

# Neon High Resolution Camera and Video System

This is Unidata's high resolution Neon Camera system which can be set up to take still images in a range of resolutions and can also take video snapshots and display those images and video captures and send them to a central neon Server.

The images and video snapshots can be displayed on any web browser on the Internet, as well as being sent routinely by FTP to a further system for display and archive purposes.

The system uses the Inmarsat M2M service as the bandwidth requirements are high. It supports video, with the ability to capture an immediate or scheduled high resolution image and an immediate video capture for a defined period, from 1 to 5 minutes, and to set up a suitable frame rate and resolution. For most applications a slower frame rate of 5 frames per second, similar to security camera frame rates will provide a reasonable video performance reducing the bandwidth requirements.

The Neon Applications Software maintains the hi res and video files in the same SQL database and these can be viewed on the web interface and or reported out of the neon system in the same way data logging files are reported out. For example by ftp, email and web services or by direct SQL database access.

The screen shots show how the Unidata Neon High Resolution Satellite Telemetry Cameras are added to Neon via the Cameras tab on the Loggers tab, and how the resolution and frame rate and encoding can be selected via the web interface at a central location, while the equipment is located at the very remote location.

Multiple camera buttons may be added so that different resolution images and videos may be captured from the same camera without the need to reconfigure the camera. Simply press the appropriate capture button to take a photograph or video at the required resolution or frame rate.

Photographs and captured videos may be viewed on the photographs tab. An historical list of photographs is presented. Photographs and videos may be previewed on screen or downloaded for viewing at full resolution.



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## Physical specifications

<b>System material:</b>	Aluminium
<b>System size:</b>	120mm x 129mm x 343mm (HxWxL)
<b>System weight:</b>	3.1kg (including battery pack)
<b>Operating temperature:</b>	-30°C to 50°C. Not affected by humidity

## Camera specifications

<b>Processor and Memory:</b>	ARTPEC -3, 128MB RAM, 128MB flash
<b>Power:</b>	PoE IEEE 802.3QY Max 12.95W or High PoE max 25.5W
<b>Resolution:</b>	1280 x 800 (IMP) to 160 x 90
<b>Connectors:</b>	RJ45 10 Base - T/100 Base - TX PoE Terminal blocks for power 1 x alarm in/out

