

Janus D+FCS

Janus D+FCS (Digital + Fire Control System), is a compact, rugged and sealed Electro-Optic system, designed to cover both Surveillance and FCS director needs.

This system is among the best naval solution for E/O surveillance and short-to-medium range defence, especially against asymmetric threats, in complex maritime environments and in all weather conditions.

Janus D+FCS can show panoramic view with 360° azimuth rotation, automatically track fast air/surface target with high level of accuracy, thanks to top acceleration and rotation speed.

Janus D+FCS is dual axis gyro-stabilized sight that hosts last generation IR sensors, Laser Range Finder and HD TV technologies, for the night/day vision and target distance measurement.

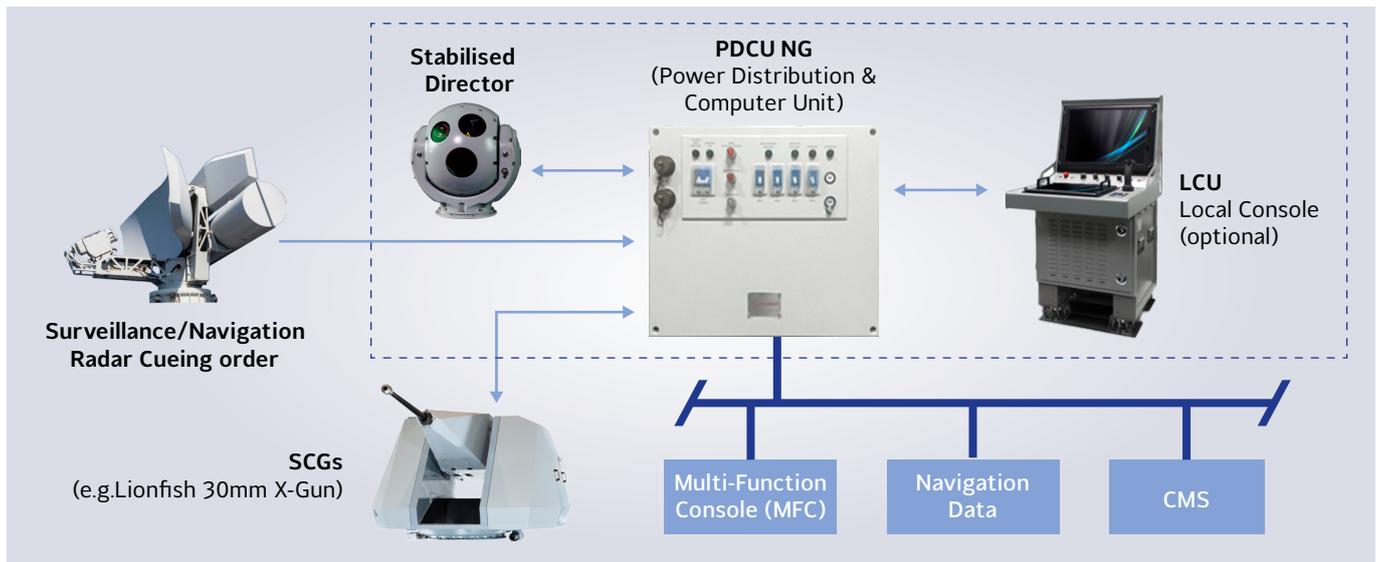
Janus D+FCS can be easily interfaced with an external equipment or CMS, thanks to its standard interfaces.

APPLICATIONS

- Fire Control Director for Weapons
- Naval Situational Awareness
- Day and Night Surveillance
- Search and Rescue

KEY FEATURES

- 360° Automatic Target Tracking
- UAS/USV/Air-Surface fast target tracking
- 3rd Generation MWIR Thermal Imager
- ITAR FREE



TECHNICAL SPECIFICATIONS

PSUs	Elevation Range:	-20° + 70°
	Azimuth Range:	360°
	Stabilisation Accuracy AZ/EL:	< 0,1 mrad
	Rotation/Elevation Speed:	2.5 rad/s / 2.0 rad/s
	Maximum Acceleration:	4 rad/s ²
INFRARED CAMERA	Detector:	CMT 640X512 px
	Bandwidth:	3-5 μm (MWIR)
	Optical zoom (10X):	2.4° to 24°
	Digital zoom:	Continuous
DAY HDTV	Digital Video Processing:	GLACE (*)
	Optical zoom:	Continuous 1.7° to 40°
	Digital zoom:	Continuous up to 12x
LASER RANGE FINDER	Detector:	1920 X 1080 px
	Eyesafe:	1.54 μm (Class 1/1M)
	Range:	up to 30.000m
	Pulse rate:	1, 4, 10, 20 Hz Continuous
USER INTERFACE	Precision:	0,01-0,5m
	Video:	HD-SDI, Gbit Ethernet
	Controls:	RS/232/422, Ethernet
SYSTEM ADVANCED PROCESSING	Operating Voltage:	28VDC (MIL STD 1275 B)
	Picture-in-Picture (mixing Day TV and IR Camera Images)	
	Automatic Video Tracker optimized for surface target and UAS	
	Image Enhancement (Edge, Glace, De-Hazing, De-Fog)	
Advanced Built-in Test Equipment		
Auto Calibration and functional testing at start-up		

* Glace™ is a digital processing suite that operates on raw, uncompressed detector data. It locally analyses images to optimise contrast and brightness levels in each area while avoiding saturation, restoring the missing details that are usually lost during video compression.

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