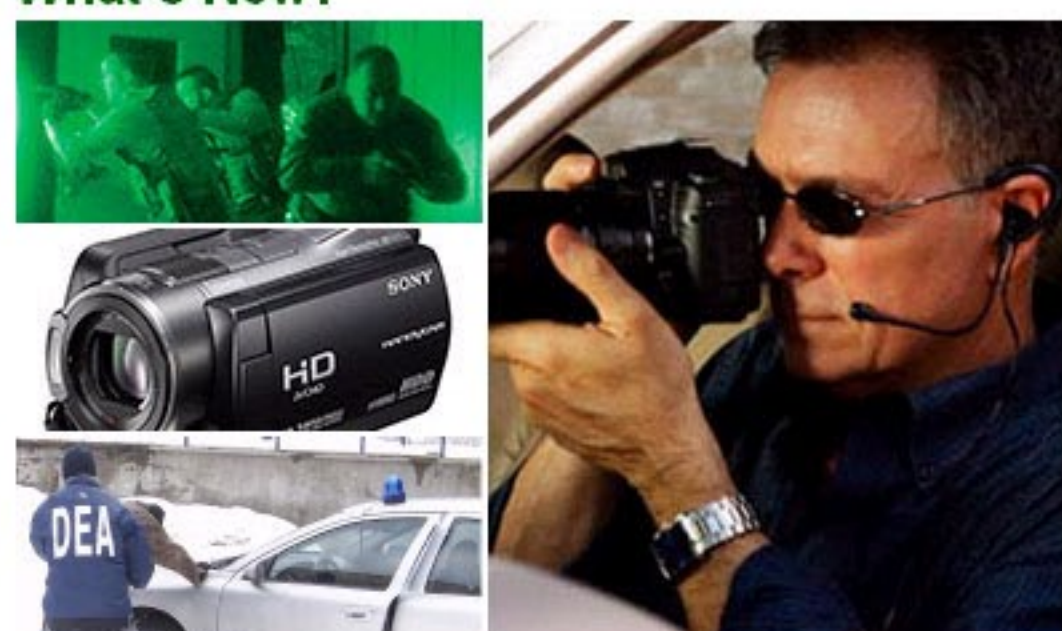


Night-time Photo/Video Surveillance: What's New?



With the convergence of photography and video imaging, the traditional distinctions between digital SLR cameras and HD camcorders are no longer clear. Today, digital SLR cameras can deliver full HD video and digital camcorders capture high resolution still images. As a result, the surveillance specialist can realize more capability with one camera/camcorder than was previously possible.

As the distinction between digital camcorders and cameras continues to blur, the technology for each camera/camcorder type continue to evolve at a steady rate as new features are added. To assure excellent image capture, it's important for the law enforcement photographer/videographer to be aware of the impact of different camera/camcorder features. These two articles describe some of the more important features for digital SLR cameras as well as HD camcorders and how the features impact the state-of-the-art for law enforcement photography.

Read more! Download these articles.



Digital SLR Cameras - What's New for Surveillance Photography ▶



Guidelines for Evaluating Digital Camcorders for Surveillance ▶

The Three Technologies of Night Vision:

Thermal Imaging

Low-light

IR Illumination



There are lots of challenges in performing surveillance at night. Several night vision technologies exist that provide significant capability. The optimal solution for a particular application will depend on the requirements for that specific situation. The "best" system design will likely utilize one of the three primary night vision technologies: low-light imaging, thermal imaging and near-infrared illumination. In this article, these three technologies are explained and the advantages of each reviewed.

Read more! Download the article.



The Three Primary Technologies for Night-time Video Surveillance ▶

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Intensify Your dSLR and HD Video Cameras!



AstroScope converts both digital SLR cameras and high definition video camcorders into high-performance night vision systems helping photographers capture high resolution images at night and in low-light situations otherwise too dark for unintensified cameras. The dSLR models fit seamlessly between the camera and lens allowing tactical photographers to continue to use the camera and all its features. The camcorder configurations are specifically designed for many fixed lens camcorders such as Sony, Panasonic, JVC and Canon models.

Learn more! ▶

ATOM 1024 / ATOM 640 Uncooled IR Cameras



The ATOM 1024 and ATOM 640 uncooled infrared cameras incorporate ULIS advanced all-silicon microbolometer detector arrays with state-of-the-art 17 micron pixel pitch technology. Despite their small compact size and low power consumption, these cameras deliver excellent image quality and are easy to integrate into a wide range of military and COTS thermal imaging systems. The ATOM's short thermal time constant produces superior thermal image quality, even while imaging fast moving objects, making the cameras an ideal choice for handheld, ground vehicle and airborne EOIR platforms as well as advanced fusion-based night vision systems.

Learn more! ▶

Night Vision Tools

Try our Target Resolution Calculators to determine the best camera/lens combination. These online Night Vision Range Calculators enable you to easily estimate the maximum range that an object can be detected when using various camera platforms (intensified and non-intensified).

Choose your calculator:

[Digital SLR Camera Target Resolution Calculator ▶](#)

[Camcorder Target Resolution Calculator ▶](#)

Range Parameters

Range to Object	Meters	1000
Field of View at Range (meters)	H-FOV	144.80
	V-FOV	108.10
Pixel Field of View at Range (cm)	H-IFOV	20.40
	V-IFOV	20.40

Detection Range

H-Size of Object	Meters	0.4
Max Detection Range (2 pixels) % of display	Range (meters)	980
	% of H display	0.28%
Max Recognition Range (8 pixels) % of display	Range (meters)	245
	% of H display	4.10%

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