button aspect ratio
7	Rotary push drive with shift function. Rotate: Change to the next/previous GUI element. Tilt: Change to the next GUI element in the respective direction
8	Alarm acknowledgement acoustic/optical
9	Select the next PC. The selection begins with the device that has the lowest ID, moving to the next one; if the highest ID has been reached, it switches back to the lowest.
10	Short button press: Switch the PC to an external video source for the active display. Long button press: Switches the active display off.

Control elements for devices by other manufacturers (depending on the configuration of the AHD-CUC). Here is an example for the Furuno TZ Touch Blackbox.

No.	Function
4	Button press left
5	Center vessel – Centers the ship when in map view.
6	Short button press: Change to menu Long button press: Switch to mouse mode (the button is lit). Another long button press switches back to the menu selection mode.
7	Button press: Opens the context menus (opens the respective sub-menus of the active page) Rotate: Zoom in (right), zoom out (left) in the map/radar view or change to next/previous GUI element (in the menu view). Tilt: Moves the map (right/left/up/down) in the map view or controls the mouse pointer when in mouse mode.
8	During incoming alarms, the active display switches to the visualization for alarm acknowledgment. If no alarms are pending, pressing this button closes the open sub-menu.
9	Select the next PC. The selection begins with the device that has the lowest ID moving to the next one; if the highest ID has been reached, it switches back to the lowest.
10	Short button press: Switch to the next video source for the active display. Long button press: Switches the active display off.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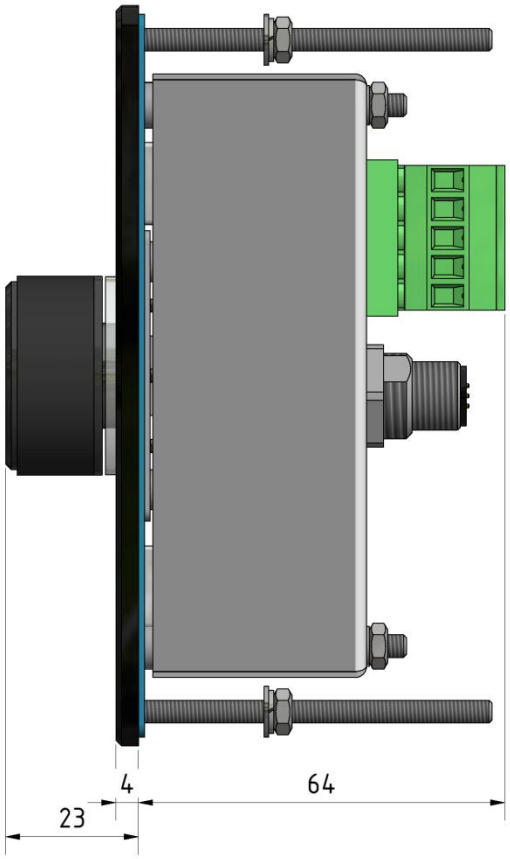
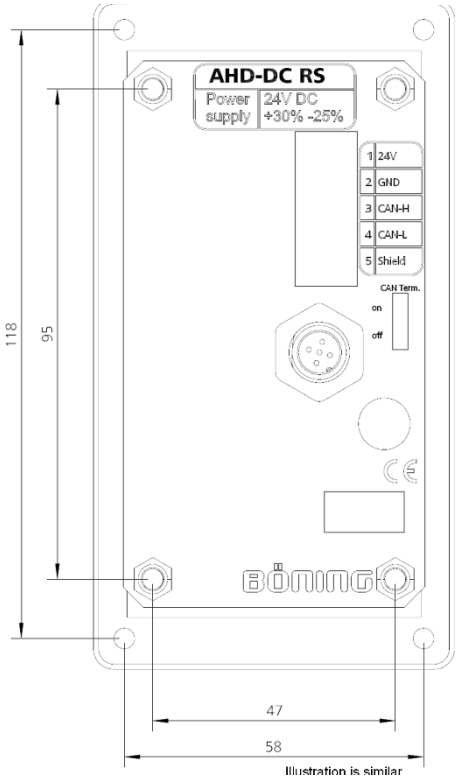
Power
Fault
Menu
Display Operation

Technical Information





Technical Data

Mechanical Data	
Dimensions, W x H x D	70 x 130 x 87 mm
Weight	Appr. 0.3 kg
Environmental Data	
Operating temperature	-30 °C … +70 °C
Storage temperature	-50 °C … +85 °C
Protection class	IP 44 (frontside) IP 20 (rear)
Electrical Data	
Power supply	24 V DC (+30% -25%)
Current consumption, max.	Appr. 40 mA (24 V DC)
Ports	
1x CAN	Data communication with displays on control CAN (CAN 7 of devices produced 2015 and later, CAN 5 of previous devices)
5-pin terminal strip	Connection for the 24 V DC power supply Alternative connection for the CAN bus