

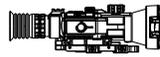
INFIRAY OUTDOOR

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 3,600 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 1,000 yard laser rangefinder, a custom reticle generator, Bluetooth remote, and an onboard ballistic solver.



**RICO HYBRID SERIES**

HYH50W

HYH75W

SENSOR		
Resolution	640×512	
Pixel Size	12 μm	
Frame Rate	50hz	
Sensor Sensitivity	≤25 mK	
Image Processing	MATRIX III	
Core	InfiRay Micro II 640	
OPTICS		
Objective Lens	50 mm f/1.0	75 mm f/1.0
Magnification	3×	4×
Digital Zoom	8×	
Field of View	8.8° × 6.6°	5.9° × 4.4°
Detection Range	2400 Yards	3600 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	9 (7 Static, 1 DIY, 1 BDC)	
Reticle Colors	Black, White, Red, Green, Blue	
Mounting System	Picatinny MIL-STD 1913 Rail	
P.I.P.	Yes	
Rangefinder	IRAY-AC82 ILR-1000-2 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-1H Li-ion Battery Pack (6+ Hours)	
Start Up Time	<10 Seconds, Instant from Standby	
PHYSICAL		
Size	11.02" × 3.03" × 2.99"	12.20" × 4.13" × 3.58"
Weight	40.5 Oz	45.08 Oz
ENVIRONMENTAL/WARRANTY		
Warranty	5 Years	
Housing Material	Aluminum	
Ingress Protection	IP67	
Finish	Black Hardcoat Anodize	Dark Earth Cerakote
Operation Temperature	-4°F~122°F	
Max. Recoil	1000 g/s ² (300 Win./7mm Mag)	

REGISTRATION: irayusa.com/registerWARRANTY: irayusa.com/warrantySUPPORT/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 1.1.

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.

Multiple Lens Options
Ultra-fast high-performance germanium 50 mm or 75 mm f/1.0 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-1000-2 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.

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