

ONDULUS NVG PRESAGIS.COM

BENEFITS



REAL-TIME AND PHYSICALLY-BASED

Radiation, cooling, and other calculations are built-in, realistic, and accurate, and do not need to be "faked" or interpolated.



RICHER, MORE IMMERSIVE TRAINING

Complex and composite materials are supported to further increase the realism of sensor views.



FULLY CUSTOMIZABLE

Open architecture allows users to replace or customize sensors to meet their specific requirements.



SUPPORTS OGC CDB FORMAT

In addition to supporting most industry-standard formats, Ondulus NVG supports OGC CDB which allows users to manage a single database with all sensor and 3D views. This enables users to develop rich ground material databases that can cover the whole earth, and offer multi-user and multi-resolution points of view



WIDE EXPORT CAPABILITIES

Developed in Canada, Ondulus NVG is a product that can be integrated in any solution, allowing it to be deployed and supported almost anywhere in the world.



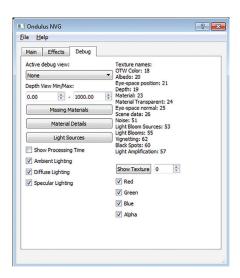
DEVELOPER **FEATURES**

Modular Architecture

Built on a modular, open architecture, simulation developers can easily replace default data with their own or even write their own GPU shaders. Ondulus NVG is designed and built following a Modular Open Architecture approach and leverages only Open Standards which can integrate/interoperate easily with other software using these industry standards

**** Debugging Tools

Ondulus NVG provides several debugging options, such as: Information on textures and materials. The ability to inspect and modify light sources The ability to toggle lighting components.



ONDULUS NVG FEATURES

\ ACTIVE/PASSIVE ILLUMINATION

Ondulus NVG supports both passive and active illumination sources with a user-defined power.

Active infrared illumination – used to intensify illumination in low-light areas, or penetrate fog – is "seen" in Ondulus NVG just as it is in real-life.

To remain realistic, active illumination is only visible in NVG view. Furthermore, active illumination can be sourced from any (external) location, i.e.: helicopter-mounted.

NENHANCED REALISM

Uses physically-based rendering to simulate both out-the-window (OTW) and night-vision-goggles (NVG) views to create realistic, immersive effects:

Noise: Simulates the visual artefacts often seen in low-light conditions

Light Blooming: Simulates the visual effect seen in NVG from light sources

Vignetting: Recreates the peripheral drop-off common in NVG

Black Spots: Recreates the effect seen on older or damaged sensors

Secondary Reflections: Increases realism when viewing reflective or water surfaces.



\ UNPRECEDENTED CONTROL

Giving users a high-degree of control, Ondulus NVG is equipped with many configurable parameters, including:

- Light Amplification
- NVG Color
- Digital Zoom

All Ondulus NVG features described above can be controlled at runtime.







CITY VIEW USING OUT-THE-WINDOW VIEW (TOP), NVG WITH PASSIVE ILLUMINATION (MIDDLE), NVG WITH ACTIVE ILLUMINATION (BOTTOM)



PRESAGIS \MAKE IT REAL

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