

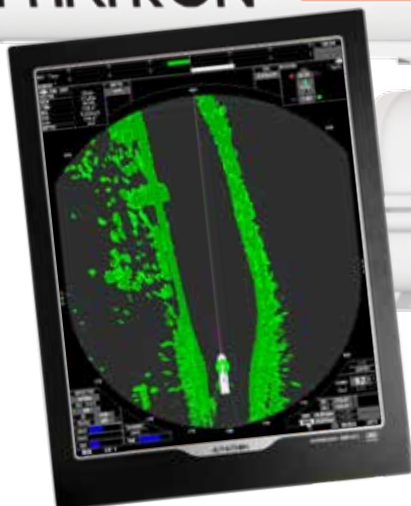
# River radar

JMR-611 series

ALPHATRON  
Marine



- Unprecedented wave suppression
- Best User Interface
- Choose from a refreshing standard or all-glass monitor
- Aerodynamic scanner for extreme weather conditions



## Category

Inland



Inland



Workboats



Fishery

[alpatronmarine.com](http://alpatronmarine.com)

# Features |

The next generation river radar from Alphanon Marine / JRC is the JMR-611 radar. This radar is characterized on open water by an excellent suppression of wave action (if a GPS compass is connected) and has a particularly attractive user interface. Both monitors meet the new reflection requirements that are currently imposed on radars. Due to the use of an aerodynamic scanner and accompanying engine, this radar is extremely suitable for the most extreme weather conditions.

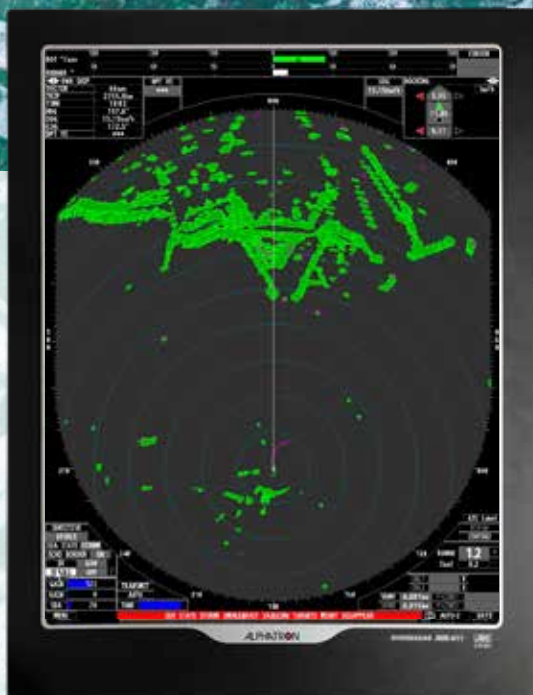
- 19 inch fully dimmable LED display
- High quality
- Optional fully optical bonded glass monitor
- Sea state function
- Choice of 6, 7 or 9ft scanner
- Highspeed for 6 and 7ft scanner
- Recording function on CF card
- User friendly GUI

## Sea State function |

The JMR-611 radar is the first river radar which in combination with a GPS compass and smart calculation technology is able to minimize the annoying waves on large water, without losing sight of the small echoes.



JLR-21 GPS-compass



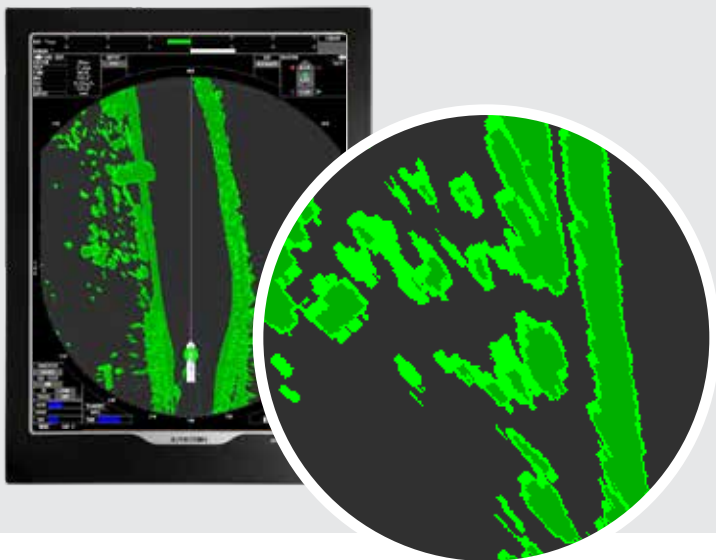
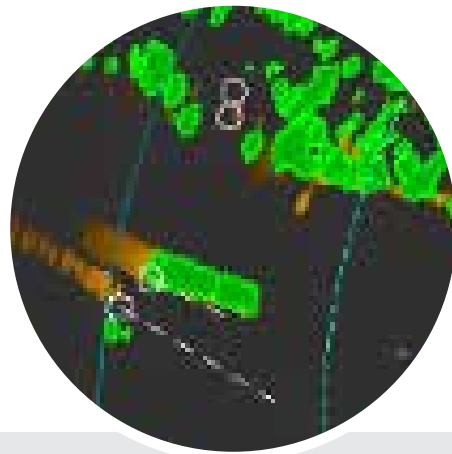
## Functionality |

By connecting a GPS compass you achieve the maximum functionality of this radar. Such as the Sea State function, AIS display, own vectors, docking, true trails and RTH-up function.



# Afterglow |

By connecting the radar to a GPS compass, the true movements of ships can be shown, without the image being filled with relative afterglow trails. A great help in recognizing objects without AIS and determining moving targets.

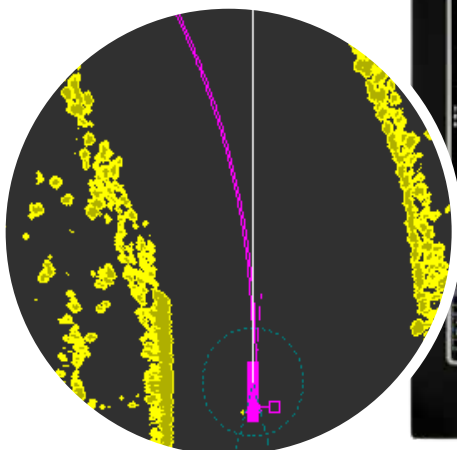


# Echo Border |

For a sharper display of the radar echoes, the radar is equipped with the Echo Border function. In combination with the Expansion function, the echoes will be shown with a clear outline.

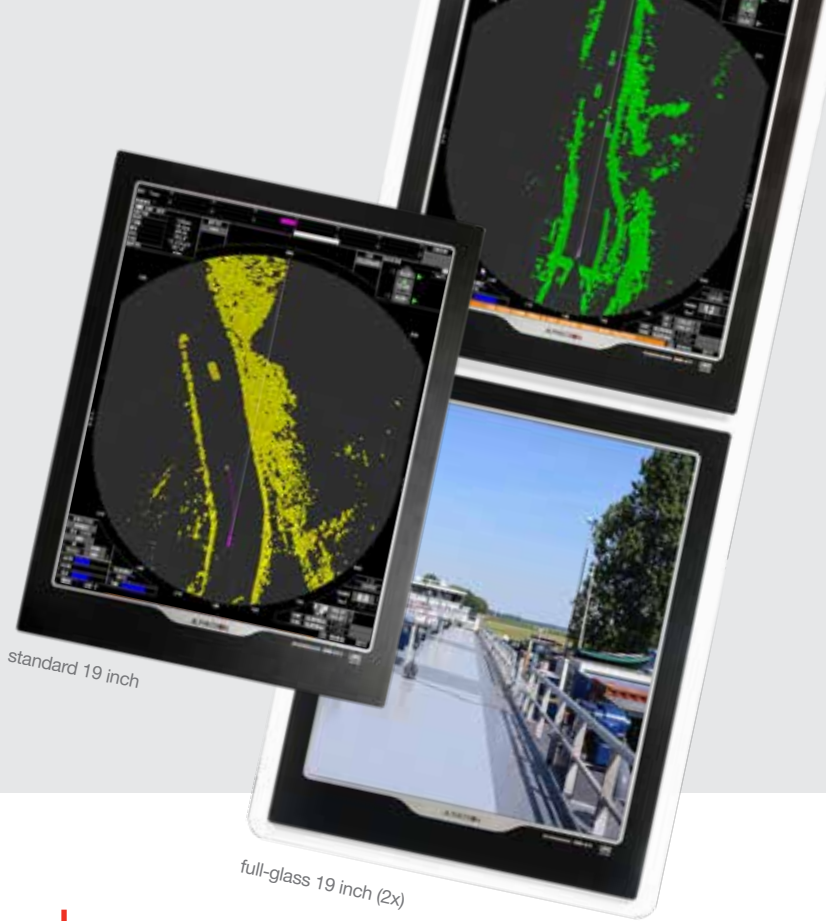
# Prediction lines |

The unique docking & prediction lines introduced with the JMA-609 radar has been improved for the JMR-611 radar. By this improved calculation technique 2 stable lines are shown from the fore and aft ship. These lines (vectors) indicate where the ship will be in a set time. This feature is available if there is a GPS compass or 2 GPS antennas (1x fore and 1x stern) installed.



# Monitors |

The JMR-611 is the first river radar to meet the strict requirements for maximum reflection from radar monitors. There is a choice of 2 different fully dimmable monitors, both of which of course meet new requirements.



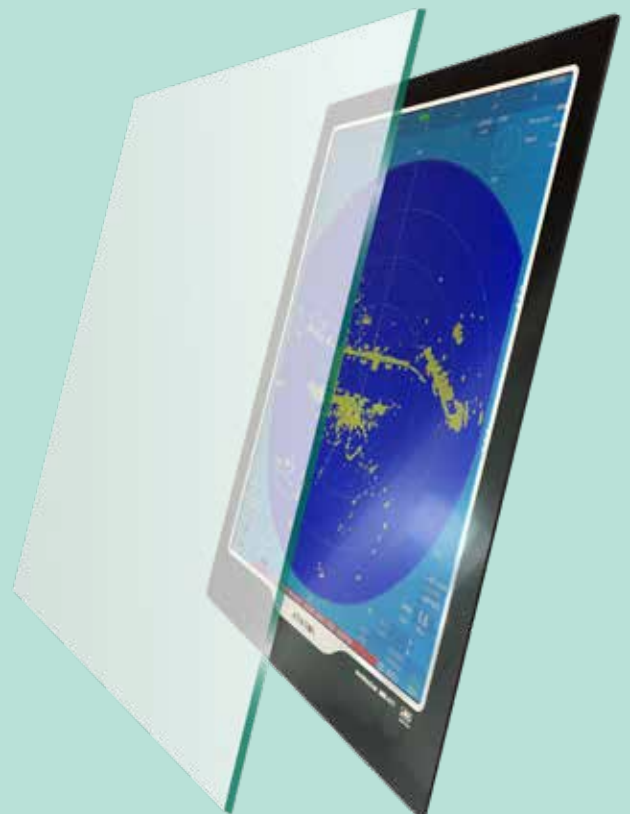
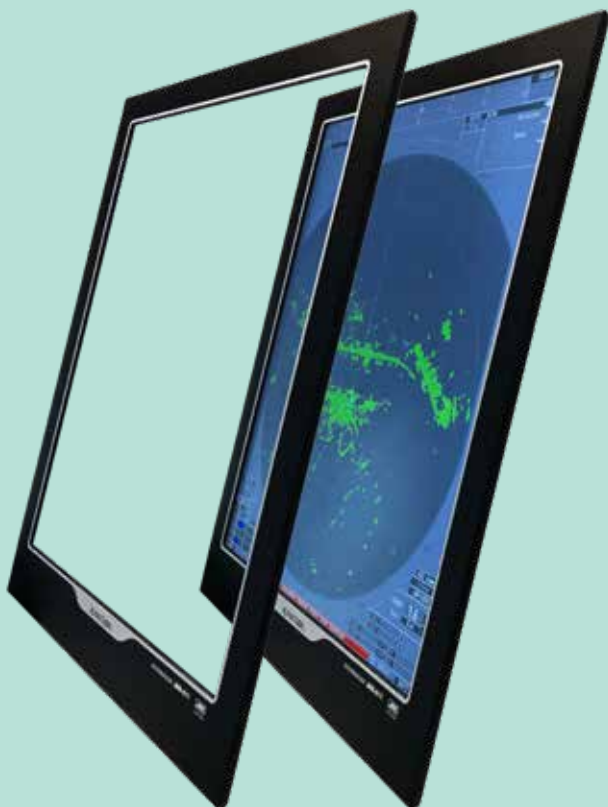
standard 19 inch

full-glass 19 inch (2x)

# Robust and design |

Choose the robust 19 inch standard LED monitor, without protective glass with the familiar black aluminum front.

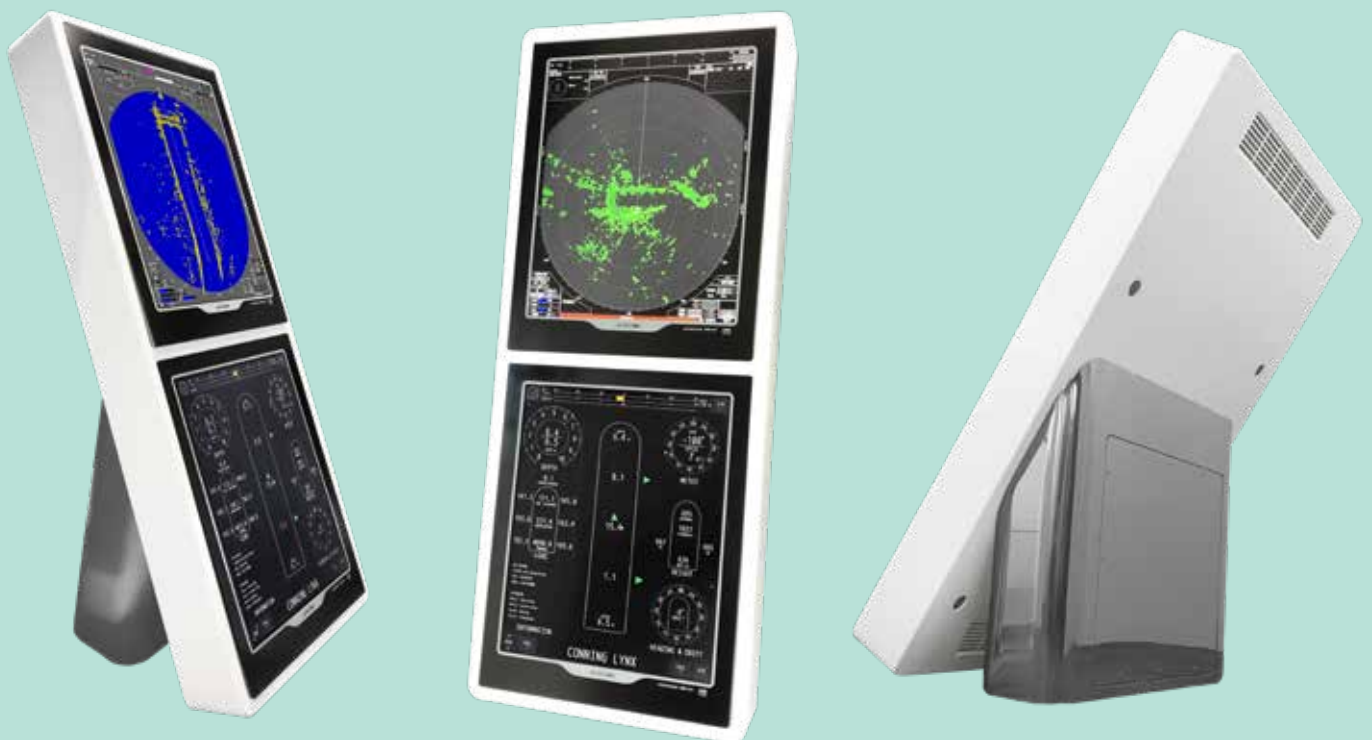
Or choose the modern and refreshing full-glass 19 inch LED monitor. The LED panel is for maximum performance optical bonded to the glass.





# AlphaBridge Inland |

The JMR-611 all-glass monitor can be used perfectly in a complete AlphaBridge Inland console. The completely flat front of the monitor fits seamlessly into the steel housing, creating a unique and modern look. This combination is available in different colors.

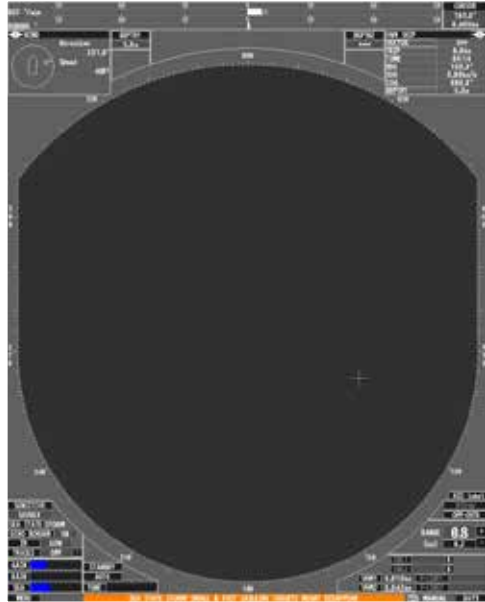


LED-panel, 2 x 19 inch



# User settings |

Multiple users can have different wishes in user setting. Personalise your preferred JMR-611 settings in your own user profile for easy switching. This option proves very useful as the JMR-611 offers a vast variety of different user settings.

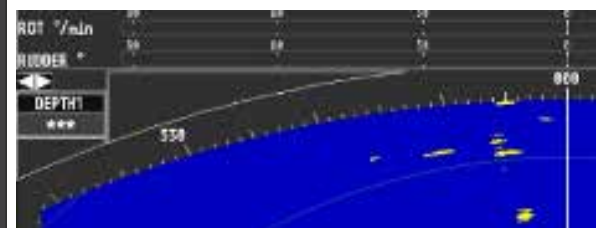


# Conning information |

If desired, it is possible to show conning information at the top of the screen for navigation purposes. This information can include: Docking, windmeter, echosounder (2x) and AIS. In combination with the Alphapilot MF the mode options FU mode or autopilot can be selected. Users who only wish to see radar information can switch off all additional functions.

# Enlarged radar image |

By efficient use of the available space on the 19 inch monitor, the maximum space is used for displaying the radar echoes. This can be increased even further by closing both conning windows at the top of the screen.



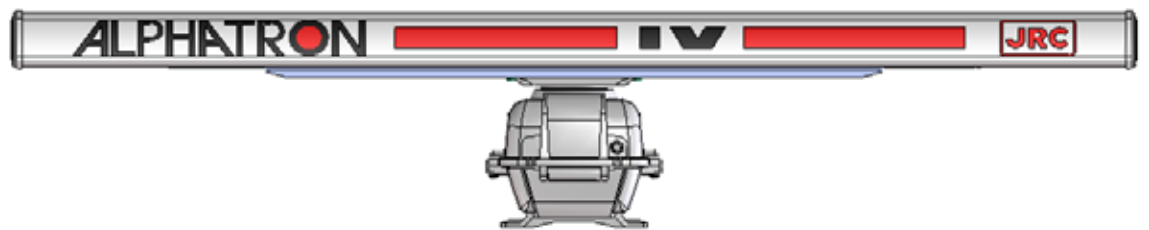


Scanner unit |

High speed |

Depending on the available space on board and the required performance, different scanner units are available in sizes 6, 7 or 9ft. All antennas have an aerodynamic design which is suitable for all weather conditions.

For fast-moving ships, the rotational speed of the antenna can be easily switched to high speed. This feature is only available for 6 and 7ft antennas.



# Radar cable |

Because a minimal number of wires are used between the scanner and the processor unit, the JMR-611 can be connected to almost all existing radar cable. This is a great advantage for many cases where replacing the radar cable is a huge challenge.

# Photoshot |

With pressing only a single button, the actual radar images and peripheral information such as turn indicator value, speed and AIS are recorded flawlessly on a CF card. This can easily be extracted via a computer for evaluation or evidence.



# Track line |

The JMR-611 radar can store its own track line. This stored track line can be displayed at a later time. A very useful function in combination with the AlphaRiverTrackPilot. This gives the user an additional means of checking to see if the ship is sailing in the best position.

# Radar overlay |

Because the radar is equipped with a network connection (LAN), a correct and stable operation is ensured guaranteed to display the radar image on a radar overlay system such as the RadarPilot720 and AlphaChartOverlay.



# Future proof |

With its aerodynamic antenna and modified motor, the JMR-611 is optimally prepared for the most extreme weather conditions that are increasingly occurring worldwide. With these features the radar is also prepared for even more strict requirements that may be applied in the future.

# Control panel |

The JMR-611 features a user-friendly control panel with easy access to the basic radar functions such as amplification, wave and rain suppressor. The integrated trackball provides access to the radar menu.



## In the box

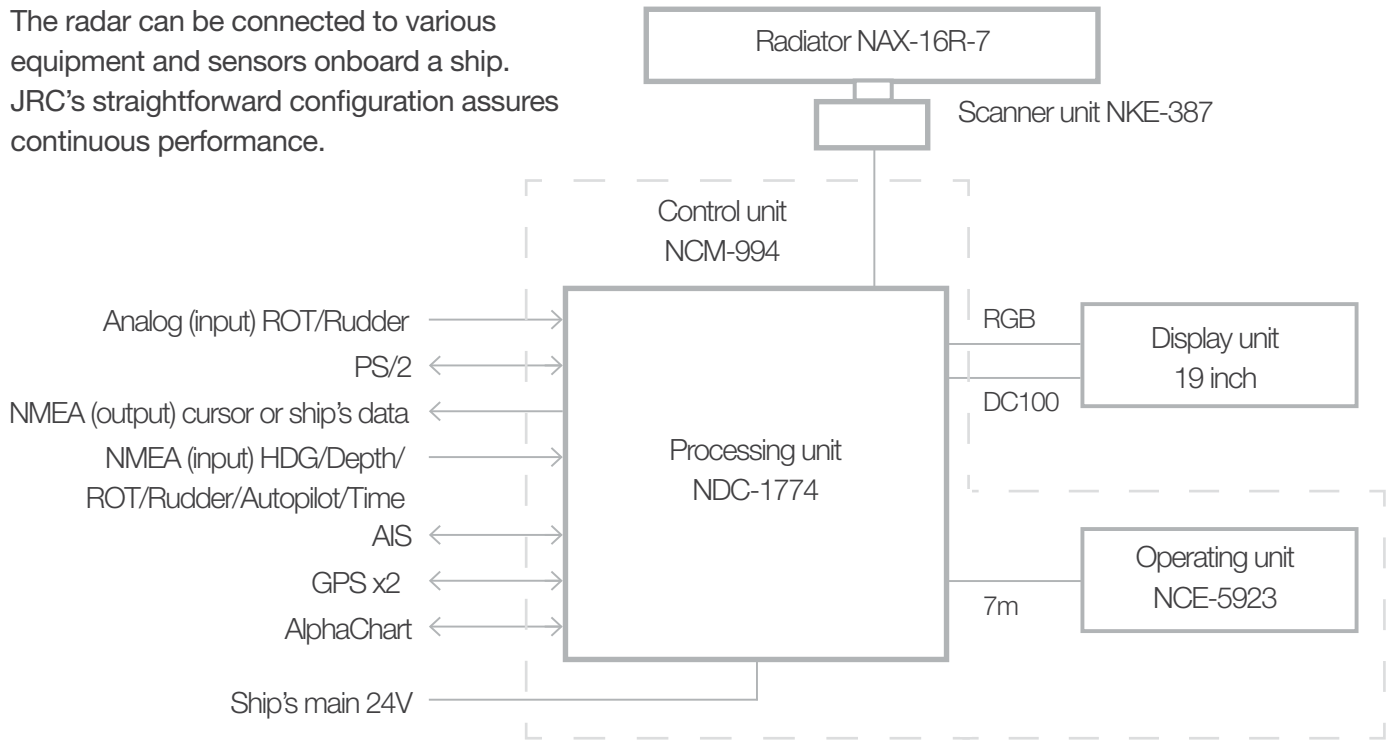
- Scanner unit NKE-387
- Array (standard is 7ft) NAX-16R-7
- Processor unit NDC-1774
- Control panel NCE-5923
- 19 inch LED monitor with aluminium housing JMR-611-AL
- User manual (EN/NL)
- Instruction form (EN/NL)
- CF-card and adapter

## Optional

- 6ft array NAX-16R-6
- 9ft array NAX-16R-9
- Radar cable G-003399
- Full glass monitor JMR-611-GL
- Monitor mounting bracket G-006351

# System diagram |

The radar can be connected to various equipment and sensors onboard a ship. JRC's straightforward configuration assures continuous performance.

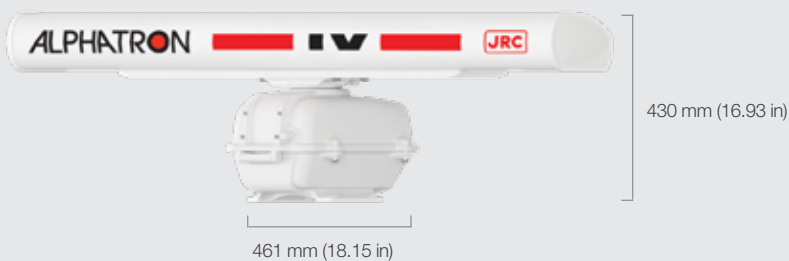


# Tech Specs |

7 ft | 24 rpm | 48 rpm HS

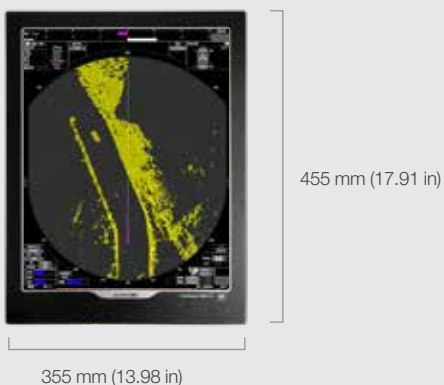
NKE-387-7ft Weight 34 kg (74.96 lbs)

Swing circle 2240 mm (88.19 in)



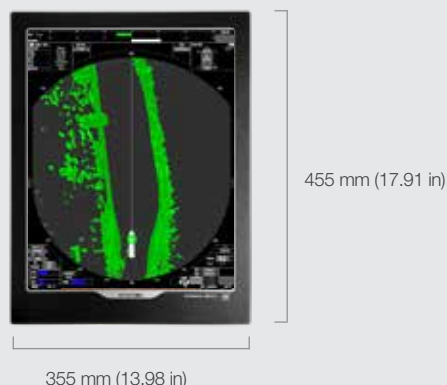
Monitor 19 inch

JMR-611-AL Weight 12 kg (26.46 lbs)



Full-glass monitor

JMR-611-GL Weight 12 kg (26.46 lbs)





# Specifications |

Scanner unit		NKE-387
Weight	Approx. 42 kg	
Beam width	Horizontal 1 degree (7ft) vertical 25 degree	
RPM	26/36/48 auto or manual only 6ft and 7ft	
Transmission output	4.9 kW	
Pulse width	0.05, 0.1, 0.3, 0.6us	
PRF	4000, 2000, 1000	
Receiver	Logarithmic, IF=60MHz	

Scannet unit		NAX-16R-6/7/9
Scanner size	7ft standard, 6ft and 9ft optional	

Monitor	
Diagonal	19 inch
Orientation	Portrait only
Pixels	1024x1280
Full glass monitor	Optional

Processor unit	
Weight	Approx. 21 kg
Power supply input	24VDC -10%/+30%
Power consumption	Approx. 400W

General	
Range scales	0.1, 0.2, 0.3, 0.4, 0.5, 0.8, 1.2, 1.6, 2, 4, 8, 16, 32km
Range resolution	Less than 15m
Minimum detective range	Less than 15m
Bearing resolution	+/- 1,5% or +/-5m
VRM	2 pieces
EBL	2 pieces
Cursor	Range, bearing and lat/long
Tune	Auto or manual
STC	Manual
FTC	Manual
Echoprocess	Constaview
IR	3 kinds
Bearing scale	360 degree at 1 degree interval
Heading marker	Yes
Stern marker	Yes (for ferry)

Control panel		NCE-5923
Weight	Approx. 1 kg	
2nd trackball	Optional	

Input signals	
GPS	NMEA
2nd GPS	NMEA
Rate of turn	Analog (20mV/deg isolated) or NMEA
Rudder feedback	Analog (20mV/deg isolated) or NMEA
Autopilot	Analog (20mV/deg isolated) or NMEA
Depth 2x	NMEA
Speed	NMEA
Course and heading	NMEA
AIS	Tx/Rx NMEA V3.X
Wind	NMEA

Output signals	
2nd monitor	SXGA, 15pSubD or DVI
Slave radar	Vd, Tr, BP, BZ, TuneInd

Approval	
Approval nr.	e-01-024

Parallel line	2 pieces, with readout
Off centre	5 steps from +40% to -60%
Trails length	10 different intervals
Expansion	off/strong/fair
Display color echo	16 levels, 4 colors
Display color background	4 colors inside/outside
Display color trail	16 levels, 4 colors
Own mark	Yes
Own ship vector	2 curved pieces
Time	Local or UTC
Trip counter	From GPS (ground distance)
Screenshot	Internal or CF-Card
Echo border	On/off, expansion dependent
Sea state	Only with GPS-compass connected with correct output



ALPHATRON  
Marine



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