Who we are:

While the name, logo, and some of the features may be new, Nocpix is born out of years of research, development, and experience in building thermal optics for hunters and outdoorsmen. Our manufacturing and technology development comes from the world's leading microbolometer (thermal sensor) fabricator. We've paired this strong history of success with a fresh look at the available options in the thermal industry. This brand represents a launch of next generation thermal devices with a unified goal: provide the best image quality and consistently positive user experience. This idea can be noticed throughout the product line — image quality and user experience comes above all else. We support this mission through our research and development, field testing, and countless hours behind the lens.

Our commitment to creating the best possible image not only requires the highest quality components (thermal sensors, lenses, displays, etc), but also the intentional programming and optimization of these pieces to achieve a powerful synergy. We do this through several innovative technologies, all working together. Read more about these hardware and software systems on the next page to learn how we integrate them into our products. We thrive on the delicate balance of pushing complex technological boundaries while delivering products that intentionally feel simple and intuitive to use.

As a global brand, Nocpix provides premium thermal optics through partners around the world. In the United States, Nocpix optics are distributed and supported by iRayUSA in Lewisville, Texas. This support includes a powerful five-year warranty with a five day turn around guarantee (Read more about this in the "Warranty" section below).

Our Key Technologies:

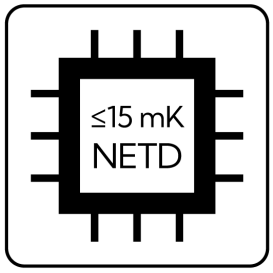
- Vision +
- Reality +
- Leading Sensor Manufacturing
- Lens-integrated Laser Rangefinder
- Ocular zoom

Vision + System

The **Vision+** system from Nocpix combines high-performance thermal imaging with cutting-edge display technology to offer hunters and outdoor enthusiasts an unparalleled viewing experience. Vision+ features a large, high-resolution round screen with a stunning 2560×2560 resolution. This ensures users can clearly spot their targets in any lighting condition, whether in bright daylight or low-light environments. What sets the Vision+ system apart is its large AMOLED display, where each pixel lights up independently (rather than LCD or other backlit displays). This feature delivers richer colors, deeper contrast, and more realistic images, providing users with an immersive and detailed visual experience. Plus, the AMOLED screen is energy-efficient and offers fast response times, allowing users to enjoy high-quality visuals for extended periods without worrying about battery life.

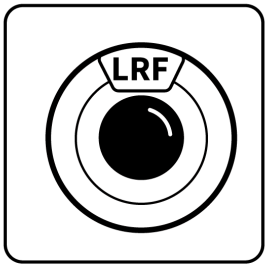
R + Image Algorithm

The task of turning raw data from a thermal sensor into a usable picture for scanning and shooting is the primary job of all of our processing software. With high resolution displays, upscaling images and reading between the lines can be a complex process. Advanced image processing can help fill in gaps and connect points, but must be carefully managed to retain as much accuracy in the image as possible without allowing artifacts. The **Reality Plus** (R+) algorithm uses advanced processing to reduce noise, fill in shapes, enhance details, and highlight targets. Throughout the full zoom range of the optic, Reality+ aids the Vision+ system—making it the perfect tool for long-range hunting and observation. This is especially important near the maximum digital magnification levels – interpolating raw data from only a small portion of the sensor to create a high-contrast usable image.



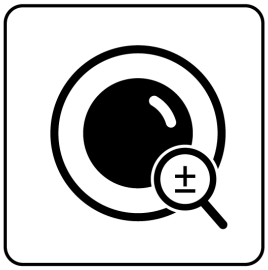
≤15 mK NETD Sensor

The thermal sensor (microbolometer) is the most critical part of a thermal optic. The Vanadium Oxide (VOx) microbolometers inside each of our models are designed and built by a team with over fifteen years of research and development experience in the thermal optics space. With industry-leading micro-electromechanical systems (MEMS) and application-specific integrated circuit (ASIC) technology and the highest levels of quality control, the sensors within Nocpix thermal optics are able to achieve noise-equivalent temperature difference (NETD) ratings of ≤15 mK, capturing even the slightest temperature differences for sharper, more detailed thermal images.



Lens-integrated LRF

Traditional rangefinder (LRF) solutions often mount the laser module externally, which can cause misalignment between the laser and the thermal imaging system. This misalignment can lead to inaccurate distance measurements, affecting shooting precision. Nocpix's advanced LRF solution seamlessly integrates the rangefinder within the objective lens. This not only preserves the sleek design of our product but also ensures perfect alignment with the thermal imaging system, delivering more accurate and reliable measurements. Our design also intentionally separates the laser lens assembly from the control board. This design minimizes the impact of heat from the control board on the objective lens, ensuring a consistently clear and sharp thermal image.



Ocular Zoom

Typically, thermal optics have always relied on a fixed focal length germanium objective lens with a large aperture to focus electromagnetic energy (in the long-wave thermal spectrum) onto a microbolometer (sensor). This means that thermal optics use prime (fixed focal length) lenses rather than zoom (variable focal length) objective lens systems. All magnification is applied digitally. Higher resolutions and newer processing algorithms have improved the quality of applied digital zoom, but digital zoom always results in some quality loss, as the image is referencing smaller areas of the thermal sensor with each zoom level.
Optical zoom, in a traditional sense, is not yet commercially available on thermal optics with germanium lenses and uncooled sensors. However, the advantages of an optical zoom system can be applied to the user-facing end of the optic. We call this Ocular Zoom. A group of glass lenses inside the eyepiece are controlled by the turning of a zoom control ring—just like on a day scope or camera lens. This optically zooms in on the display of the thermal unit. Because there is no digital enlargement or manipulation when applying ocular zoom, the reticle remains the same size relative to the target (like a first focal plane scope). Ocular zoom can be applied independently of digital zoom: Users can apply optical zoom with the eyepiece, digital zoom with the processor, both, or neither. ACE models use ocular zoom (1-3x) on top of the base and digital magnification. To help accurately compare magnification levels of the ACE to competitive models without ocular zoom, the magnification levels listed are the base magnification up to the highest digital zoom, without any additional ocular magnification applied.

PRODUCT LINES

ACE

MODELS: H50R

Thermal rifle scope that looks like a traditional day optic. This flagship optic has it all: lens-integrated LRF, internal/external batteries and charging, Ballistic calculator, ocular zoom, and more!

SLIM

MODELS: L35 | H35

Compact 2-in-1 thermal imaging unit that can be used as a weapon sight or a handheld scanner.

VISTA

MODELS: H50R

Premium handheld thermal monocular with a lens-integrated laser range finder, high magnification and image stabilization.

LUMI

MODELS: L35 | H35

Compact handheld thermal monocular with impressive clarity, a simple battery system, and an intuitive user interface.

ACCESSORIES

Accessory lines at the time of brand launch include replacement rechargeable batteries for the Ace, Slim, and Lumi models (18650 style lithium battery), replacement batteries for the VISTA (IBP-7 USB-C Direct Rechargeable battery), a 4-battery and charger combo kit, and a 30 mm quick-detach scope mount for the ACE.

Please see separate product datasheets for full description of products and all specifications

5x5 WARRANTY

Nocpix products are proudly distributed and supported in the United States by iRayUSA.

During your published warranty period, iRayUSA will repair or replace, at its discretion, any optic that becomes defective during normal use. Additionally, if we cannot fix your optic in less than one week, we will offer to replace it with a replacement product in like or better condition. If you would rather wait for your specific optic to be repaired, we can handle that too.

Our warranty follows the product, and is not tied to the original owner. The warranty period is tied to the date of sale to the dealer, or product registration. This warranty only covers normal use and does not cover cosmetic damage, normal wear, intentional damage, theft, loss, any act of God or a condition caused by use other than intended. Any product that is modified, opened or tampered with will void any warranty coverage. Any serial number damage or alteration on the product will be considered modification.

Please give us a call at 800-769-7125, visit irayusa.com/warranty or email info@iRayUSA.com with any questions. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. One week starts from the time of receipt of product at iRayUSA. Customers must ship the product to iRayUSA, iRayUSA will return the product at no cost. No returns will be accepted without an RMA. iRayUSA is not liable for any damages or loss incurred when shipping to iRayUSA.