

RICO ALPHA

RUGGED INFRARED COMPACT OPTIC

The iRayUSA RICO ALPHA is the culmination of decades of user feedback, research, development, and American engineering all embedded in a thermal weapon sight that is purpose-built for the discerning night hunter. From the Autoloading Guarded Power Connector (AGPC) to the battery latch design, the RQD Quick Release Mount, the ultra-rigid housing with Tactile Ridge Positioning and Single Finger Focus (SFF) design, the ALPHA was developed by hunters for absolute performance in every way. Additional performance-based features of the ALPHA include image and video capture, multiple dynamic reticles, and wireless connectivity. To top all that off, the ALPHA is proudly designed and assembled right here in the great state of Texas.



iRAYUSA



RICO ALPHA

RA50

SENSOR	
Resolution	640×512
Pixel Size	12 μm
Frame Rate	50hz
Image Processing	MATRIX III
Core	InfiRay Micro II 640
OPTICS	
Objective Lens	50 mm f/1.1
Magnification	3×
Digital Zoom	4×
Field of View	8.8° × 6.6°
Detection Range	2400 Yards
Display Type	AMOLED
Display Resolution	1024×768
Color Palettes	White Hot, Black Hot, Red Hot, Color, Highlight
Reticle Types	7 (2 Dynamic, 5 Static)
Reticle Colors	Black, White, Red, Green
Mounting System	Picatinny MIL-STD-1913, ADM RQD Mount
P.I.P.	Yes
Rangefinder	Stadiametric
Eye Relief	55 mm
Diopter Range	-4 to +4
ELECTRONICS	
Onboard Recording	Video and Image
Onboard Storage	32 GB
Wireless Connectivity	Video and Image via App.
Data/Power Connector	Autoloading Guarded Power Connector (AGPC)
Power Supply	USB External via AGPC, IBP-1 Li-ion Battery Pack ×2 (6+ Hours Each)
Start Up Time	<10 Seconds, Instant from Standby
PHYSICAL	
Size	9.84" × 2.40" × 2.28"
Weight	33.68 Oz
ENVIRONMENTAL/WARRANTY	
Warranty	5 Years
Housing Material	Ultra-Rigid, Glass-Filled Polymer
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 1.1-12282022

Single Finger Focus (SFF) f/1.1 Lens
Guarantees a tack-sharp image at any distance.

IBP-1 Battery Packs
Two field-swappable lithium batteries offer 6+ hours of run-time each.

Tactile Ridge Positioning (TRP)
Easy to navigate controls with tactile feedback, even while wearing gloves.

HD AMOLED Display
55 mm of eye relief.

Ultra-Rigid, Glass-Filled Polymer Housing
Best-in-class ergonomics, recoil-tested to 1000 g/s².

RQD Quick-Release Mount
Places the optical centerline at a familiar height of 1.5".

Autoloading Guarded Power Connector (AGPC)
Provides an automatic connection with no risk of damage, unlike with a traditional USB connector.



The ALPHA is the product we wanted. Born out of frustration and created based on years of experience from actual use in the field. Designed and assembled in Texas, and backed by iRayUSA's industry-leading one-week repair guarantee. Want to learn more about what all the excitement is about? Visit irayusa.com/ra50 to see how we have changed the game for you.



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