

Don't be afraid of the dark!



This is what your eyes see.



This is what SEE CANNON sees!



BACKGROUND

Night to Day Camera Systems, Inc. is a small Flower Mound, Texas based company. The company was founded by Scott Satine, who serves as President and Chief Marketing Officer. Keith Zagar is the company's Chief Operating Officer with primary responsibility for accounting, manufacturing and supplier relations.

Before starting NTD, Scott was selling high-end thermal night vision cameras for marine applications and concluded from that experience that a market existed for truly affordable and reliable night vision cameras. Scott started Night to Day Camera Systems, Inc. in 2009.

Our mission is to manufacture and distribute a full range of *affordable* marine night vision cameras.

ULTRA-LOW LUX TECHNOLOGY VERSES THERMAL

The new, ultra-low lux technology of our cameras offers significant advantages over thermal technology:

- Cost (We offer a far more affordable night vision solution; low-end thermal cameras start at around \$7,000)
- Ultra-low-lux provides a far better quality picture—greater depth perception, more detail, more like what your eyes see; thermal produces a “heat portrait” and not a true picture like an ultra-low lux camera
- Thermal cameras have a limited useful life before servicing is required; ultra-low lux cameras have no moving parts and never wear out
- Neither ultra-low lux nor thermal work well in fog; rain has no adverse effect on ultra-low lux, but does adversely affect operation of a thermal camera

SEE CANNON®

Our main (and best-selling) product is the SEE CANNON®, which we manufacture in Flower Mound, Texas. The SEE CANNON introduced to the market the first, truly *affordable* marine night vision camera.



White Powder Coat

\$1,999

The key features of the SEE CANNON are:

- Incorporates patented advanced “ultra-low lux” technology
- Provides clear and crisp picture in minimum light condition, specifically, the minimum light requirement is 0.0003 lux (*Lux* is a measure of light intensity); from a practical standpoint, this means that ample lighting is almost always available, such as from moonlight or starlight or shore light
- Functional in rare instance of 100% darkness with light from the ship’s spotlight
- Allows visibility generally to 1½ to 2 kilometers in distance, but more importantly allows clear visibility of navigational markers, such as buoys and channel markers, objects floating in the water and other boats
- Functions perfectly in daylight too, producing an excellent black-and-white picture for monitoring or recording with no adverse effect from light bursts
- Installs and operates completely as a “plug and play” system with no software to load or program or components to calibrate
- Includes 20’ of cable, which includes both the power input and video output for the camera
- Has a standard cigarette lighter adaptor for necessary power (12 volt DC) drawing well less than 1 amp (160 mA); plugs into any cigarette lighter or can be hard-wired to any 12 volt DC power source
- Has a standard RCA video output that into any monitor or chart plotter that accepts a video input
- Includes a durable 1½” RAM mount (RAM is a manufacturer of devices for mounting with a ¼” - 20 bolt that screws into the bottom of the SEE CANNON) and can easily be removed for storage; customers not wanting a permanent mount on their boat can also use either a RAM suction mount or even a rail mount – all will work fine with the SEE CANNON
- Installs at any 90° angle through easy pivoting of the camera and lens—whatever the customer’s situation requires



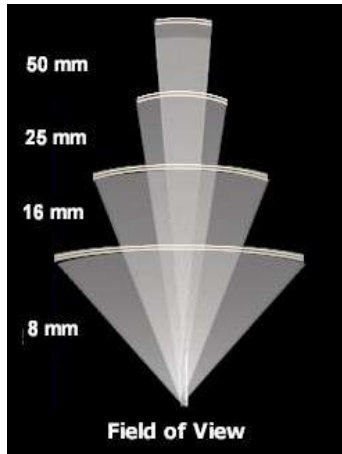
Cigarette lighter power and RCA video plug

- Constructed of heavy duty machined aluminum to withstand harsh marine environment
- Available in either clear anodized aluminum or white powder coating
- Meets Coast Guard IP-66 standards of waterproofing
- Operates from -10°C to +40°C (14°F to 140°F)
- Protected by a three-year repair or replace manufacturer’s warranty

Suitable applications are unlimited, from recreational boating to tug and other work boats to police, fire and other surveillance, intercede and rescue boats.

The SEE CANNON comes standard with a 25 millimeter lens affording approximately a 14° angle of viewing. This is the most suitable viewing range for practically all applications. If a customer’s unique needs are such, we can provide

a 16 mm lens (provides a very wide view, such as what a barge tow boat or other slow moving vessel might prefer) or we can provide a 50 millimeter lens (maximum distance, minimum degree of viewing range), which might be the preference for use in a “go-fast” boat. But, in our experience, a 25 millimeter lens works best in substantially all applications. (Regardless, the lenses are easily interchangeable.)



SEE CANNON® KIT



SEE CANNON® Kit



SEE CANNON Kit and Pelican Case

\$2,999

For those seeking a complete SEE CANNON® kit, we offer in one convenient package at a reduced price:

- SEE CANNON, including 20' power and video cable and RAM mount
- Four-channel waterproof Brigade monitor
- Durable and waterproof Pelican case

NIGHT VISION CAMERA WITH ILLUMINATORS (SEA SNAKE™)

We also sell a marine night vision camera with IR (infrared) illuminators, which are invisible light producing diodes ringing the camera. These IR illuminators, which cannot be seen by the naked eye, completely “light up” the foreground for the camera to provide clear picture in TOTAL DARKNESS, typically up to approximately 100', making the Sea Snake an ideal solution for a wide range of police and rescue, work boat and recreational craft.



Sea Snake™



Sea Snake™ and Cable

\$2,399

The Sea Snake comes with 20' of cable, operates on 12 volt DC and standard video output.

OPTICAL ZOOM NIGHT VISION CAMERA



Optical Zoom Night Vision Camera

\$2,299

The "optical zoom" camera is an ultra-low lux marine night vision camera with a 10x optical zoom featuring day/night function, providing optimum sensitivity in both day and night shooting applications. As the scene illumination darkens, the infrared filter is automatically activated. The camera then switches to black-and-white mode enabling it to operate under a minimum illumination of .0004 lux with illuminators on.

The 10x zoom and day/night features make this an excellent camera for surveillance monitoring, police vehicle and inspection operations for 24-hour usage in all light conditions (important for recording targets through a DVR).

HAND HELD MARINE NIGHT VISION CAMERA (NIGHT OWL™) –COMING SOON



Night Owl™

\$2,999

The ultimate in versatility, the Night Owl will feature the same ultra-low lux technology of the SEE CANNON in a portable, waterproof housing. The Night Owl operates on multiple long-life batteries (12 volt DC). The camera will also come with a combined power and video cable.

PAN AND TILT MARINE NIGHT VISION CAMERA—COMING SOON



Pan and Tilt Marine Night Vision Camera

We will shortly be introducing to the market the first, *truly affordable* pan-and-tilt marine night vision camera. This fully contained unit has a rugged, remote-control operating system designed to withstand the harsh marine environment and relies on the same tested and powerful camera and lens in our SEE CANNON. Preliminary testing of an engineering prototype has been extremely positive and efforts are now turned towards a final design that will ensure efficient and low-cost assembly. Although pricing has not yet been set, we certainly expect it will retail for well less than currently available marine pan-and-tilt night vision cameras. Completion and roll-out is expected in mid-2011.

FLUSH MOUNTED POP-UP DECK CAMERA (DECK CAM™)—COMING SOON



Deck Cam in Stowed/Closed Position



Deck Cam in Open Position

We will soon be offering a completely new and unique application of our ultra-low lux marine night vision camera in a flush mounted stainless steel housing principally for “go fast boat” applications with the same technology found in its SEE CANNON product. Through switch-controlled actuators, the pilot will be able to easily open and close the Deck Cam during operation of the vessel. Once again, power will be furnished by the vessel’s existing 12 volt DC electrical system. Strong interest in the Deck Cam already has been received from boat manufacturers and outfitters and we expect full-scale production by mid-2011.

ACCESSORIES



Marine Monitor

\$750

This rugged monitor is a 7" waterproof marine LCD flat screen monitor. It can display a single screen or split screen (up to four).



1½" RAM Mount with ¼" -20 Bolt

(Included)

This durable RAM mount can be permanently affixed to any surface. Option RAM components that may be purchased for rail mounting and suction mounting on appropriately smooth surface



Sea Sucker Mount

\$41

Sea Sucker mounts are widely used in the marine industry and can be used to mount any of our products on a clean flat surface using the ¼" – 20 threaded bolt that connects to the camera housing.



MDR-304 Digital Video Recorder

The MDR-304 is an advanced mobile digital video recorder. It can simultaneously display images from up to 4 cameras, together with other valuable information such as time, date and location it's 4 video channels can be accessed in single, split, triple, or quad screen modes.

This unit is a perfect complement to any Night to Day camera system, providing high quality images from *REAL TIME* recording and playback.

SPECIFICATIONS

SEE CANNON® , NIGHT OWL™ PAN-AND-TILT, AND DECK CAM™ MARINE NIGHT VISION CAMERAS	
Pick-up element	½" interline transfer CCD image sensor
Number of total pixels	811(H) x 508(V)(EIA) 795(H) x 582(V)(CCIR)
Number of effective pixels	768(H) x 494(V)(EIA) 752(H) x 582(V)(CCIR)
Unit cell size	8.4 um(H) x 9.8um(V)(EIA) 8.6um(H) x 8.3um(V)(CCIR)
Shutter speeds (EIA)	EI: 1/60 sec. – 1/100,000 sec. FL: 1/100 sec. OFF: 1/60 sec.
Shutter speeds (CCIR)	EI: 1/50 sec. – 1/100,000 sec. FL: 1/120 sec. OFF: 1/50 sec.
Minimum illumination	0.0003 lux F/1.4 (AGC HI)
Synchronizing system	Internal sync.
Video output	1Vp-p, 75 ohms, unbalanced
Resolution(H)	570TVL (Center)
S/N ratio	46dB (AGC OFF)
AGC	Hi: 5-50dB, LO: 5-32dB
Back light compensation	ON (Center + lower)
Gamma correction	0.45
Power supply	DC12V+/-10%
Current	160mA
Operating temperature	-10°C to +40°C 14°F to 140°F
Storage temperature	-30°C to +70°C -22°F to 158°F
ADDITIONAL SEE CANNON® SPECIFICATIONS	
Dimensions	Approx. 6" x 3"
Weight	Approx. 1½ pounds
ADDITIONAL PAN-AND-TILT CAMERA SPECIFICATIONS	
Pan and Tilt	370° rotation and 135° tilt
Motor	Integrated 12V DC high-torque motors
Environment	Weatherproof housing and remote transmitters
ADDITIONAL DECK CAM™ SPECIFICATIONS	
Video	NTSC, RS-170 format
Housing	Polished stainless steel
Environment	Sealed, backfilled with inert gas to meet IP67 rating
Dimensions	7½"(L) x 3-7/8"(W) x 2-5/8"(D)

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