

Radar





AlphaScan 5900 Powered by JRC

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Choose your display

The new AlphaScan 5900 can be connected to the AlphaScreen 19-inch and 26-inch proprietary displays. Both displays are completely new following the latest standards and are developed in line with minimalistic design approach.



Trackball, as minimum

A smart multi button found on the operating unit allows the operator to "turn and press" to access various functions such as zoom, display and brightness and track color. The function selected at that point is shown at the top center on the display.





Keyboard

The newly designed full-size QWERTY keyboard (option) is just as comfortable to type on as a desktop keyboard. Response feel keys allow logical and precise operation while backlighting allows typing in low-light conditions with ease. One touch access to EBL, VRM, RAIN, SEA and GAIN is available from the keyboard with dedicated (analog) push and rotate buttons.

Central control unit

The Central Control Unit (CCU) can be used for your basic interfacing and configuration. A wide range of standard interfacing is directly available from this unit. The CCU includes two in-house designed Blizzard[™] processors, bringing operational performance to a whole new level, especially for the complex tasks running flawlessly in the foreground and the background. Ready for years ahead.



Junction box

The AlphaScan 5900 includes the junction box and Radar Interface (RIF) as standard. Extending your system by extending the number of interfaces and ports can be done the moment you purchase your system or can be upgraded while at sea. Either way, the junction box with the ability to hold a variety of boards plays a central part.



Advanced proccessing

The AlphaScan 5900 includes the powerful Blizzard[™] processor that features advanced signal processing and graphic drawings, regardless of which display you are using it delivers unprecedented performance - all around. So whether you are browsing through your alarm list, tracking 100+ ARPA and/or AIS targets, the AlphaScan 5900 with its Blizzard[™] processing flies through the most complex tasks with incredible power and speed.

TT in the background

If you want to track a target, you will get a stable vector immediately. That is because that the detected target was already being tracked in the background. This applies for up to 100 potential targets tracked in the background up to as far as 32NM, in "near to far" order. Blizzard[™] is always assisting you, even though you do not need it at that moment.

Radar in the background

The enormous processing capability of Blizzard[™] allows superfast display of the radar picture, even outside the PPI. One range up and down from the range you currently have on display is being processed in the background, allowing for immediate response and display when range is changed. Seeing is believing.

Tracking zoom outside PPI

While being in shipping lanes or on busy open waters, it could happen that the target you are tracking is outside your visible area. Blizzard[™] continues to track these targets many nautical miles outside the circle. Simply select a starting point and drag the cursor outside the PPI to track zoom on a separate window. And the tracking zoom continues to follow the target until you close the window.



Scanners

The AlphaScan 5900 includes a wide range of scanners. X-band offers greater resolution and detection of smaller targets, but is subject to interference from rain and seas. S-band radar has a longer range and less interference from rain and sea clutter, but has less sensitivity for small targets. Available as a traditional magnetron type or solid state (S-band), low maintenance scanners, various scanner lengths and output power, normal or high speed, many variations are possible, to always have a solution at hand to fit your type of vessel. New in this radar series are the second generation Solid State S-band scanners, available in normal and high speed. This much more air shippable scanner it is smaller and lighter than the original 12ft scanner.

In the box

System consisting of

- Central Control Unit
- Trackball
- Power supply

19-inch display

26-inch display

19-inch display

26-inch display

Power supply

Gyro interface

Keyboard



- **NCM-928R**
- NDC-1590
- NCE-5605
- NBD-913

Junction box Radar interface Cables + Manual

Scanner

NKE-xxxx NQE-1143 CQD-2273

AlphaScreen 19 AlphaScreen 26 NWZ-207 NWZ-208 NBA-5111 NCE-5625 Serial to LAN convertor CMH-2370 CMJ-554

Sensor LAN switch	NQA-2443
Interswitch 4-ch	NQE-3141-4
Interswitch 8-ch	NQE-3141-8
Power Control Unit (PCU)	NQE-3167
Desktop frame for NWZ-207	CWB-1594
Desktop frame for NWZ-208	CWB-1595
Operation desktop frame	CWB-1596
Trav	CWB-1593

Trackball RoHS NCE-5605 Weight 1.3 kg

Tech Specs



2-inch trackball 2 buttons click (left and right) USB and speaker Vibration of alert and warning Multi function button Cable up to 5 m (option 30 m) System ON/OFF button

Central Control Unit (CCU) ROHS NDC-1590 Weight 5.6 kg



1x DVI-D, 1x VGA 2x IEC61162-1, 2x IEC61162-2 3x LAN, 2x dry contact, 1x trackball, 1x serial operation 1x power, 3x USB 1x RIF, 1x DVD drive 1x ground

Tech Specs

Power Supply Unit (PSU) ROHS NBD-913 Weight 4.2 kg



AC input 85 to 264V AC DC input 21.6 to 31.2V DC Over voltage protection DC output 12V, 2A (standby) DC output 24V, 4A (CCU) DC output 24V, 6A (display) DC output 48V, 4A (scanner)

Junction box RoHS NQE-1143 Weight 3.8 kg



Power 21.6 to 31.2V DC Power consumption 48VA (max) Current protection 3Ax2 15Ax1 Reverse polarity protection Temperature: -15° to 55°C Protection rate: IP20 Humidity: ≤93% noncondensing

Radar interface RoHS CQD-2273 Weight 50 g

1x scanner input 1x slave video output Radar video 0 to 2.6V DC, 50Ω, log scale 50dB/V Trigger positive, 4V, 1µs, 50Ω Bearing pulse (BP) 2048 pulse/round Bearing zero (BZ) 1 pulse/round



Tech Specs

10kW X-band RoHS

NKE-2103-6 Weight 40 kg

25kW X-band (high speed) (RoHS)

NKE-2254-6HS Weight 55 kg

25kW X-band Rohs

NKE-1125-9 Weight 60 kg

250W S-band [solid state] [RoHS]

NKE-2632 Weight 85 kg



290 mm

J 290 mm

6ft/1880mm (swing circle 1910mm)

9ft/2810mm (swing circle 2825mm)

8ft/2750mm (swing circle 2770mm)

10kW X-band (high speed) (RoHS) NKE-2103-6HS Weight 40 kg



25kW X-band Rohs NKE-1125-6 Weight 55 kg



NKE-1130 Weight 180 kg



250W S-band [solid state] [high speed] [RoHS] NKE-2632-H Weight 90 kg









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Centers of Excellence Houston, Rotterdam, Singapore, Tokyo

Contents are subject to change without notice, some functions are optional or may require a future software update