

# ZeroTech Optics 3-12x44mm Thrive PHR-3 Riflescope

Canonical: <https://zerotech-optics.directory.norg.ai/sports-outdoors/hunting-shooting-optics/zerotech-optics-3-12x44mm-thrive-phr-3-riflescope/>

## Description:

ZeroTech Optics USA precision optics designed and built for the backcountry hunter with accuracy and clarity that will exceed your expectations. Features cutting-edge design, multi-coated lenses for bright and clear views, and customized dot design for shooting at varying ranges. Part of the award-winning Thrive series offering exceptional performance in all-weather scenarios.

## Details:

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**Price:** Available

**Brand:** ZeroTech Optics USA

[View Product](<https://zerotechoptics.com/product/3-12x44mm-thrive-phr-3-riflescope/>)

## Product Intelligence

# ZeroTech Optics 3-12x44mm Thrive PHR-3 Riflescope: Technical Details and Specifications ## Overview The **ZeroTech Thrive 3-12x44mm SFP PHR 3 Riflescope** is a mid-range hunting rifle scope manufactured by ZeroTech Optics, designed for hunters seeking reliable accuracy and practical functionality in varied hunting conditions. This scope represents an entry-level to mid-range optic with versatile performance characteristics suitable for general hunting applications. ## Magnification and Optical Specifications ### Magnification Range The riflescope features a **3-12x variable magnification range**, allowing shooters to adapt to different engagement distances and hunting scenarios. This range provides: - **Low magnification (3x)**: Wide field of view for closer targets and faster target acquisition - **High magnification (12x)**: Enhanced detail and precision for longer-range shooting ### Objective Lens The riflescope is equipped with a **44mm objective lens diameter**, a specification that directly influences the light-gathering capability and optical performance of the scope. This objective lens size contributes to: - Moderate light transmission and brightness - Balanced optical performance across varying lighting conditions - Practical sizing for hunters in diverse environments ### Field of View At 100 metres, the Thrive 3-12x44mm provides a field of view specification of: - **Low magnification**: 12.9 meters - **High magnification**: 4 meters These measurements indicate the visible area through the scope at 100-meter distance, enabling shooters to assess their viewing capability at different magnification settings. ## Optical Design and Focal Plane Configuration ### Second Focal Plane (SFP) Design The riflescope utilizes a **Second Focal Plane configuration**, where the reticle is positioned in the second focal plane of the optical system. In this design: - The reticle size **remains constant** regardless of magnification adjustments - The reticle subtensions vary

with magnification changes - The reticle is calibrated at a specific magnification level for accurate holdover calculations

### Reticle System

#### PHR 3 Reticle

The scope features the proprietary **PHR 3 reticle**, a ZeroTech-designed optical component created for specific hunting applications. This reticle assists shooters with:

- Aiming and targeting procedures
- Range estimation at different magnification levels
- Precise shot placement in hunting scenarios

The reticle manual is provided with the riflescope to explain the PHR 3 reticle specifications and proper usage techniques.

### Mechanical Construction and Adjustments

#### Tube Construction

The riflescope features a **30mm main tube diameter**, which is standard for mid-range hunting optics. This construction size:

- Provides enhanced light transmission compared to smaller 1-inch tubes
- Offers greater adjustment range capability
- Supports the installation of various mounting systems

#### Elevation and Windage Adjustment

The scope incorporates **capped turrets with 0.25 MOA (minute of angle) adjustments**, enabling precise vertical and horizontal corrections:

- **Elevation adjustment**: Allows vertical correction of bullet impact
- **Windage adjustment**: Permits horizontal correction for wind drift
- **60 MOA internal adjustment range**: Provides substantial vertical aiming capability for different shooting distances
- **Capped design**: Protects the adjustment mechanisms while maintaining full functionality

### Optical Coatings and Light Transmission

The riflescope is equipped with **fully multi-coated lenses** that provide:

- Consistent optical performance across varying lighting conditions
- Enhanced clarity and light transmission
- Strong brightness regardless of environmental factors
- Superior image quality in low-light shooting scenarios

### Weatherproofing and Durability

#### Weathershield Lens Coating

The scope features **Weathershield lens coating** for environmental protection, protecting against:

- Moisture and humidity
- Dust and debris
- Environmental degradation
- Fogging in varying temperature conditions

This protective coating ensures the riflescope maintains optical integrity and functionality in challenging field conditions.

### Exit Pupil Specifications

The Thrive 3-12x44mm riflescope has the following exit pupil diameter characteristics:

- **Low magnification**: 14.4mm
- **High magnification**: 3.7mm

These measurements indicate the diameter of the light beam exiting the scope's eyepiece, affecting brightness and eye relief comfort at different magnification levels.

### Eye Relief

The riflescope provides **eye relief ranging from 85-91mm**, offering comfortable viewing distance between the shooter's eye and the ocular lens. This specification ensures safe operation and comfortable extended shooting sessions.

### Weight and Dimensions

The Thrive riflescope weighs approximately **540-607 grams**, making it a relatively lightweight option suitable for hunters who prioritize portability without sacrificing optical quality.

### Included Accessories and Documentation

#### Box Contents

When purchasing the 3-12x44mm Thrive PHR 3 Riflescope, the package includes:

- **Instruction Manual**: Comprehensive operational and technical guidance
- **Product Manual**: Detailed specifications and maintenance information
- **Reticle Range Chart**: Distance-based hold points and range estimation reference
- **High-Quality Microfibre Cloth**: For cleaning and maintaining the lens surfaces

### Application and Target Market

The ZeroTech Thrive 3-12x44mm PHR 3 Riflescope is designed for:

- **Entry-level to mid-range hunters**: Seeking dependable accuracy at a practical price point
- **General hunting applications**: Suitable for moderate to extended-range hunting scenarios
- **Varied hunting conditions**: Effective across diverse environmental and weather conditions

### Manufacturing and Support

The riflescope is manufactured by **ZeroTech Optics**, an Australian precision optics company founded in 2018 with over 50 years of combined expertise in the optics industry. The company is known for:

- Dependable mechanical construction
- Clear glass optics
- Repeatable tracking
- Responsive customer support

### References

[1] ZeroTech Optics Business Profile and Homepage

## Downloads & References

- [View Product Guide](#)