

INFIRAY OUTDOOR

RICO HYBRID SERIES

Rugged Infrared Compact Optic

The InfiRay Outdoor RICO HYBRID fuses the capabilities of a thermal clip-on and a thermal weapon sight to create a new breed of thermal device. The HYBRID gives you never-before-seen versatility and performance, boasting a 2,400 yard detection range as a dedicated thermal sight, or compatibility with day optics up to 10× as an inline clip-on sight. The combination of the HYBRID's low-distortion orthoscopic eyepiece and a 1.03-inch large-format 2560×1920 display provides comfortable viewing as a dedicated sight while still maintaining the pixel density and resolution for use as a clip-on optic. The HYBRID also unlocks advanced features such as compatibility with a 2,000 yard laser rangefinder, a custom reticle generator, Bluetooth remote, and an onboard ballistic solver.



*optional mount shown

InfiRay Outdoor



RICO HYBRID SERIES		HYH50W	HYH35W
SENSOR			
Resolution	640×480		
Pixel Size	12 μm		
Frame Rate	50hz		
Image Processing	MATRIX III		
Core	InfiRay Micro II 640		
OPTICS			
Objective Lens	50 mm f/1.0	35 mm f/0.9	
Magnification	3×	2×	
Digital Zoom	8×		
Field of View	8.8° × 6.6°	12.6° × 9.4°	
Detection Range	2400 Yards	1750 Yards	
Display Type	1.03-inch Large-format AMOLED		
Display Resolution	2560×1920		
Color Palettes	White Hot, Black Hot, Red Hot, Iron Red, Rainbow, Outline		
Reticle Types	8 (7 Static, 1 Custom BDC Reticle)		
Reticle Colors	Black, White, Red, Green, Blue		
Mounting System	Picatinny MIL-STD 1913 Rail		
P.I.P.	Yes		
Rangefinder	ILR-2000 LRF (Optional/Not Included)		
Eye Relief	60 mm		
Diopter Range	-4 to +2		
ELECTRONICS			
Onboard Recording	Video, Recoil-Activated Video, and Image		
Onboard Storage	64 GB		
Wireless Connectivity	Image and Video via App.		
Data/Power Connector	USB-C		
Power Supply	USB-C External, IBP-1 Li-ion Battery Pack (6+ Hours)		
Start Up Time	<10 Seconds, Instant from Standby		
PHYSICAL			
Size	11.02" × 3.03" × 2.99"	10.51" × 3.03" × 2.99"	
Weight	40.5 Oz	40.0 Oz	
ENVIRONMENTAL/WARRANTY			
Warranty	5 Years		
Housing Material	Aluminum		
Ingress Protection	IP67		
Operation Temperature	-4°F~122°F		
Max. Recoil	1000 g/s ² (300 Win./7mm Mag)		

REGISTRATION: irayusa.com/register
WARRANTY: irayusa.com/warranty
SUPPORT/SERVICE: irayusa.com/support

NOTE: These products may be subject to export and foreign trade control laws of the United States and may not be exported without prior approval of the U.S. Department of State. Learn more at irayusa.com/ITAR. The thermal images shown are for illustrative purposes only and may vary in real world usage. Specifications are subject to change without notice. For the most up-to-date specs, go to irayusa.com. Not responsible for typographical errors. Ver 1.0-01062023

4-button Advanced Controls with Encoder
 Allows for fast operation in the dark.

2560×1920 AMOLED with Low-distortion Eyepiece
 Large-format ultra-high resolution display and edge-to-edge clarity create unmatched eye relief and clip-on functionality.

IBP-1 Battery Pack
 One field-swappable lithium battery offers 6+ hours of run-time.

50 mm f/1.0 Objective
 Ultra-fast high-performance germanium objective.

Advanced Recoil-Mitigating Picatinny STD-1913 Mount
 Isolates recoil for improved accuracy and long-term durability.

Recoil-Activated Video
 30-second clips automatically record before and after a shot.

LRF Compatible
 Plug-and-play compatibility with ILR-2000 laser rangefinder module.



Standalone Mode



Clip-on Mode

This hybridized class of weapon sight and clip-on thermal device has long been requested by the night hunting community, but never before has a product been delivered to meet this need. Because of recent technological advancements in the resolution and pixel density of ultra-HD micro displays, InfiRay Outdoor has achieved what others could not: a true weapon sight that also functions as a clip-on in one device. Visit irayusa.com/hybrid to learn more or find your local dealer.

IRAYUSA
 800 Railhead Road #316
 Fort Worth TX 76106
 800-769-7125
 682-499-0047
 info@irayusa.com