









Fully Automatic Working Radar Auxiliary Collision Avoidance Radar

HLD-RADAR 900/900C





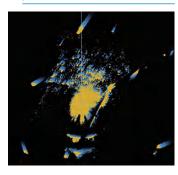
[Automatic Tune]

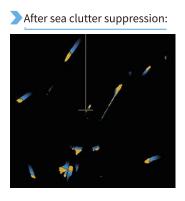
Dynamic Automatic Tuning ensures that the radar functions at its optimal level in target detections.

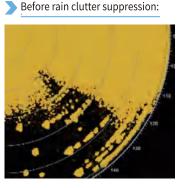
[Automatic Clutter Suppression]

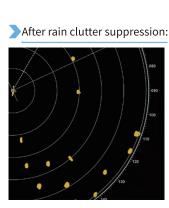
Automatic Sea & Rain Clutter Suppression allows the radar performance to automatically adapt to different sea states, vessel types and installation limitations.

Before sea clutter suppression:









[Automatic Target Acquisition]

Radar targets are automatically acquired when ever they are within the defined zone. Up to 10,000 targets are automatically tracked.

[Automatic Collision Avoidance Alarm]

Collision Avoidance Alarm is automatically triggered whenever dangerous targets are detected via preset collision avoidance CPA/TCPA parameters.

[Automatically assist in collision avoidance decision-making suggestions]

The automatic assisted collision avoidance system uses the static and dynamic data of the local ship and the target ship provided by the magnetron radar, combined with the continuous calculation of the collision avoidance algorithm, to provide reasonable collision avoidance suggestions for the crew. Crews can quickly evaluate and take corresponding actions based on algorithm suggestions to improve decision-making efficiency and navigation safety.

Target Fusion

Target Fusion prevents confusion of radar targets and AIS targets while optimizing radar display.



[Menu Language]

Selectable between English & Chinese.



[Multiple AIS Information Displays]





[AIS Target correlated with Radar Target]

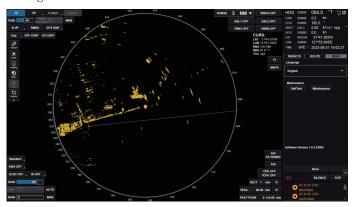


[Radar Target correlated with AIS Target]



[Multi-Function Display]

Multi-function workstation providing selection of many modes: ARPA Radar, Chart Radar, ECDIS, Conning Display of Alert Management.

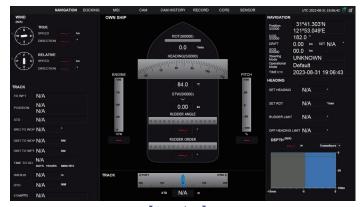


[Radar]



[ECDIS]

[Chart Radar]



[Conning]

[HLD-RADAR 900 Series Configuration]

(X-BAND)

De-icing device

(A-DAND)	
Antenna	HLD-AT104/106/108
Transceiver Unit	HLD-TU110/125
Display unit	HLD-DU162/163/164/165
	HLD-DU133/134/135/138
Human Interface Unit	HLD-IU600
Main Control Unit	HLD-MCU770
Power Conversion Unit	HLD-PCU600
Optional	
ECDIS key	HLD-LIC900
Console	
Tabletop stand	

(S-BAND)

Tabletop stand

De-icing device

Antenna	HLD-AI112
Transceiver Unit	HLD-TU130
Display unit	HLD-DU162/163/164/165
	HLD-DU133/134/135/138
Human Interface Unit	HLD-IU600
Main Control Unit	HLD-MCU770
Power Conversion Unit	HLD-PCU600
Optional	
ECDIS key	HLD-LIC900
Console	



[Dimensional Drawing]





[Power Unit HLD-PCU600 4kg]

[Human-machine Interaction Unit HLD-IU600 3kg]



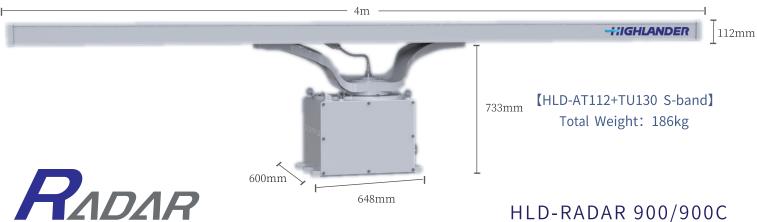
【Display Unit24" HLD-DU134 11kg】



[Main Control Unit HLD-MCU770 6kg]

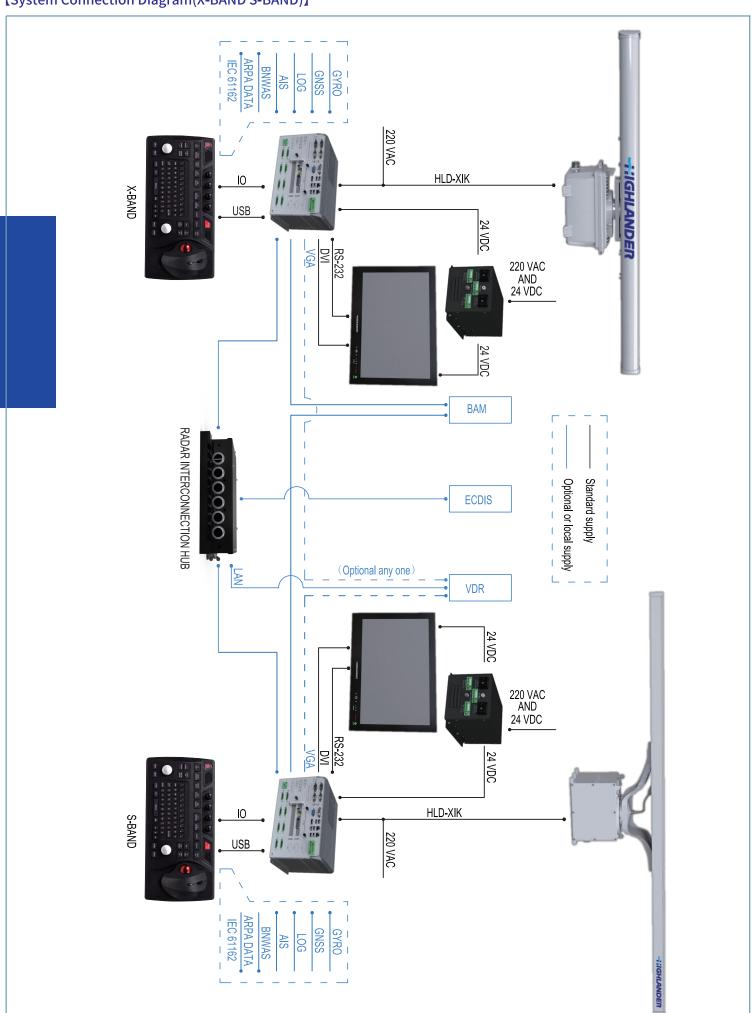
Name	Specification	Length (mm)	Height (mm)	Depth (mm)	Weight (kg)	Specification	Length (mm)	Height (mm)	Depth (mm)	Weight (kg)
Display Unit19"	HLD-DU162	429	382	69	7	HLD-DU133	429	382	75	8
Display Unit24"	HLD-DU163	605	397	69	10	HLD-DU134	593	384	70	11
Display Unit26"	HLD-DU164	621	435	91	16	HLD-DU135	621	435	99	17
Display Unit27"	HLD-DU165	650	420	70	11	HLD-DU138	650	420	70	11







[System Connection Diagram(X-BAND S-BAND)]





[Technical Specifications]

Frequency Band			S-Band				
		HLD-AT104	HLD-AT106	HLD-AT108	HLD-AT112		
Antenna Length		4ft	6ft	8ft	12ft		
Peak Transmission Power		10kw/25kw			30kw		
Beam Width	Horizontal	2.0°	1.3°	1.0°	2.0°		
	Vertical	24°			27°		
Operating Frequency			3050±15MHz				
Antenna Rotational Speed			24rpm/40rpm				
	Short	0.05μs/1800Hz or 3000Hz					
Pulse Width &	Medium	0.25μs/1800Hz					
Reptition Frequency	Long	0.75μs/785Hz					
	Ultra long	1.2μs/500Hz					
Intermediate Frequency		60MHz					
Performance Monitor		System standard part					
	Sea	Manual/Automatic					
Anti Clutter	Rain	Manual/Automatic					
Gain Control		Manual					
Display Resolution (19"/ 24 "/ 26"/ 27")		1280*1024 1920*1080 1920*1200 1920*1080					
DisplayMode	Motion	TM, RM					
Display Mode	Heading	H Up,N Up,C Up,T Up					
Display Range		0.125-96nm					
ARPA Targets		Up to 100					
Auto Acquisition of Targets		Provided, 2x Automatic Acquisition zone					
AIS Targets		Up to 100					
Association of AIS-ARPA Targets		Provided					
Trail Manoeuvre		Provided					
Chart Radar		Optional					



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