



**CURRENT**

THE SCIENCE OF SEEING





# TURN NIGHT INTO DAY

## > ENHANCED SECURITY & SAFETY

CURRENT's Night Navigator series are high performance systems with excellent image quality that are built for long-range recognition of objects, obstacles, and threats. They enable early decision making and preparedness resulting in increased safety and security.

### NN HSC

Night Vision certified to IMO HSC code, Resolution MSC.94(72).

### NN 2000

The solution for all budgets for secure navigation in an ultracompact platform.

### NN 3000

Mid-range obstacle recognition for all land operations.

### NN 4000

Long-range recognition with option of enhanced awareness and active protection.

### NN 8000

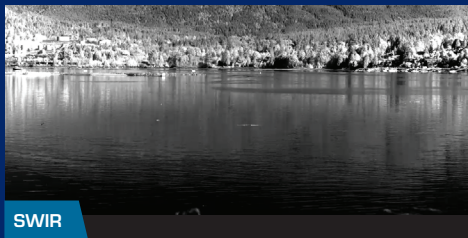
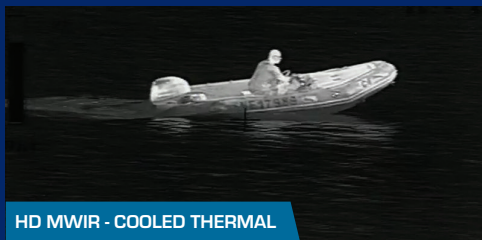
Extreme long-range recognition for intelligence and surveillance.

### NN PTZ - 360°

360° real-time infrared panoramic situational awareness platform combined with a PTZ for object verification.



## FULL-SPECTRUM OPTICAL INFRARED CAMERA SYSTEMS



# 360° REAL TIME AWARENESS

## > PANORAMIC HD IR SYSTEMS

Experience an unprecedented level of situational awareness with our cutting-edge system that integrates a panoramic array of high-definition thermal sensors with a gyro-stabilized PTZ EO/IR system.

This dynamic combination provides users with long-range object and threat verification capabilities without compromising 360° situational awareness. Tailored to meet diverse needs, our system is available in multiple configurations, ensuring flexibility for operators who demand and appreciate more information to enhance human decision-making.



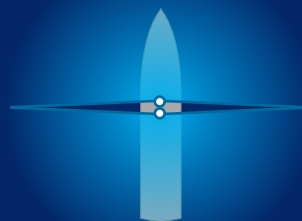
## INSTALLATION CONFIGURATIONS



Single 360° system requires top position on the mast to provide an unobstructed 360° view.



Single 225° system when the top position on the mast is unavailable and the area of interest is only forward.



Two 180° systems mounted forward and aft, providing 360° coverage when a single 360° unobstructed view is not possible.



Two 180° systems mounted port and starboard, providing 360° coverage when a single 360° unobstructed view is not possible.

# SENSOR CONFIGURATIONS

INFRARED CAMERA (IR)									DAY CAMERA		AVAILABLE SENSORS & FUNCTIONALITIES					
Thermal Imager	HD IR	Field of View IR	Lens f/#	Optical Zoom	Digital Zoom	Human*	NATO**	HD Day Camera	Long Range Day	Zoom Ratio	Video Tracking	LRF	Laser Dazzler	Night Vision	SWIR	
NN 2000 SERIES																
2005	LWIR		24.8°	f/1.2		4x	.70 km	1.7 km	✓		30x	•				
2015	LWIR		18°	f/1.2		4x	1 km	2.4 km	✓		30x	•				
2017	LWIR		12.4°	f/1.2		4x	1.4 km	3.4 km	✓		30x	•				
2025	LWIR		43.4° to 8.2°	f/1.2	5x	4x	2.1 km	5.1 km	✓		30x	•				
2030	LWIR	✓	27.8°	f/1.4		4x	1 km	2.4 km	✓		30x	•				
2032	LWIR	✓	19.8°	f/1.2		4x	1.4km	3.4 km	✓		30x	•				
NN 3000 SERIES																
3025	LWIR		25.4° – 5.9°	f/1.6	4x	4x	2.9 km	7.1 km	✓		30x	•				
3026	LWIR		43.3° – 8.2°	f/1.2	5x	4x	2.1 km	5.1 km	✓		30x	•				
3040	LWIR	✓	68.4° – 9.9°	f/1.4	6x	4x	2.8 km	6.8 km	✓		30x	•				
3050	MWIR		28° – 2°	f/5.5	14x	4x	5.8 km	14.1 km	✓		30x	✓				
3055	MWIR		32.4° – 1.8°	f/5.5	18x	4x	6.3 km	15.3 km	✓		30x	✓	•			
3057	MWIR		32.4° – 1.8°	f/5.5	18x	4x	6.3 km	15.3 km	✓		30x	✓	✓			
NN 4000 SERIES																
4030	LWIR		25.3° – 4.1°	f/1.4	6x	4x	4.2 km	10.1 km	✓		30x	•		•	•	
4040	LWIR	✓	41° – 6.6°	f/1.4	6x	4x	4.2 km	10.1 km	✓		30x	•		•	•	
4065	MWIR		35.4° – 1.8°	f/4	20x	4x	6.3 km	15.3 km	✓		30x	✓	•	•	•	
4085	MWIR	✓	46.2° – 2.4°	f/4	20x	4x	9.5 km	>20 km	✓		30x	✓	•	•	•	
4465	MWIR		35.4° – 1.8°	f/4	20x	4x	6.3 km	15.3 km	✓		30x	✓	✓	✓	•	
4485	MWIR	✓	46.2° – 2.4°	f/4	20x	4x	9.5 km	>20 km	✓		30x	✓	✓	✓	•	
NN 8000 SERIES																
8040	LWIR	✓	41° – 4.4°	f/1.5	9x	4x	6.3 km	15.2 km	✓		30x	•			•	
8065	MWIR		16.5° – 0.9°	f/4	17x	4x	12.6 km	>20 km	✓	✓	40x	✓	•		•	
8085	MWIR	✓	14.5° – 1.2°	f/4	12x	4x	19.0 km	>20 km	✓	✓	40x	✓	•		•	
8465	MWIR		16.5° – 0.9°	f/4	17x	4x	12.6 km	>20 km	✓		30x	✓	✓	✓		
8485	MWIR	✓	14.5° – 1.2°	f/4	12x	4x	19.0 km	>20 km	✓		30x	✓	✓	✓		

**II NIGHT VISION** = Image Intensified Night Vision

**LWIR** = Long-Wave InfraRed (Uncooled thermal imaging 8-14µm)

**MWIR** = Mid-Wave InfraRed (Cooled thermal imaging 3-5µm)

**SWIR** = Short-Wave InfraRed

**LRF** = Laser Range Finder

✓ = Standard feature • = Optional feature

Other Configurations Available.

Specifications subject to change without notice.

Theoretical detection calculations based on "Johnson Criteria" to achieve a 50% probability for an observer to detect an object, not taking into consideration signal level, detector sensitivity, atmospheric conditions, and other factors. Two pixels on target for LWIR and three for MWIR.

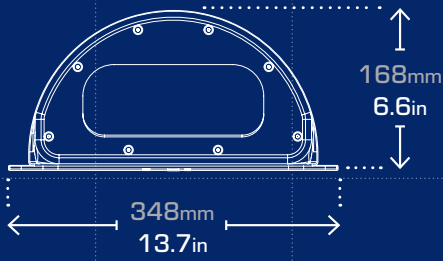
\*Human target (1.8m x 0.5m) \*\*NATO target (2.3m x 2.3m)



# DIMENSIONS

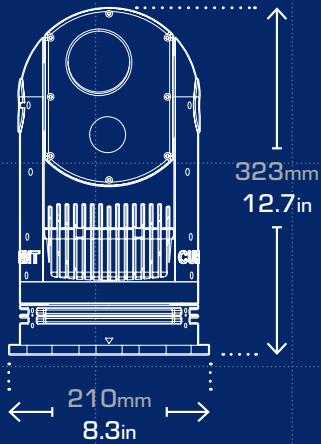
## NN HSC

<5.2kg  
<11.5lbs



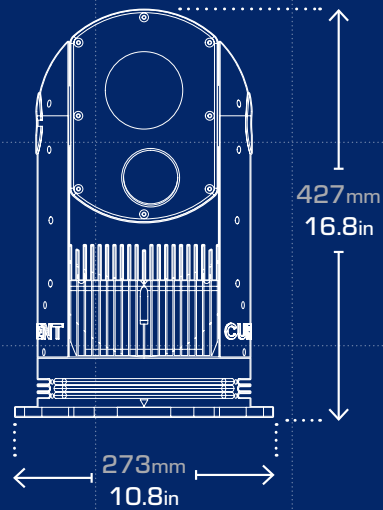
## NN 2000

<10kg  
<22lbs



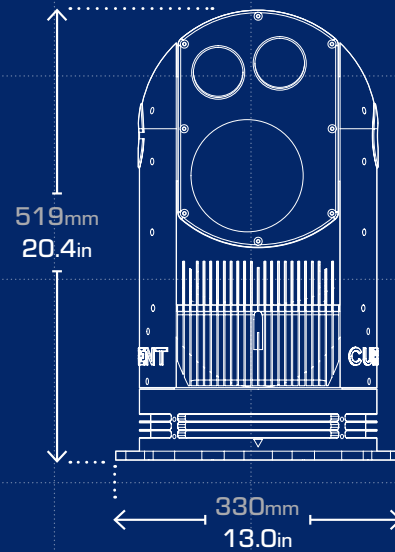
## NN 3000

16-20kg  
35-44lbs



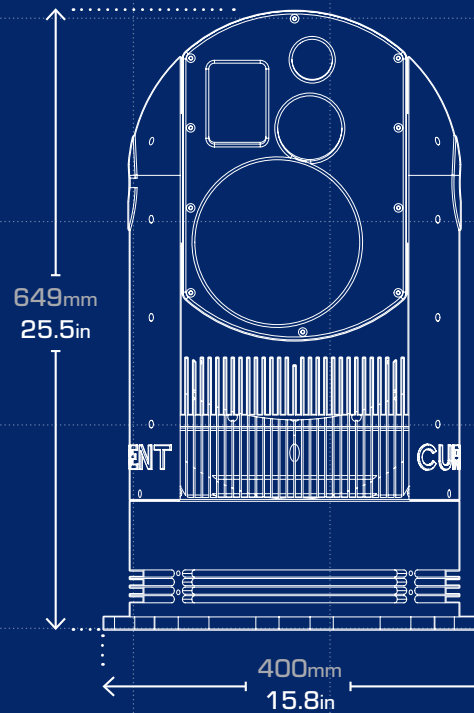
## NN 4000

27-32kg  
60-70lbs



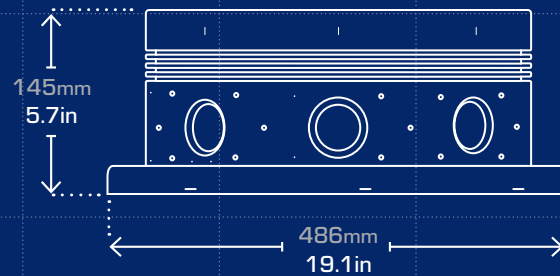
## NN 8000

55-65kg  
120-145lbs



## NN 360°

15kg  
33lbs



Exact weight depends on sensor specification.



# FEATURES

## > SENSORS AND CONFIGURATIONS



### COOLED THERMAL IMAGING LONG-RANGE SECURITY

**Mid-Wave InfraRed (MWIR)**, or Cooled Thermal Imaging, offers continuous optical zoom with a narrow field of view for long range detection, recognition and identification. **HD MWIR** offers 2.8x the resolution of SD MWIR for improved image quality and detection, recognition, and identification capabilities.



### UNCOOLED THERMAL IMAGING MID-RANGE SECURITY

**Long-Wave InfraRed (LWIR)**, or Uncooled Thermal Imaging, offers mid-range observation and is used in missions requiring 24/7 use. Offering various levels of optical zoom, these systems are an economical solution for a broad range of uses. **HD LWIR** is now available to further enhance performance and capabilities with 2.5x better resolution.



### LONG RANGE HD DAY

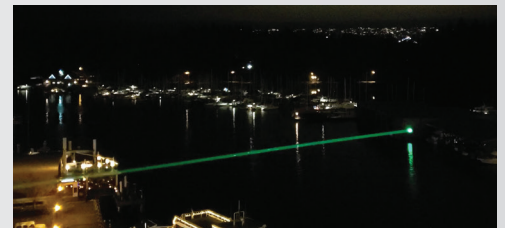
High-definition with up to 40x optical zoom and best-in-class low-light sensitivity makes this the perfect companion for the thermal imager.

**4K option** increases the resolution by 4x to provide sharper image quality.



### LRF

Laser Rangefinder (LRF) measures the distance to an obstacle or threat tracked by the camera.



### LASER DAZZLER

The laser dazzler is a non-lethal deterrent that can be used as an escalation of force to increase security and safety on board.

## FEATURES



### ENVIRONMENTAL SEALING

Water Ingress  
Protection (IP) 67.



### H.264 RTSP VIDEO STREAM

Network-enabled video  
from two sensors  
simultaneously.



### OPERATIONAL TEMPERATURE

-20°C to 50°C  
(option to -40°C).



### MOTION RANGE

360° continuous pan  
and +/-90° tilt.



### STABILIZATION

2 axis gyro-stabilization  
and video stabilization.



# SEEING MORE, YOUR WAY

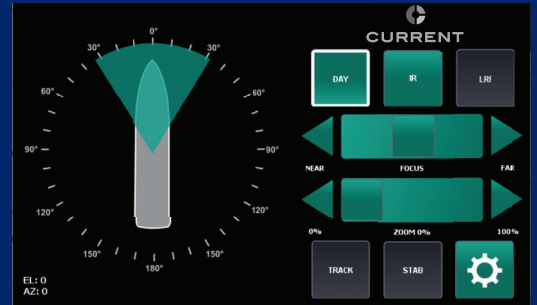
## > INTEGRATION OPTIONS & ACCESSORIES

Flexible IP network control solutions for onboard, remote, and autonomous operation.



## VIDEO UI

Live video feed with full control of all system functions on one interface. Optimized for operation on a touchscreen with USB joystick/RRG or standard PC with trackball/mouse. Can be run on a CURRENT or customer-supplied PC or Panel PC.



## CONTROL UI

Provided on an 8" Panel PC touchscreen, it can be operated standalone or with USB joystick/RRG for more precise pan and tilt positioning. Main screen provides basic control functions with menus for advanced functions. Requires a separate display for video.



## COMPACT CONTROLLER

Compact solution with integrated 2-button joystick. Provides basic functions through buttons and more advanced functions through on-screen menus. Requires a separate display for video.

## ACCESSORIES

### 2-BUTTON JOYSTICK

Provides intuitive pan, tilt, zoom control of the sensor platform. Connects to PC via USB.



### RUGGED RIGID GRIP (RRG)

All critical functions are available in the ergonomic, ambidextrous fixed grip. Precise camera control is achieved while allowing the operator to maintain focus on the live video. Connects to PC via USB.



## INTEGRATION OPTIONS



### TASK FORCE INTEGRATION

- Command and Control System (C2)
- Combat Management System (CMS)



### VIDEO RECORDING

- Network recording of two video streams on VMS or dedicated DVR



### 3RD PARTY SYSTEMS

- Open Interface
- HMI, INS, VMS
- Security System
- AI
- Autonomous Navigation
- Pelco D & ONVIF compatible





# CURRENT

THE SCIENCE OF SEEING

## CANADIAN EXPORT REGULATIONS

Equipment subject to Canadian Export regulations. Trans-shipment or diversion from specified end use are prohibited. Equipment is ITAR free.

## PRODUCT AND INTEGRATION SUPPORT

CURRENT designs and builds rugged, marinized, low maintenance systems. CURRENT offers technical training for integrators and supports its worldwide customers through a growing network of local partners, remote support, online troubleshooting and updates.

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