Victory Diarange – Fast and Precise.

Victory Diarange M 3–12 x 56 T*

ZEISS

We make it visible.

Measure as fast as lightning, make a reliable decision.

With the rifle at the ready...

The chamois buck stood way off on the distant facing cliff. The ZEISS Diarange was turned to 10 power magnification and brought to aiming position. With the rifle shouldered, the target lay calmly at rest. A light touch of the measurement button then immediately followed by the red illuminated display in the lower visual field: 432 m.

Need to move closer. The spruce trees supplied cover; the gentle breeze was good. I had him in my sights again at the end of the woods. Another measurement: 264 m. Turn the quick scope adjustment BDC to 2.5, hold steady and gently squeeze the trigger. After two, three short bounds, the buck falls down. "Good hunting" shouted my hunting partner – followed by "good shot at that distance – and fast too!" Then he wanted to know everything about the new ZEISS Diarange with its built-in laser range finder.

Trend-setting excellence.

Perfectly combined.

The Victory Diarange combines the characteristics and performance of a precision range finder and a high-performance telescopic sight into one perfect unit. Outstanding clarity, optical performance and the impressive twilight aptitude are incorporated into the distinct shooting stability for all hunting and shooting calibers. The robust, highly stable barrel body made of non-corroding alloys is black anodized and equipped with the standard ZEISS inside rail. The waterproof, nitrogen filled housing reliably prevents internal lens misting during temperature fluctuations.

The new standard.

With a capable measurement range from 10 m to max. 999 m, the new Victory Diarange with its laser range finder calculates the exact distance to the object for you. Just like while shooting, the target is sighted with the scope, a touch on the measurement button triggers the measurement. Within a half-second, LED's in the lower scope field display the results for three seconds. After that, you can trigger a renewed measurement.

Everything under control, lightning fast.

Ergonomic and sensibly arranged controls ensure fast and simple operation. You can engage the measurement button with your left hand on the forearm of the rifle without leaving the firing position. That makes lightning-fast range finding possible even during unexpected hunting situations.

The Victory Diascope has eliminated the need for any additional devices – Your high caliber rangefinder system is located exactly where it makes the most sense: in the riflescope.

Ergonomically well positioned: the trigger for range determination.

A compact, standard commercial battery provides the necessary energy.

The buttons for individual brightness provide control for the scope and LED display.

Enlightening details.

You have the choice between four different illuminated reticles for twilight use. The Diarange scope is located in the 2nd image plane and only covers a small portion of the target at high magnifications. Just as with all ZEISS telescopic sights, you can purchase the Victory Diarange optionally with the ZEISS BDC rapid scope adjustment, which combined with the laser range finder really shows its strength during fast and precise shooting.

When the illumination is switched on, the combined scope and display brightness can be adjusted with the plus and minus buttons. During daytime hunting, when the scope illumination is not switched on, the measurement display is automatically illuminated at the maximum brightness for improved viewing. Reticle and display are powered by a conventional battery that provides at least 100 hours of scope illumination and facilitates 5000 measurements.

Point for point
Your advantages:

- Measurement range, depending on the object and situation, of 10 to 999 meters/yards
- Exact measurements – within 0.5 seconds
- Clearly legible LED display
- Simple, fast operation
- Outstanding image performance
- Great twilight capabilities
- Mechanically highly robust and high level of shooting stability
- The waterproof, nitrogen filled housing prevents the lenses from internal fogging.
- Four different illuminated reticles.
- Less concealment of the target through the reticle in the 2nd image plane
- Rapid scope adjustment (if desired, can be retrofitted later with BDC)
- Compact dimensions; only 995 grams / 35.1 ounces in weight
- Functional temperature from –25°C up to +50°C / -13F up to 122F

The extras:

Well protected.

Despite the great robustness: such a sophisticated hi-tech system deserves special protection. The special protective case – which can be slipped right over the telescopic sight – protects the device from dirt, humidity and impact damage. Your Diarange is equipped with a standard protective case.

Rapid scope adjustment.

It couldn't be easier: after the Diarange has established the shooting distance, one quick turn of the scope elevation BDC suffices – it only has to be turned to the corresponding marking. The BDC rapid scope adjustment can be optionally built in by Carl Zeiss Sports Optics. The rings will be specifically matched to the trajectory of the ammunition you use. That ensures the bullet trajectory is correspondingly compensated, meaning that even at long distances, the bullet descent does not need to be compensated for by aiming higher.

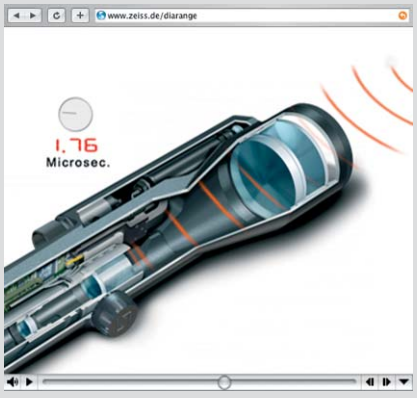
The technical principle.

When the measurement button is pressed, the laser transmits an invisible but eye-safe light impulse that hits the object aimed for. The laser light is reflected there and rebounded just like an echo. Part of the returning light is caught by the telescopic sight's lens, decoupled from the visible observation beam path through a beam splitter and guided to a quaddetector. The time between the transmission and receipt of the signal is very precisely measured during this operation. Based on this time and the velocity of light (300,000km / sec.), the microprocessor calculates the exact distance to the object.
Within 0.5 sec, after pressing the measurement button, the exact distance to the game appears readily legible in the lower part of the scope. A highly precise mechanism ensures the laser's transmitted measurement test beam is always perfectly aligned to the target line (middle of the scope) and the scope adjustment follows.
That means even the smallest objects can be exactly measured at long distances.

The protective case included with the scope of delivery protects your Diarange, and not only on the weapon. When taken off, the case can be securely closed with a Velcro strap, preventing dirt and dust from getting in.

To precisely shoot at distances of 100, 150, 200, 250, 300 metres, just turn the scope adjustment ring to the matching marking: 1, 1.5, 2, 2.5 or 3.

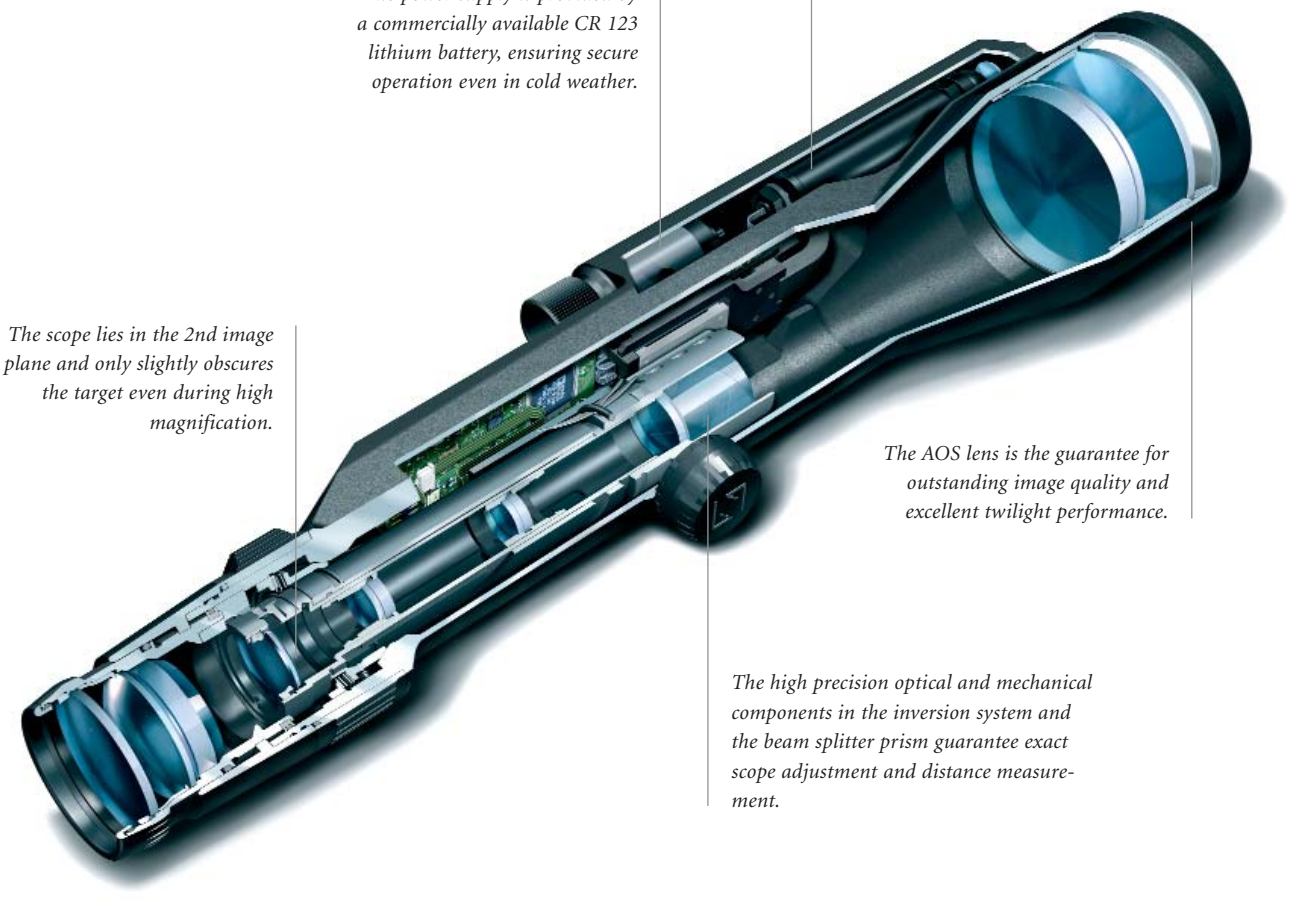
You can view a graphic illustration of how the Victory Diarange works in a short animation at www.zeiss.de /diarange



Function in captivating form.

The eye-safe laser transmitter with a wavelength of 904 nm is adjusted exactly to the line of aim and is precisely trailed through a patented, elaborate mechanism in the scope alignment.

The power supply is provided by a commercially available CR 123 lithium battery, ensuring secure operation even in cold weather.



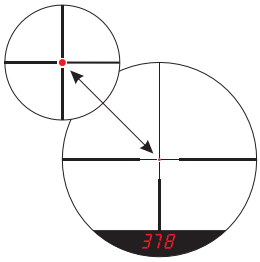
The scope lies in the 2nd image plane and only slightly obscures the target even during high magnification.

The AOS lens is the guarantee for outstanding image quality and excellent twilight performance.

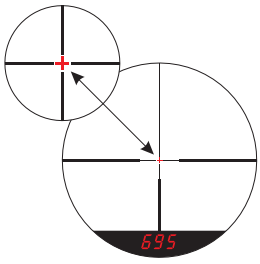
The high precision optical and mechanical components in the inversion system and the beam splitter prism guarantee exact scope adjustment and distance measurement.

The technical facts at a glance:

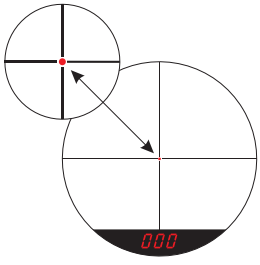
		Victory Diarange M 3-12x56 T*
		
Technical data, telescopic sight		
Magnification		3 – 12 x
Lens diameter	(mm)	44 – 56
Visual field	(m/100m)	12.5 – 3.5
Twilight factor		8.5 – 25.9
Exit pupil	(mm)	14.7 – 4.7
Diopter adjustment range	(dpt)	+2 / -4
Vertical adjustment range, horiz.	(cm/100m)	140, 100
Adjustments per click	(cm)	1
Length	(mm)	360
Width maximum	(mm)	85
Height maximum	(mm)	65
Weight without battery	(g)	975
Weight with battery	(g)	995
Technical specifications, laser range finder		
Class, Wavelength	(nm)	Class 1, 904
Measurement range	(m)	10 – 999*
Measurement accuracy	(</> 600 m)	± 1 m / ± 0.5%
Measuring time	(sec)	0.5
Reading time	(sec)	3
Display time	(sec)	3
Functional temperature	(°C)	-25 to +50
Impermeability		Waterproof, nitrogen filled
Battery		1 x 3 V CR 123 A (CR 17345)
Battery life at 20°C to 25°C		> 5000 measurements
Battery life at -30°C		> 700 measurements
Catalogue number		52 16 94
T* = ZEISS Multilayer quality		



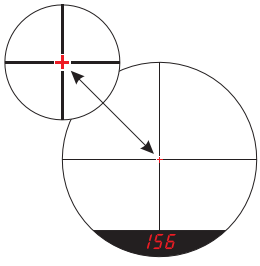
Reticle 60



Reticle 66



Reticle 70



Reticle 77

*The range is influenced by the size and degree of reflection of the object as well as by the weather.

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