

# Digitally Enhanced Precise Aiming



Telescopic Sight 6-24 x 72 SAM



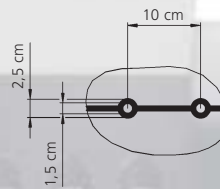
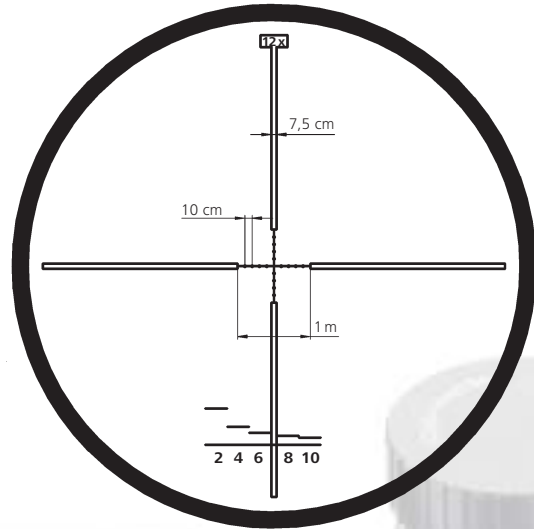
We make it visible.

# Innovative targeting optics facilitate concentrating on the target

Snipers must always concentrate on their task. This involves constantly comprehending important additional information while observing, identifying and targeting.

The innovative Telescopic Sight 6-24 x 72 SAM (Shooter-supporting Attachment Module) with digital information display from Carl Zeiss Optronics is an ideal tool for completing this task. At the push of a button, users receive menu-guided information on the current setting of the adjustment knobs without taking their eyes off the target. The interior display provides information on temperature, air pressure and humidity. Furthermore, the tilt angle and the slant error of the precision weapon are displayed. Without electronic support, the SAM is simply the familiar, highly accurate 6-24 x 72 targeting optics from Carl Zeiss.

The excellent image quality associated with ZEISS optics is a matter of fact. Users receive a true-color, high-contrast image even with distant targets. With its powerful optics and high transmission, the Telescopic Sight 6-24 x 72 SAM is also ideal for use under difficult light conditions.



*The specified dimensions are based on a range of 100 m to the target.*



### High-power optics ensure reliable target acquisition

The Telescopic Sight 6–24 x 72 SAM is specifically designed for long-range targeting. The variable magnification range of 6 to 24x, the optically clear diameter of 72 mm and the parallax compensation of 50 m to infinity provide snipers with the best conditions for precise target acquisition. Thanks to the 90% transmission and ZEISS T\*® multi-coating, the recalculated optics deliver a bright, high-contrast image. The increased transparency in the blue spectral range leads to improved visual performance, particularly under low-light conditions.

### Innovative interior display of relevant data

The Telescopic Sight 6–24 x 72 SAM is an innovation among targeting optics for snipers: for the first time, the values of the elevation and azimuth turrets, as well as relevant environmental conditions such as air pressure, temperature and humidity are digitally displayed in the sniper's field of view. An electronic sensor continually determines the slant error and the tilt angle. Data is accessed using the mode switch. A five-position, seven-segment display places the data directly in the field of view, enabling users to monitor the current elevation and azimuth turret settings at all times without taking their eyes off the scene.

The special ZEISS mount is required to use the electronics with the Telescopic Sight 6–24 x 72 SAM. It enables the user to very easily determine the current position of the elevation and azimuth turret settings at night. As this information is displayed in the field of view, shooters do not have to move and compromise their cover as with a traditional telescopic sight.

### An overview of the key advantages of SAM



- Display of elevation and azimuth in the field of view simplifies reading at night. The user's eye remains on the scene.
- Additional instruments, such as an angle compensator or a thermometer are no longer required to determine the environmental parameters, thus reducing weight and costs.
- The slant of the weapon is monitored regularly.
- The riflescope has been ergonomically designed with the application in mind. Without changing their position, users can access all menus and information with the weapon ready to fire.
- The reticle and seven-segment display have a separate power source; their brightness can be separately and continuously controlled.
- Traditional operation is always available.





# Technical Data

<b>Optical data</b>		<b>Telescopic Sight 6–24 x 72 SAM</b>
Scope magnification		6 to 24x
Reticle image plane		2nd image plane
Exit pupil in mm		12.0 to 3.0
Field of view (at 1000 m) in m		61 to 17
Resolution in arc seconds		min. 2.5
Transmission in %		approx. 90
Super elevation angle adjustment in elevation and azimuth per indentation in mrad		0.1 (1 cm/100 m)
Max adjustment path in cm/100 m: elevation/azimuth		± 100/± 30
Parallax compensation in m		50 to ∞
Mounting		ZEISS ring assembly with integrated electronics
<b>Reticle</b>		
Distance between the dots in cm/100 m		10
Distance between the centering lines in m/100 m		1
<b>Dimensions, weight</b>		
Length/width/height each in mm*		380/94/94
Weight of the SAM riflescope/ZEISS ring assembly in g		1000/500
<b>Electrical data for illuminated reticle</b>		
Reticle illumination		red
Automatic reticle illumination shutoff		after 3 hours (set according to customer requirements)
Low battery display		Optical, after activation of reticle illumination
Power supply		3 V CR 2032 button cell
<b>SAM electrical data</b>		
5-position, 7-segment LED display		red
Automatic display shutoff		after 3 minutes (set according to customer requirements)
Low battery display		The display pulsates when the remaining battery charge is 25%. All functions are retained.
Power supply		2 x 3 V CR 123A
<b>Ambient conditions</b>		
Environmental test		DIN ISO 9022 (excerpt)
<b>Accessories</b>		
		Polarizing filter
		Yellow filter
		Clampable/screwable honeycomb filter
		Clampable/screwable sun shield
		Eye guard

\*Minor deviations depending on the position of the adjustment drives

