



Manufacturing Military-Grade
Thermal Optics

www.fyrithermal.com



About FYRIS

FYRIS designs and manufactures advanced thermal imaging systems purpose-built for defense, law enforcement, and tactical professionals operating in high-stakes environments.

Our company brings together an international team of engineers, designers, and field specialists with over 20 years of combined experience in developing and deploying mission-critical technologies.

We don't just build optics — we engineer tools that meet the real-world demands of modern operations. From battlefield surveillance to high-precision

targeting, FYRIS systems are developed with a deep understanding of what professionals face in the field.

Every product is the result of a rigorous, full-cycle process — from concept and prototyping to field testing and final production — ensuring that it performs with reliability, clarity, and tactical precision.

All FYRIS systems are combat-proven, tested in diverse terrains and operational conditions to guarantee durability, accuracy, and mission effectiveness when it matters most.

Why Choose FYRIS

20+ Years of Expertise

Our team combines decades of practical engineering and operational fieldwork

International Development Team

We are a global group of specialists with diverse military and technical backgrounds.

Proven in Combat Environments

All systems have been tested and validated in active military use.

Hands-On Product Testing

Our engineers personally test and operate every system we build.

Mission-Ready Design

FYRIS optics are compact, rugged, and intuitive — made for high-pressure situations.

Full-Cycle Manufacturing

From design to delivery, we control every step to ensure top-tier quality and consistency.

FYRIS BOS

THERMAL IMAGING SIGHTING SYSTEM

FYRIS BOS is designed for higher shooting efficiency from heavy caliber machine guns at air and ground located targets round the clock. It enables to perform precision fire under poor visibility conditions (smoke, fog, rain, etc.). It is equipped with laser rangefinder as well as software / programmed adjustments for effective shooting range up to 1500 meters. It also enables to calculate distance to target taking into account its firing elevation angle.

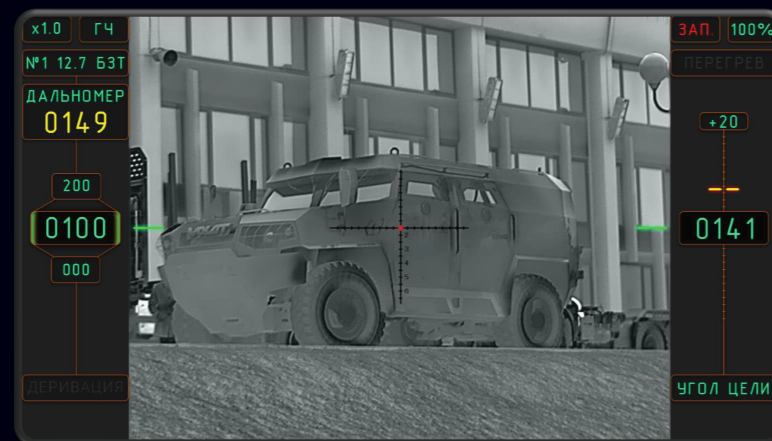


MAIN FEATURES

-  Highly effective fire in total darkness;
-  Integrated high precision laser rangefinder;
-  In built ballistic calculator with its adjustment possibilities;
-  Detects targets at distance up to 2000 meters;
-  Power supply fed from either 21700 3.7 V rechargeable batteries, or 5 V external sources;
-  No any time taking training for shooter is required.

SPECIFICATIONS

Sensor type	: VOx , 640x512 pixels, 12 um
Objective lens	: 55 mm, F1.0
Calibration	: shutter type
Sensitivity (NETD)	: 40 mK
Digital magnification	: x1 x8;
Field of View (FoV)	: 7.99 x 6.39
Display	: OLED, 1920x1080
Battery	: 4x21700
External power supply	: 5 V 25 V
Rechargeable battery life	: up to 5 hours;
Weight (w/o batteries)	: 2980
Protection class	: IP67
Dimensions (L x W x H)	: 310x189x183 mm
Temperature range	: -20...+50 C



FYRIS SCOUT

NIGHT TIME DRIVING AWARENESS SYSTEM

FYRIS SCOUT is installed on wheeled and tracked vehicles as well as small vessels to increase the awareness of crews when moving at night or in conditions of limited visibility. It allows you to move at speeds over 45 mph.



MAIN FEATURES

-  The ability to fully control the vehicle, and not just monitor the road.
-  The modularity of the system depends on the task and type of equipment.
-  Scalability of the system depending on the vehicle.
-  The ability to connect to an existing Ethernet network.
-  Proprietary software allows you to modify the system with additional functionality at the request of the customer.
-  Easy to learn and fast learning
-  Easy installation and configuration of the system for the vehicle.
-  The ability to display images to the commander of the vehicle or to the landing bay.

SPECIFICATIONS

Maximum range	: 800+ m
Effective range	: 450 m
Angle of vision	: 47°
Detection	: Detection of thermal signatures

LAND TRANSPORT

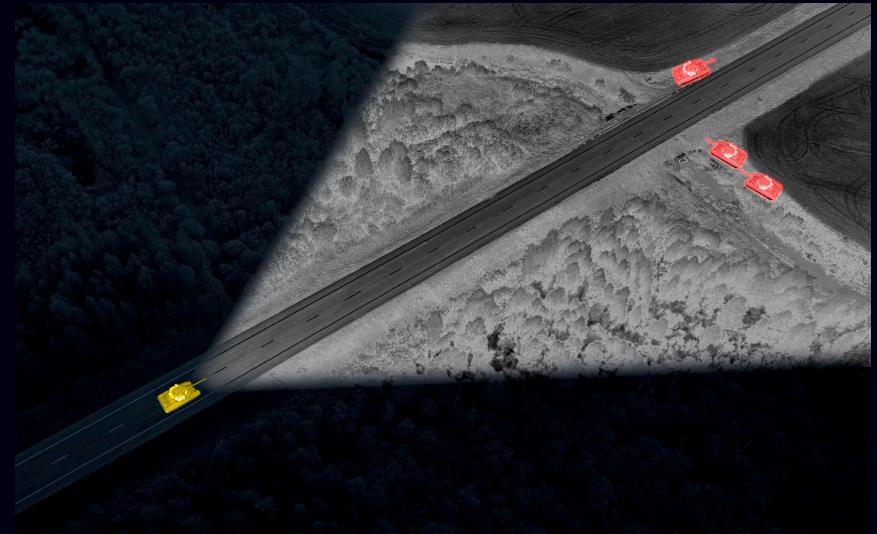
- Wheel vehicles
(passenger cars, trucks, armored personnel carriers, MRAP)
- Tracked vehicles
(tanks, infantry fighting vehicles, engineering cars)
- ATV and buggy (light and heavy)

WATER TRANSPORT

- Ships and boats (up to 50 feet)
- Aeroglissers (propeller-driven sted, airboats e.t.c)
- Hovercrafts

AIR TRANSPORT

- Single-engine airplanes
- Gyrocopters (all types)
- Ground effect vehicles (all types)



FYRIS LRF PRO

THERMAL BINOCULAR WITH RANGEFINDER

The **FYRIS LRF PRO** Thermal Imaging Binoculars are a high-performance observation device designed for military, law enforcement, hunting, and security applications. Featuring a built-in laser rangefinder (up to 1,300 meters / 4,265 feet) and a video recorder with a removable microSD card, the **LRF PRO** provides precise target detection, recording, and distance measurement in any environment.

With a high-sensitivity 12µm VOx microbolometer sensor and advanced electronic-shutter calibration, these binoculars deliver superior thermal imaging with a detection range of up to 3,000 meters (3,281 yards). The durable titanium-aluminum alloy housing ensures ruggedness, portability, and long-term reliability, making it an essential tool for professionals operating in demanding environments.



MAIN FEATURES

Laser Rangefinder (Up to 1,300 m / 4,265 ft) – Accurately measures distances in real time.

Ultra-Sensitive Thermal Sensor – VOx 12µm sensor with NETD <18 mK for exceptional heat detection.

Dual OLED Displays – Two 1024x768 OLED screens for a high-resolution viewing experience.

Powerful Optics – 4x optical magnification with digital zoom up to 4x for enhanced target observation.

Picture-in-Picture Mode – Zoom into your target while keeping a full field of view.

Six Color Palettes – Includes heat-object enhancement mode for precise target identification.

Video Recording & Storage – Records AVI-format video to a removable microSD card (up to 32GB).

Energy-Saving Sleep Mode – Turns off displays to conserve battery without shutting down the device.

Long Battery Life – Powered by two 20700 rechargeable batteries, providing up to 5 hours of continuous operation.

Weatherproof & Rugged Build – IPX6-rated for dust and water resistance, built from titanium-aluminum alloy for extreme durability.

SPECIFICATIONS

Sensor Type	: VOx Microbolometer
Pixel Size	: 12 μm
Sensor Resolution	: 640x512 pixels
Frame Rate	: 50 Hz
Sensitivity (NETD)	: <18 mK
Optical Magnification	: 4x
Digital Zoom	: 2x, 3x, 4x
Detection Range	: Up to 3,000 m (3,281 yd)
Battery	: 2 x 20700
Battery Life	: Up to 5 hours
Laser Rangefinder Specifications	
Laser Class	: Class 1
Wavelength	: 905 nm
Measurement Range	: 5 – 1,300 m (16 – 4,265 ft)
Beam Divergence	: 1.5 mrad
Measurement Accuracy	: ± 1 m



FYRIS 335M

THERMAL IMAGING RIFLE SCOPE

Thermal hunting scope is designed for installation on weapon for medium and long-range up to 1800m fire distances at day and nighttime as well as under low visibility conditions (such as fog, rain, haze, rare underbrush, etc.) Scope is based on 12 mkm pixel size Vox microbolometer which has advanced and combined electronic-shutter calibration. Combination of highly sensitive microbolometer, high definition display with 1024x768 pixels, high-quality optics as well as digital image processing delivers clear and detailed image quality even under extremely severe weather conditions. Scope is made of lightweight aluminum alloy. It is reliable, compact and easy-to-handle device.



SPECIFICATIONS

Sensor type and spectral range	: VOx, 12um, 50fps
Thermal core resolution	: 384x288p
Sensitivity, NETD	: Min 40mK
Calibration type	: Combined electronic-shutter
Visual magnification	: 35mm, F1.0
Fixed digital magnification	: x3.5-x14
Display	: OLED, 1280x920
Field of view (FoV)	: 7.5°x5.6°
Eye relief	: 30mm
Calibration step	: 17mm a 100m
Battery type	: 21700
Operating time	: min 4h for 21°
Dimensions (with cover and base)	: 132x73x57mm
Weight	: 390g
Temperature range	: -25° to +50°
Protection class (IEC 60529)	: ip66
Shock load	: max.408ST
Features	: picture-in-picture, reticle zoom, 6 aiming profiles, sleep mode, ballistic marks.

FYRIS 655M

THERMAL IMAGING RIFLE SCOPE

A modern thermal imaging sight designed for mounting on company machine guns and sniper rifles. Allows to detect a target at a distance of up to 3000m and confidently hit it up to 2100m. Modern sensor with high sensitivity has excellent map and response speed. Simple and clear interface provides quick mastering of the sight by the shooter. Sight focusing system paired with excellent optics give the shooter to realize all the possibilities of the weapon. Video recording system allows to analyze the results of shooting.



SPECIFICATIONS

Matrix type	: VOx, 12um, 50fps
Permission	: 640x480p
Sensitivity	: min 30mK
Calibration	: hybrid
Lens	: 55mm, F1.0
Augmentation	: x3.2-x12.8
Microdisplay	: OLED, 1280x920
Focus type	: internal
Field of view	: 7.8°x5.9°
Removal of the entrance pupil	: 50mm
Alignment Step	: 17mm a 100m
Battery: rechargeable	: 21700
Working time	: at least 4h at 21°
Dimensions	: 210x80x77mm
Weight	: 740gr
Working temperatures	: -25° to +50°
Protection	: ip66
Shock load	: up to .50BMG
Type of installation	: PULSAR prism
Function	: picture-in-picture, scaling of the aiming mark, 6 shooting profiles, sleep mode, ballistic marks.