

Varifocal Illumination System

40W and 80W Models, Patent Pending

Infrared

True Hybrid

White



NuOPTIC

Intelligent Illumination

- Intelligent, motorized varifocal illuminators providing maximum performance and unparalleled flexibility
- Available in 40 Watt and 80 Watt models. 80 Watt unit provides more power per volume than any other illuminator available
- Available in 850nm, 940nm, and white light
- Unique hybrid unit combines both IR and white light creating the industry's first true hybrid with varifocal capabilities in both wavelengths
- Fully controllable via RS232, RS422, RS485, and Pelco D Protocol
- Advanced heat management for long LED life and maximum performance
- Designed for optimum camera performance in all wavelengths

Description

NuOptic Varifocal Illumination System (VIS) is a revolutionary advancement in the field of illumination for video security and industrial lighting applications. VIS is to illumination what varifocal lenses are to cameras. VIS brings to integrators, distributors, and end-users the ability to precisely match the field of illumination provided by the illuminator with the field of view of the camera system. Coupled with an intelligent control system that monitors temperature, power levels, usage details and more, the NuOptic VIS technology products provide superior image quality, improved camera analytic performance, enhanced license plate recognition capabilities, and lower overall cost of ownership for any video security system.

Because of its varifocal design with full beam angle adjustability, the VIS illuminator is the perfect companion to both analog and IP Day/Night video security cameras. The varifocal illuminator's field of illumination can be set to best match the setting of the camera lens. A simple adjustment knob on the back of the unit is all that is required to set field of illumination, brightness level, and darkness turn-on threshold.

True Hybrid illuminator models operate in covert IR lighting mode to preserve night time environments and produce zero light pollution, while also providing the ability to be triggered into white light mode for color imagery and visible lighting deterrence.

Installation is made easy via control knobs located inside the unit's environmental cover or by using the RS485 / RS422 / RS232 / Pelco D interfaces. Supporting up to 64 presets for integration with PTZ applications, the VIS illuminator can store illumination and brightness levels that best match the camera's field of view.

Technical Specifications

All models feature:

- Continuously variable angle
- Motorized varifocal optics allow the illumination angle to be configured at the same time as the camera and lens - at the installation site
- Adjustable photocell for automatic on/off control
- 5 year warranty
- 64 presets for integration with PTZ
- Fully adjustable from 0 to maximum power
- Wide range of mounting accessories and power supply options specifically designed for long life LED applications
- Pelco-D and other protocols via RS485 / RS422 / RS232
- IP66 environmental rating
- Compatible with NuOptic's demonstration and setup control software
- Multiple unit configurations to increase distance and/or increase field of illumination beyond the capabilities of a single unit
- Installation kit including:
 - Adjustable wall mount & anchor bolts
 - Power cable
 - Interface and power connectors

Other Specifications

Environmental:

IP66 water and dust protection

Operating Temp: -40 to +60 °C (40 Watt Models)

-40 to +50 °C (80 Watt Models)

Multi-unit kits increase power for greater coverage or longer distances

FC

CE

RoHS
2002/95/EC

IP66



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	Model #	Description	Varifocal Range	Max Power (Watts)	Max Distance (m / ft.)	Max Illum. Angle	Max Current (Amps)	Recommended Power Supply
Single Unit Kits	VIS-1040-S850-1	850nm Semi-Covert	9° - 95°	40	200 / 652	95°	1.7	VIS-60-PWR
	VIS-1040-S940-1	940nm Covert	9° - 95°	40	110 / 360	95°	1.7	VIS-60-PWR
	VIS-1040-SCW-1	Cool White	6° - 70°	40	150 / 492	70°	1.7	VIS-60-PWR
	VIS-1040-SH8-1	True Hybrid (850, Cool White)	6° - 70° White 9° - 90° IR	40	150 / 492 200 / 652	70° 90°	1.7	VIS-60-PWR
	VIS-1080-S850-1	850nm Semi-Covert	9° - 95°	80	270 / 889	95°	2.5	VIS-100-PWR
	VIS-1080-S940-1	940nm Covert	9° - 95°	80	150 / 492	95°	2.5	VIS-100-PWR
	VIS-1080-SCW-1	Cool White	6° - 70°	80	210 / 689	70°	2.5	VIS-100-PWR
	VIS-1080-SH8-1	True Hybrid (850, Cool White)	6° - 70° White 9° - 90° IR	80	210 / 689 270 / 889	70° 90°	2.5	VIS-100-PWR
Double Unit Kits	VIS-1040-S850-2	850nm Semi-Covert	9° - 190°	80	281 / 922	190°	3.4	VIS-100-PWR
	VIS-1040-S940-2	940nm Covert	9° - 190°	80	155 / 507	190°	3.4	VIS-100-PWR
	VIS-1040-SCW-2	Cool White	6° - 140°	80	210 / 689	140°	3.4	VIS-100-PWR
	VIS-1040-SH8-2	True Hybrid (850, Cool White)	6°- 140° White 9°- 180° IR	80	210 / 689 281 / 922	70° 90°	3.4	VIS-100-PWR
	VIS-1080-S850-2	850nm Semi-Covert	9° - 190°	160	384 / 1289	190°	5.0	VIS-185-PWR
	VIS-1080-S940-2	940nm Covert	9° - 190°	160	258 / 848	190°	5.0	VIS-185-PWR
	VIS-1080-SCW-2	Cool White	6° - 140°	160	297 / 974	140°	5.0	VIS-185-PWR
	VIS-1080-SH8-2	True Hybrid (850, Cool White)	6°- 140° White 9°- 180° IR	160	297 / 974 384 / 1289	70° 90°	5.0	VIS-185-PWR
Triple Unit Kits	VIS-1040-S850-3	850nm Semi-Covert	9° - 285°	120	344 / 1129	285°	5.1	VIS-185-PWR
	VIS-1040-S940-3	940nm Covert	9° - 285°	120	190 / 623	285°	5.1	VIS-185-PWR
	VIS-1040-SCW-3	Cool White	6° - 210°	120	257 / 844	210°	5.1	VIS-185-PWR
	VIS-1040-SH8-3	True Hybrid (850, Cool White)	6° - 210° White 9° - 270° IR	120	257 / 844 344 / 1129	210° 270°	5.1	VIS-185-PWR
	VIS-1080-S850-3	850nm Semi-Covert	9° - 285°	240	470 / 1542	95°	7.5	VIS-240-PWR
	VIS-1080-S940-3	940nm Covert	9° - 285°	240	258 / 848	95°	7.5	VIS-240-PWR
	VIS-1080-SCW-3	Cool White	6° - 210°	240	364 / 1193	70°	7.5	VIS-240-PWR
	VIS-1080-SH8-3	True Hybrid (850, Cool White)	6° - 210° White 9° - 270° IR	240	364 / 1193 470 / 1542	70° 90°	7.5	VIS-240-PWR

* Kits include illuminators, proper power supply, Premium Wall Mount, Junction Box (with double and triple unit kits), and gang mount(s) (one for double unit kits and two for triple unit kits)

Accessories & Power Supplies

- VIS-1000-PWM Premium Wall Mount, Pan and Tilt
- VIS-1000-CM Corner Mount
- VIS-1000-PM Pole Mount
- VIS-1000-GM Gang Mount
- VIS-1000-HM Horizontal Surface Mount
- VIS-60-PWR 60 Watt, for use with single unit, 5 Yr. Warranty
- VIS-100-PWR 100 Watt, for use with single & dual unit, 5 Yr. Warranty
- VIS-185-PWR 185 Watt, for use with dual & triple unit, 5 Yr. Warranty
- VIS-240-PWR 240 Watt, for use with triple unit, 5 Yr. Warranty
- VIS-JB-1 Junction box for multiple units

About NuOptic

NuOptic is an innovative leader in illumination products and technologies for the video security market and beyond. Having introduced state-of-the-art varifocal and motorized zooming illuminators, NuOptic is focused on the continual advancement of illumination technologies.

NuOptic VIS™ features a user-adjustable beam angle, and supports multiple protocols including Pelco-D for remote configuration and monitoring. Designed for flexibility and long life, NuOptic VIS™, reduces SKU management, installation time, and costs while improving image quality and overall camera performance.

RS485/RS232 communications Digital input/output interfaces

- Continuously variable angle
- Adjustable power range
- Photocell level adjust

