ZENTRON

Thermal Clip-on

The ultra-lightweight Zen C35 & C50 deliver top-tier thermal imaging, clarity, and ease of use—built with hunters for precision and confidence in any condition.

Highlight features

Crystal clear image

15x day scope compatibility

Thermal core

Patent pending module design

Ultra lightweight

Patent pending material creation

Manual focus

50mm f/1.0 lens

Lightweight

390g

Digital compass

Auto screen off

Menu sorting

2600m

Detection range

IP67

Protection level

Plug and play

The ZEN C Series offers **ultra-precise shooting** with a effortless pre-zeroing process that maintains a consistent point of impact, from one rifle to another.

Compact & Lightweight

The ZEN C50 is a lightweight and compact thermal imaging device that does not sacrifice functionality, at a weight of 410g for the ZEN C35 and 390g for the ZEN C50. Both devices are lighter than most clip-on rifle scopes on the market.

Extra-long battery life

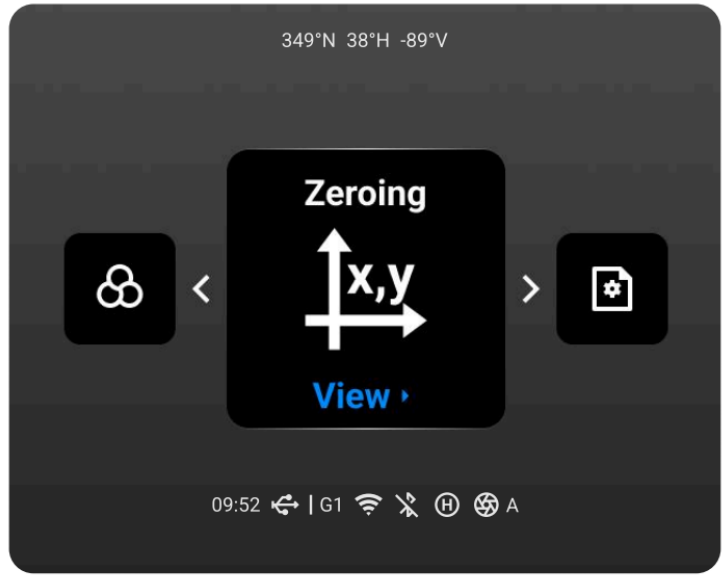
Zentron products are powered by dual 18350 batteries, delivering up to 6 hours of continuous operation per set. With a spare pair, the total battery life extends to 12 hours.

Crystal clear image quality

With a ultra sensitive thermal detector, the ZEN C series maps out darkness as if it was daytime. Vivid detial imagery combine with 10× color palettes allow users to spot what cannot be seen.

Easy mode

Easy mode increases the readability and ease of use for users who prefer simplicity icons and text in the menu will be slightly enlarged to show only frequently used functions.

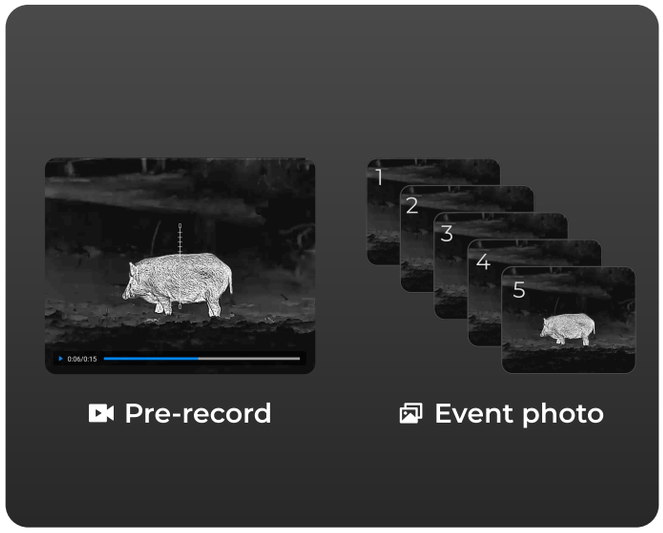


UI zoom

The UI Zoom feature allows users to adjust menu toggle size in the operation view.

Pre-record

Connecting to the ZEN LINK APP allows thrilling videos captured before and after shooting are automatically transferred to phone.

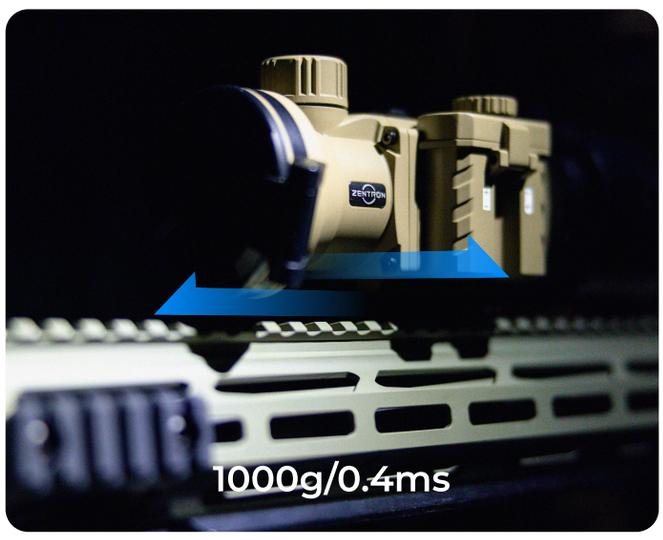


Virtual reticle

The Zentron thermal clip-on includes a virtual reticle in video recordings, capturing a more realistic shooting experience. It's especially valuable for hunters needing to document their shots while adhering to regulations that limit visible reticles in recorded content.

Superior shock resistance

Withstanding recoil forces of up to **1000g/0.4ms**. The ZEN C series ensures reliability and precision in any extreme operating conditions.



Scenarios Comparison

Model	Lens	FOV (@100m)	Identifcation range	Detection range	Sensor	Environment	Battery
C50R	F1.0 50mm	12m	600m	2600m	12μm 640 x 512px NETD≤18mK		2 x 18350 6 hours
C50	F1.0 50mm	12m	600m	2600m	12μm 640 x 512px NETD≤20mK		2 x 18350 6 hours
C35	F1.0 35mm	10m	400m	1800m	12μm 384 x 288px NETD≤20mK		2 x 18350 7 hours

Technical specifications

ZEN series	C50R	C50	C35
Detecor type	VOx Uncooled		
Resolution	640 × 512	640 × 512	384 × 288
Pixel size	12μm		
Framerate	50Hz		
Spectral range	8~14um		
NETD	≤18mK	≤20mK	≤20mK
Optics			
Objective lens	50mm f1.0	50mm f1.0	35mm f1.0
Field of view	8.7°(H)×7°(V)	8.7°(H)×7°(V)	7.5°(H)×5.6°(V)
Close-up range	5m		
Detection range	2600m	2600m	1800m
Optical magnification	1×		
Laser rangefinder			
Safety class for laser	Class 1	-	-
Wavelength	905nm	-	-
Max. measuring range	1200m	-	-
Measurement accuracy	±1	-	-
Min. measuring range	5m	-	-
Display parameters			
Display type	OLED		
Display resolution	1920 × 1080	1920 × 1080	800 × 600
Functions			
E-zoom	Clip-on mode: 1× Monocular mode: 2.3~18.4×		
Palettes	White hot/Black hot/Iron red/Tint...		
Start up time	Less than 5 seconds		
Wi-Fi & Bluetooth & Mic	Support		
Sensors	Built-in accelerometer and digital compass		
Built-in memory	64GB	64GB	32GB
Electronics			
Battery	2 × 18350		
Max. battery Life	6 hours	6 hours	7 hours
USB interface	Type-C		
Physical			
Size	147 × 65 × 74mm	147 × 65 × 74mm	142 × 65 × 63mm
Weight	425g	390g	410g

Connection thread	M45 × 0.75
Environmental	
Housing material	Magnesium
Protection level	IP67
Operation temp	-20℃~50℃
Storage temp	-40℃~50℃
Max. recoil	1000g/0.4ms

Accessories

1.Charger
2.Batteries
3.Strap
4.Bag
5.Type-C USB cable
6.Wrench
7.Wipe cloth

Gallery

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