CYCLONE

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SOLID STATE OPEN ARRAY RADAR

The ultimate expression of design, rugged performance, and unmatched situational awareness, Cyclone solid-state openarray radars give mariners the confidence to tackle the harshest conditions, gain the upper hand in the hunt for fish, and navigate busy waterways with confidence. Cyclone radars are available with a 3, 4 or 6-foot antenna array and two high-power output options.

Cyclone radars deliver superior target separation and long-range resolution using CHIRP pulse compression and Raymarine beam sharpening technology. Each model features innovative detection capabilities, including Cyclone Bird Mode, RangeFusion™ technology and high speed 60 rpm imaging.

CUTTING EDGE DESIGN

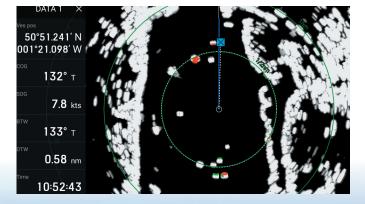
- Aircraft-wing-inspired design is engineered for extremes with best-in-class 100-knot wind rating and designed to meet the commercial grade IEC 62388 standard for ship borne radar
- At 13.1 inches (335 mm) tall, Cyclone's lower profile allows greater flexibility of boat architecture and more adaptable installation options.
- Innovative pedestal design conceals cable connections for a cleaner installation



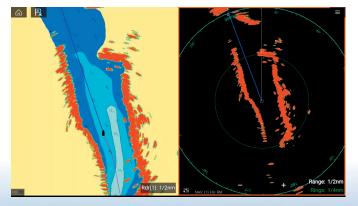


THE ULTIMATE SITUATIONAL AWARENESS

- Fast 60 RPM rotational speed delivers 360 degrees of awareness and accurate target tracks in real-time
- Doppler target tracking simplifies the interpretation of dangerous and safe targets for added safety.
- Professional grade ARPA target tracking. Cyclone automatically tracks up to 50 targets using the same advanced ARPA technology trusted by the United States Coast Guard.



Doppler Target Tracking



Precise shore line detail and long range target separation

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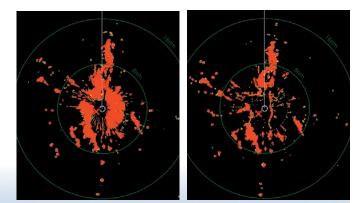
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 RangeFusion[™] technology combines short and long pulses into the single high clarity radar image, delivering exceptional short-range and long-range targets simultaneously.

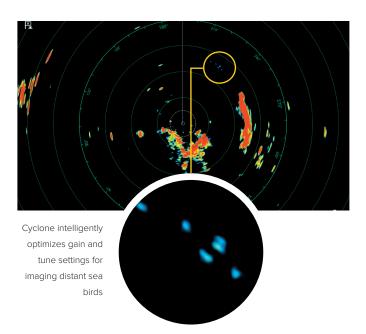
FISHING INTELLIGENCE

- Performance tuned for locating sea birds
- Enhanced Cyclone Bird Mode using CHIRP pulse compression technology



RangeFusion combines short and long pulses into single image





3, 4 AND 6- FOOT OPEN ARRAY SIZES

- 4 and 6 foot options deliver superior target separation and range detection
- 3 foot array provides open array performance in tight spaces







6ft Option

CYCLONE MODEL LINE UP

Choose between 2 available high-power output options. Both offer excellent long range target detection and all-weather performance.



Maximum <		CYCLONE 55 Watt (6kW Magnetron ed	quivalent)	110 Watt (1	CYCLONE PRO 12 kW Magnetron equivalent)	
Nover consumption (max) 170 W 195 W Nover consumption (standby) 28 W 28 W Aaximum range scale 72 Nm 96 Nm Abot up time 40 seconds 5 seconds Aaximum range scale 72 Nm 96 Nm Abot up time 40 seconds 5 seconds Aaximum fange scale 72 Nm 96 Nm Abot up time 40 seconds 5 seconds Materpoor fating	Supply voltage (Using VCM100)					
twower consumption (standby) 28 W 28 W taximum range scale 72 Nm 96 Nm ioot up time 40 seconds 96 Nm taxindum range scale 72 Nm 96 Nm ioot up time 40 seconds Less than 5 seconds taxing temperature range .25°C to +55°C (13°F to 13°F)	Power consumption (typical)	70 W		95 W		
Aaximum rage scale 72 Nm 96 Nm toot up time 40 seconds 40 seconds tandby to transmit Less than 5 seconds 5 Vaterproof rating IPX6 5 Operating temperature range -25°C to +55°C (13°F to 13°F) 100 Kts Maximum wind speed Up to 93% at 40°C (104°F) 40 Maximum wind speed 100 Kts 5 Yower connection 100 Kts 5 Yower connector 100 Kts 100 Kts Yower connector 100 Kts 100 Kts Yower connector 100 Kts 100 Kts Yower connector 100 Kts 100 Wt Yower connector 110 W 100 Wt Yower connector 110 W 100 Wt Yower connector 110 W 110 W Yower connector 110 W 110 W <th>Power consumption (max)</th> <th colspan="2">170 W</th> <th colspan="2">195 W</th>	Power consumption (max)	170 W		195 W		
Jose up time 40 seconds tandby to transmit Less than 5 seconds Vaterproof rating IPX6 Operating temperature range -25°C to +55°C (+13°F to 13°F) tumidity Up to 93% at 40°C (104°F) dakinum wind speed 100 Kts forwer connection 100 Kts brate connection 100 Kts brate connection 100 V brate connector 100 V brate connector 110 W brate connector 110 W bracewer output 55 W 100 W bracewer output 55 W 10 W bracewer output 55 M 10 W bracewer output 10 W 10 W bracewer output 10 Kts 10 W <	Power consumption (standby)	28 W		28 W		
Mandby to transmit Less than 5 seconds Vaterproof rating IPX6 Operating temperature range -25°C to 455°C (13°F to 13°F) Tunnidity Up to 93% at 40°C (104°F) taximum wind speed IV 00 kts ower connection 100 kts taximum wind speed IV Power connector taximum wind speed IV Power connector IV Power connector taximum conspansion IV Power connector IV Power connector taximum conspansion IV Power	Maximum range scale	72 Nm		96 Nm		
Vareproof rating IPX6 Operating temperature range -25°C to +55°C (+13°F to 13°F) tunidity Up to 93% at 40°C (104°F) faximum wind speed 100 Kts forwer connection 100 Kts ower connection 100 Kts faximum vind speed 100 Kts ower connection 1x RayNet connector faximum vind speed 1x RayNet connector faximum vind speed 100 Kts ower connection 1x RayNet connector faximum vind speed 100 Kts ower connector 100 Kts faximum vind speed 100 Kts ower connector 1x RayNet connector faximum vind speed 100 Kts faximum vind speed 110 W faximum vind speed 110 W feedever noise Linear feedever noise Less than 5 dB thysical (Pedestal) 188 mm x 360 mm x 335 mm /15.27 in x 14.17 in x 13.18 in (to the top of the antenna) Veight 16 Kg Antenna 3ft 4ft 6ft Gaenwidth (vertical)	Boot up time	40 seconds				
Control Control Operating temperature range -25°C to +55°C (+3°F to 13°F) fumidity Up to 93% at 40°C (04°F) Aaximum wind speed 100 Kts fower connection 100 Kts fower connector 100 Kts factor connector 110 W f	Standby to transmit	Less than 5 seconds				
Immidify Up to 93% at 40°C (104°F) Maximum wind speed Up to 93% at 40°C (104°F) Maximum wind speed 100 Kts Yower connection 1x Power connector Value Statum connector Value Statum connector Transmitter frequency 9370, 9400, 9430 MHz (User Selectable) Teach power output 55 W 110 W Teach power output 55 W 100 W Teach power output Tens Tens Material 388 mm x 360 mm x 335 mm / 15.27 in x 14.17 in x 13.18 in (to the top of the antenna) Veight 16 Kg 16 Kg Antenna 3ft 4ft 6ft Beamwidth (vertical) 2.83 1.99° 1.32° Polarization Hor	Waterproof rating	IPX6				
Aximum wind speed 100 Kts Jower connection 1x Power connector Ata connection 1x RayNet connector Ata connection 10 W Ate connection 10 W Ate connection 10 W Ate connection Linear Ate connections Less than 5 dB Athenna 388 mm x 360 mm x 335 mm / 15.27 in x 14.17 in x 13.18 in (to the top of the antenna) Ate connection 16 Kg Athenna 3ft 4ft Beamwidth (vertical) 2.5° 2.5° Beamwidth (vertical) 2.83 1.9° 1.32° <th>Operating temperature range</th> <th colspan="4">-25°C to +55°C (-13°F to 131°F)</th>	Operating temperature range	-25°C to +55°C (-13°F to 131°F)				
Nower connection 1k Power connector Data connection 1k RayNet connector Transmitter frequency 370, 9400, 9430 Hz (User Selectable) Teack power output 55 W 110 W Seek power output 55 W 110 W Seekever characteristic Linear 110 W Seekever noise Clinear 110 W Seekever noise State on setting 110 W Seekever noise State on setting State on setting Seekever noise State on setting State on setting State on setting Seeke on setting Stat	Humidity	Up to 93% at 40°C (104°F)				
Abata connection 1x RayNet connector Yeak connection 1x RayNet connector ransmitter frequency 9370, 9400, 9430 MHz (User Selectable) reak power output 55 W 110 W reak power output 55 W 110 W reak power output Clinear Less than 5 dB reak power output Clinear Less than 5 dB reak power output State on and state on	Maximum wind speed	100 Kts				
International frequency Marked international frequency Preak power output Clinear Receiver noise Linear Preside (Pedestal) Clinear Preside (Pedestal) Clinear Preside (Pedestal) State of the antenna) Markenna Markenna 388 mm x 360 mm x 335 mm / 15.27 in x 1417 in x 13.18 in (to the top of the antenna) Veight Clinear Antenna Afternational frequency State of the antenna) Readom of the frequency State of the antenna) Beamwidth (horizontal) Afternational Afternational State of the frequency Preside (Antenna) 1031 mm / 40.59 in 1032 mm / 76.57 in	Power connection	1x Power connector				
Yeek power output 55 W 110 W Receiver characteristic Linear Receiver noise Less than 5 dB Physical (Pedestal) Less than 5 dB Physical (Pedestal) 388 mm x 360 mm x 335 mm / 15.27 in x 14.17 in x 13.18 in (to the top of the antenna) Veight 16 Kg Antenna 3ft 4ft 6ft Beamwidth (vertical) 25° 25° 25° Polarization 13.28° 199° 1.32° Physical (Antenna) 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Data connection	1x RayNet connector				
Interview Linear Linear Linear Less than 5 dB Less than 5 dB Physical (Pedestal) Less than 5 dB Physical (Pedestal) 388 mm x 360 mm x 335 mm / 15.27 in x 1417 in x 13.18 in (to the top of the antenna) Veight 16 Kg Antenna 3ft 4ft 6ft Beamwidth (vertical) 2.83 1.99° 1.32° Polarization Horizontal 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Transmitter frequency	9370, 9400, 9430 MHz (User Selectable)				
Internal State	Peak power output	55 W		110 W		
Physical (Pedestal) 388 mm x 360 mm x 335 mm / 15.27 in x 14.17 in x 13.18 in (to the top of the antenna) Veight 16 Kg Antenna 3ft 4ft 6ft Beamwidth (vertical) 25° 25° 25° Beamwidth (norizontal) 2.83 1.99° 1.32° Polarization Horizontal Horizontal Rotation speed 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Receiver characteristic	Linear				
Dimensions 388 mm x 360 mm x 335 mm / 15.27 in x 14.17 in x 13.18 in (to the top of the antenna) Veight 16 Kg Antenna 3ft 4ft 6ft Beamwidth (vertical) 25° 25° 25° Beamwidth (horizontal) 2.83 1.99° 1.32° Polarization Horizontal 1.32° Polarization speed 12, 24, 36, 48, 60 rpm 1945 mm / 76.57 in	Receiver noise	Less than 5 dB				
Veight 16 Kg Antenna 3ft 4ft 6ft Beamwidth (vertical) 25° 25° 25° Beamwidth (horizontal) 2.83 1.99° 1.32° Polarization Horizontal 12, 24, 36, 48, 60 rpm Physical (Antenna) 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Physical (Pedestal)					
Antenna 3ft 4ft 6ft Beamwidth (vertical) 25° 25° 25° Beamwidth (horizontal) 2.83 1.99° 1.32° Polarization Horizontal 1.32° Rotation speed 12, 24, 36, 48, 60 rpm 1945 mm / 76.57 in	Dimensions	388 mm x 360 mm x 335 mm / 15.27 in x 14.17 in x 13.18 in (to the top of the antenna)				
Beamwidth (vertical) 25° 25° 25° Beamwidth (horizontal) 2.83 1.99° 1.32° Polarization Horizontal Rotation speed 2.24, 36, 48, 60 rpm Physical (Antenna) 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Weight	16 Kg				
Beamwidth (horizontal) 2.83 1.99° 1.32° Polarization Horizontal Horizontal Rotation speed 12, 24, 36, 48, 60 rpm Physical (Antenna) 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Antenna	3ft	41	ft	6ft	
Polarization Horizontal Rotation speed 12, 24, 36, 48, 60 rpm Physical (Antenna) 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Beamwidth (vertical)	25°	25	5°	25°	
Actation speed 12, 24, 36, 48, 60 rpm Physical (Antenna) 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Beamwidth (horizontal)	2.83	1.9	9°	1.32°	
Physical (Antenna) ength 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Polarization	Horizontal				
Length 1031 mm / 40.59 in 1336 mm / 52.59 in 1945 mm / 76.57 in	Rotation speed	12, 24, 36, 48, 60 rpm				
	Physical (Antenna)					
Weight 7 Kg / 15.4 lb 9 Kg / 19.84 lb 12 Kg / 26.45 lb	Length	1031 mm / 40.59 in	1336 mm /	/ 52.59 in	1945 mm / 76.57 in	
	Weight	7 Kg / 15.4 lb	9 Kg / 1	19.84 lb	12 Kg / 26.45 lb	



For further information including full product specifications, scan the QR code or go to our website www.raymarine.com

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