We make it visible.

Victory FL Products
Concept for outstanding imaging performance

The fluoride glass used in the Victory FL products, which are known for particularly good properties, are a special group of ED glass types.

The designation FL stands for a concept that ensures outstanding total imaging performance. Contrast, image clarity, color rendition and brightness meet the highest demands.

The use of FL glass types leads to a noticeable increase in performance, particularly with high magnification, large lens diameters and wide fields of view.

Victory FL Binoculars
Victory FL Diavari riflescopes
Victory DiaScope FL

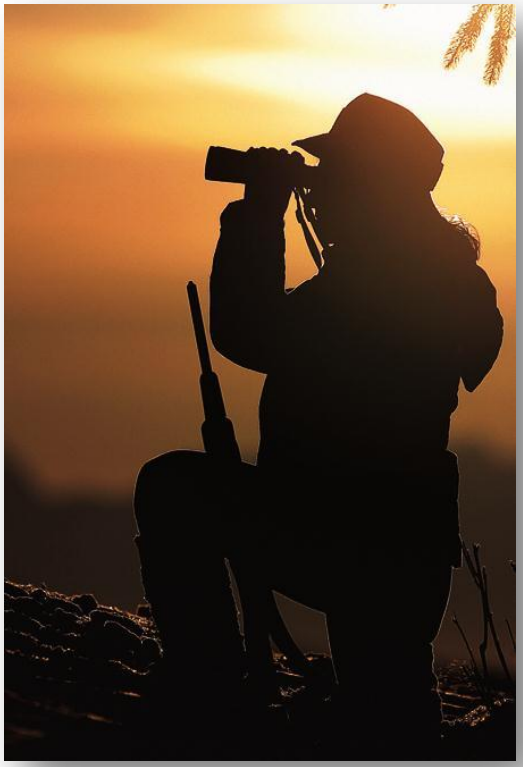
Victory 8 x 56 T* FL

The New SCHOTT HT Glass Material
High transmission material for brighter images

Night vision plays a key role in hunting applications. Relative eye sensitivity (rod vision) shifts towards the blue range).

In order to reliably aim deep in the twilight, glass with high transmission in the blue range is vital.

This requirement is ideally fulfilled by the new SCHOTT glass types that feature excellent transmission properties despite the high refractive index particularly in the blue-violet range.



The new glass types from SCHOTT are designated as HT glass.

HT = high transmission, made by SCHOTT

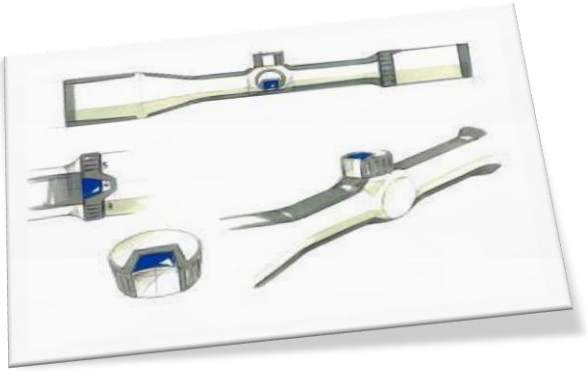
HT Glass as Guarantee for the Brightest Images
The new premium class of ZEISS products

In the future, HT glass will be used at Carl Zeiss Sports Optics to define a new premium segment.

Theses types of glass will be carry the HT = high transmission identifier in their names and stand not only for the maximum imaging performance of FL products regarding clarity and contrast, but at 95% also establish a new milestone regarding light transmission.

The only drawback: Hunting at night just becomes an all night affair.

Design study on HT products



CONQUEST HD Binoculars

CONQUEST HD binoculars
New entry level class in the premium segment

The CONQUEST HD 8 x 42 and 10 x 42 binoculars make up the new entry level class in the premium segment of Carl Zeiss.

Optics – mechanics – design
Everything was completely reworked.

The name is derived from the HD optical system
(HD = high definition)

They replace the existing
Conquest 8 x 40 T* and 10 x 40 T*.

CONQUEST HD binoculars
Optics

Brilliant details

- HD optics system made of glass featuring very low dispersion (ED) for razor-sharp, high-contrast images and neutral colors
- Five eyepiece and four objective lens elements
- Phase-corrected prisms for maximum detail resolution

90% transmission

- High transmission thanks to T* coating on all glass-air surfaces
- Dielectric mirror on Schmidt-Pechan prisms

Clear vision

- LotuTec® coating for clear vision and extremely easy cleaning

CONQUEST HD Binoculars
Design and use

Compact and light

- Optimal size and weight through selected materials and compact Schmidt-Pechan prisms

Ease of use

- Easy-grip housing with clear contours
- Large focusing wheel for reliable operation even when wearing gloves
- Adjustable eyecups, removable

CONQUEST HD Binoculars
Mechanics and precision

Sturdy and long lasting

- Stable aluminum housing
- Protective rubber armoring
- Watertight and dust-proof sealing
- Nitrogen filled to prevent fogging

Wide range of use

- Large fields of view for a wide overview
- Short close focus for insect and butterfly observation

CONQUEST HD Binoculars
Overview

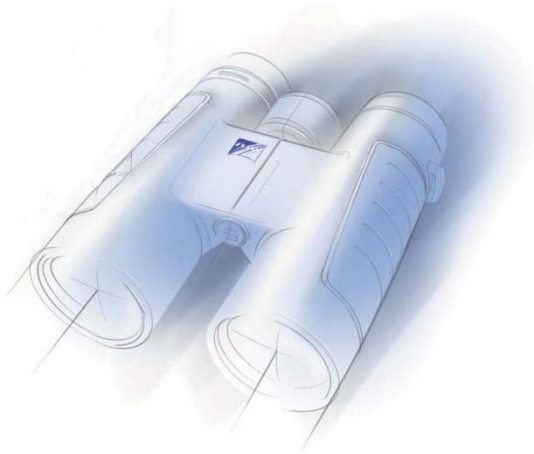
IMAGES
HD optics for clear and neutral colors

PRECISION
Robust, compact, light

DESIGN and ERGONOMICS
Easy-grip contour and easy operation

CONQUEST HD Binoculars
Differences to Conquest 40 line

- HD lens system with ED glass featuring extra-low dispersion (ED) for neutral, clear and crisp images
- Schmidt-Pechan prisms with dielectric mirror coating for 90% transmission
- LotuTec coating for clear vision



- Large fields of view for a wide overview
- Short close focus setting, e.g. to observe butterflies and other insects

- Lower weight
- Eyecups with click stops, removable

- Aluminum housing
- Made in Germany
- Price

CONQUEST HD Binoculars
Competitors

Vortex

Kahles

Steiner

Minox

Leupold

Nikon

Pentax

Meopta

Docter

CONQUEST HD Binoculars
Technical data

	CONQUEST HD 8 x 42	CONQUEST HD 10 x 42
Exit pupil	5,25 mm	4,2 mm
Twilight factor	18,3	20,5
Field of view at 1000 m	128 m	115 m
Apparent FoV	59 °	66 °
Close focus	2 m	2 m
Eye relief	18 mm	17 mm
Interpupillary distance	54 - 76 mm	54 - 76 mm
Length *)	155 mm	155 mm
Width **)	120 mm	120 mm
Weight	750 g	750 g

*) Eyecups in

**) Interpupillary distance: 65 mm

Housing material	Aluminium
Armouring	Rubber
Prism system	Schmidt-Pechan
Optics concept	HD concept with ED glass
Coatings	T* LotuTec Dielectric mirror Phase correction
Transmission	ca. 90 %
Waterproof	upt to 4 m
Nitrogen filled	yes

CONQUEST HD Binoculars
Scope of delivery

- **Cordura bag**
  with carrying strap and belt loop
  (No. 1976-008)
- **Neopren carrying strap**
  (No. 52 91 19)
- **Eyepiece cover**
  (No. 52 92 30)
- **Objective cover**
  (No. 52 92 31)

CONQUEST HD Binoculars
Accessories

- **Air Cell Comfort carrying strap**
  (No. 52 91 13)
- **Mono 3 x 12**
  (No. 52 20 12)
- **Adapter for 3 x 12 Mono**
  (No52 83 77)
- **Tripod adapter Binofix**
  (No. 52 83 87)
- **Tripod Alu**
  (No. 1778-480)
- **Tripod Carbon**
  (No.1793-996)

New Packaging

Safe Protection

Atractive Presentation

Eco friendly Materials

New Packaging

Agenda

1	The Company Carl Zeiss
2	Innovations for modern Optics
3	The CONQUEST HD Binoculars
4	The VICTORY HT Binoculars
5	The VICTORY HT Riflescopes

VICTORY HT Binoculars

VICTORY HT Binoculars
Brightest images and easy-to-use design

Carl Zeiss developed the principle of anti-reflective coating in 1935 and repeatedly sets new standards for extreme light transmission.
The new VICTORY HT **"High Transmission"** binoculars build on this tradition and have set a further milestone with transmission values of 95%.

The easy-grip design and reliable operation live up to the legendary **ease of use** of the Dialyt hunting binoculars.

The VICTORY HT 8 /10 x 42 replace the existing Victory 7 / 8 /10 x 42 T* FL

VICTORY HT Binoculars
The HT concept

An optical concept is more that simply replacing single elements with other materials.
It is the comprehensive implementation of key features to benefit the user.

The HT binoculars concept is an enhancement of the FL concept on which it builds

1. It contains all benefits and properties associated with the term "FL": outstanding image quality known for high detail resolution, crisp edges and high contrast
2. Furthermore, it features light transmission unparalleled on such complex roof prism binoculars

VICTORY HT Binoculars
Technical requirements for 95% light transmission

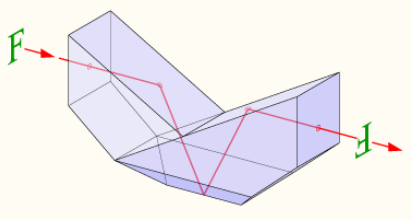
The new technology and namesake is the **HT glass from SCHOTT.** When light passes through, the loss in the new glass is considerably reduced, which is particularly noticeable at the blue end of the spectrum. This leads to a visible increase in brightness in the twilight.

The **ZEISS T* multi-coating** is still the decisive factor for light transmission on complex systems. It was and continues to be modified and optimized.

The prism is a central element of binoculars. The **Abbe-König System** is ideal because it works without additional (light-suppressing or extremely elaborate) mirrors.

Light has to travel a long way in a prism. As with the lens elements, these glass blocks are also made of the new HT glass.

SCHOTT



Result = 95% light

VICTORY HT Binoculars
Optics

Unparalleled 95% light transmission

- New HT glass from SCHOTT
- Abbe-König prism system without loss due to reflections
- T* multi-coating on all glass-air surfaces

Maximum contrast, image clarity and resolution

- FL concept with fluoride glass
- Phase-correction coating on the prisms
- LotuTec coating on the exterior lens element surfaces

VICTORY HT Binoculars
Design and use

Prefect ease of use

- Easy-grip contours
- Comfort Focus concept for fast and reliable focusing.
- With and without gloves
- Individually adjustable eyecups with click stops (removable)

VICTORY HT Binoculars
Mechanics and precision

Robust and durable mechanical parts

- Rubber-armored magnesium housing
- Double-link bridge
- Water proof and nitrogen filled

Wide range of use

- Large wide-angle fields of view for a wide overview
- Extremely short near range setting of less than 2 meters for insect observations

VICTORY HT Binoculars
Overview

IMAGE BRIGHTNESS

HT glass and outstanding 95% light transmission

DESIGN and ERGONOMICS

Perfect operation and relaxed focusing

PRECISION

Robust metal housing with precise and durable double-link bridge

VICTORY HT Binoculars
Competitors

VICTORY HT Binoculars
Technical data

	VICTORY HT 8 x 42	VICTORY HT 10 x 42
Exit pupil	5,25 mm	4,2 mm
Twilight factor	18,3	20,5
Field of view at 1000 m	136 M	110 M
Apparent FoV	62 °	63 °
Close focus	1,9 m	1,9 m
Eye relief	16 mm	16 mm
Interpupillary distance	54 - 76 mm	54 - 76 mm
Length *)	160 mm	160 mm
Width **)	128 mm	128 mm
Weight	785 g	795 g

*) *Eyecups in*

**) *Interpupillary distance: 65 mm*

Housing material	Magnesium
Armouring	Rubber
Prism system	Abbe-König
Optic concept	HT concept with HT glasses and FL glasses
Coatings	T* LotuTec Phase correction
Transmission	ca. 95 %
Waterproof	up to 5 m
Nitrogen filled	yes

VICTORY HT Binoculars
Scope of delivery

- **Cordura bag**
  with carrying strap and belt loop
  (No. 1976-008)
- **Neopren carrying strap**
  (No. 52 91 19)
- **Eyepiece cover**
- **Objective cover**

VICTORY HT Binoculars
Accessories

- **Air Cell Comfort carrying strap**
  (No. 52 91 13)
- **Mono 3 x 12**
  (No. 52 20 12)
- **Adapter for 3 x 12 Mono**
  (No52 83 77)
- **Tripod adapter Binofix**
  (No. 52 83 87)
- **Tripod Alu**
  (No. 1778-480)
- **Tripod Carbon**
  (No.1793-996)

Agenda

VICTORY HT Riflescopes

On the market for riflescopes, ZEISS Victory HT will be synonymous with a new standard.

Victory HT means: Unparalleled light reserves deep in the twilight combined with the world's finest illuminated dot for a new level of shot accuracy.

Everything with a sleek, user-friendly design, with and without rail.

A new BDC+ system for even more accurate shots at long range is available for the HT models.

The VICTORY HT riflescopes replace the Victory Varipoint models.

Varipoint iC models are unaffected by this.

VICTORY HT Riflescopes
Technical requirements for 95% light transmission

The key technology and namesake is the **HT glass from SCHOTT.** When light passes through, the loss in the new glass is considerably reduced, which is particularly noticeable at the blue end of the spectrum. This leads to a visible increase in brightness in the twilight.

The **ZEISS T* multi-coating** is still the decisive factor for light transmission on complex systems. It was and continues to be modified and optimized.

The glass-less and thus **loss-free reticle technology with illuminated dot** was further enhanced and is now used on the VICTORY premium riflescopes. Two air-glass transitions have been eliminated.

Result = 95% light

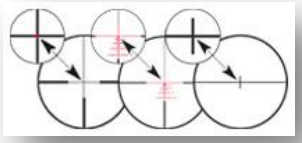
VICTORY HT Riflescopes
Optics

The brightest from Carl Zeiss

- HT glass material from SCHOTT
- Optimized T* coating
- Glass-less and thus loss-free do reticle
- LotuTec coating

Finest illuminated dot

- Sharp contours and precise
- finely dimmable, extremely bright
- Glass conductor technology



VICTORY HT Riflescopes
Design and use

Ergonomic design for clear operation

- Third knob on side for intuitive configuration of dot brightness

Compact and sleek design

- Low profile, no structures on eyepiece

VICTORY HT Riflescopes
Mechanics and precision

Sturdy and long lasting

- Robust aluminum housing
- Hard anodized coating
- Recoil-proof
- Watertight and dust-proof
- Nitrogen-filled
- Ring and rail assembly

Perfect long-distance shots

- BDC+ for accuracy at long range
- Rapid-Z long-range reticle
- Extended elevation adjustment range

VICTORY HT Riflescopes
Overview

IMAGE BRIGHTNESS

Outstanding light reserves and transmission through new HT glass from SCHOTT

ILLUMINATED DOT

Extremely fine and precise dot for use deep in the twilight and bright sunlight

DESIGN and ERGONOMICS

Sleek design and intuitive operation

The VICTORY HT Models
24 and 42 mm

VICTORY HT 1.1–4x24

With an exit pupil of just 14.8 mm at the lowest magnification setting and a 38 mm field of view at 100 m, the smallest of the VICTORY HT models delivers an enormous overview and enables extremely fast target acquisition. It is ideal for drive hunts when decisions have to be made in matter of seconds. Reticles 54 (new) and 60.

VICTORY HT 1.5–6x42

Its compact size, low weight and low profile make the VICTORY HT 42 model a perfect, universal companion for drive hunts, thick brush and stalking game. The image of this model in the twilight is amazing.

The VICTORY HT Models
50 and 56 mm

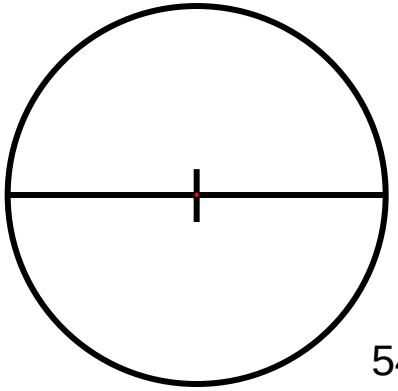
VICTORY HT 2.5–10x50

A slim appearance despite a lens diameter of 50 mm, compact and universal. For long-range shots in open terrain (with BDC+ or Rapid-Z5) up to sitting game in the twilight with vital light reserves.

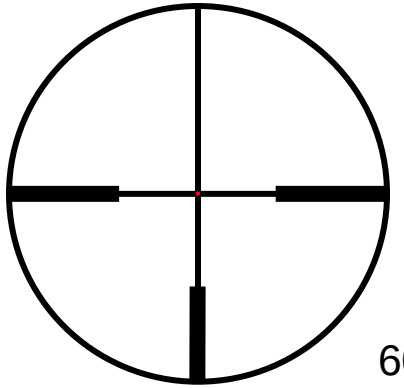
VICTORY HT 3–12x56

The unlimited specialist for the twilight has been further enhanced by the HT concept. Long-range shots at 12x magnification are even more exact and precise thanks to the BDC+ solution.

The VICTORY HT Reticles
Three reticles in the second image plane



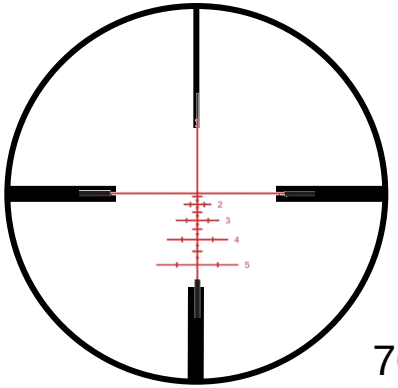
54



60

Day and night illuminated dots

- Bright light for drive hunts in bright daylight
- Dimmable for the last light of the day for sitting game in the twilight
- World's finest illuminated dot, diameter at 100 m in each case "6.6 cm/magnification." This is 0.55 cm at 12x.
- Glass-less and thus loss-free, light guide



76

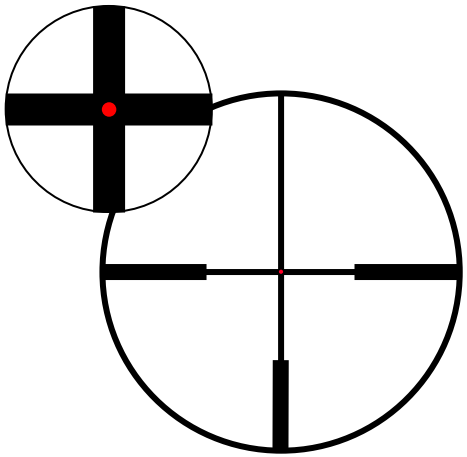
Rapid-Z5 long-range reticle

- Markings up to 500 m
- Adjusted to ballistics through magnification

The VICTORY HT Reticles
No. 60

Reticle 60	1,1 x	1,5 x	2,5 x	4 x	6 x	10 x	12 x
Diameter dot	6	4,4	2,6	1,7	1,1	0,7	0,6
Lines	9	6,4	3,8	2,4	1,6	1,0	0,8
Bars	39	29	17	11	7	4,3	3,6
Opening	764	560	336	210	140	84	70

Subtensions in cm at 100 m



VICTORY HT

1,1 - 4 x 24
1,5 - 6 x 42
2,5 - 10 x 50
3 - 12 x 56

Second image plane

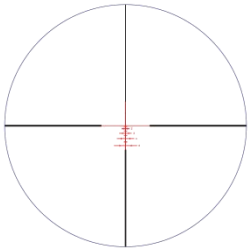
The VICTORY HT Reticles
No. 76 (Rapid Z5)

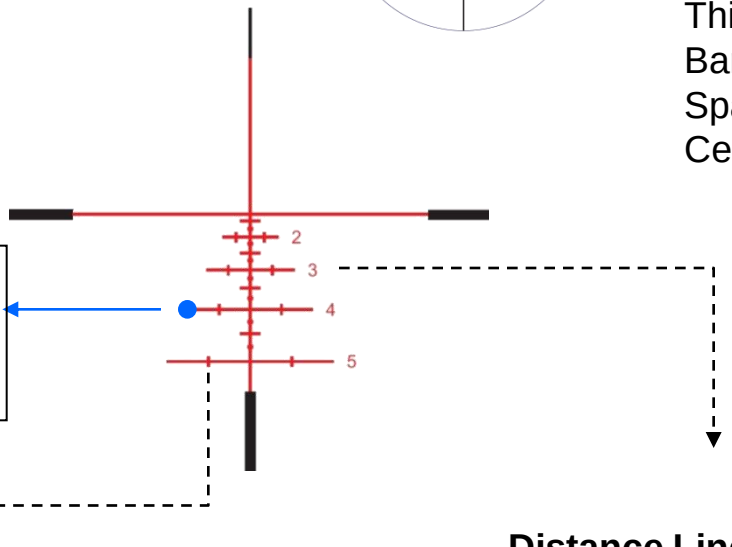
VICTORY HT

2.5 - 10 x 50
3 - 12 x 56

2. Image plane

Rapid Z5 (76)





Example:
Aiming point for 400 m.
Cross wind from right
5 m / sec = 18 km / h.

Markings for cross wind compensation.
Wind speed 2.5 m / sec and 5 m / sec.

Subtensions S
with **M = 10 x (2.5-10x50)**
with **M = 12 x (3-12x56)**
in cm at 100 m

Thin lines:	0,5 cm
Bars:	2 cm
Space between bars:	70 cm
Center to line 3:	11 cm
	(= 33 cm at 300 m)

Distance Lines for 100 m until 500 m with markings in between. Precondition: Sighted-in at **100 m** and the correct magnification, due to the ammunition.

The Rapid-Z System
Basic idea

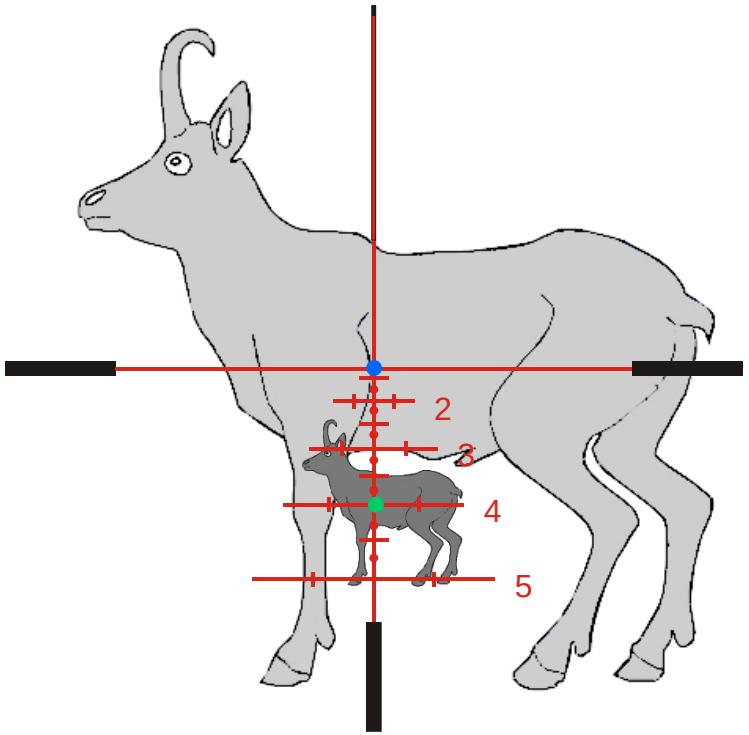
The fastest solution for remaining on target at long range and reliably incorporating the fall of shot directly based on the ballistic reticle.

- No calculation, click counting or estimated aiming above the target!
- **Adjustment to the ballistics** via the scaling on the ballistic reticle, i.e. via the magnification.

1. **Measure or estimate range.**
2. **Remain on target with the corresponding distance line!**

Rapid Z5 with

100 m Distance ●
400 m Distance ●



The Rapid-Z System
The right magnification by an online calculator

RAPIDZ® - Rechner für Standardmunition

ZEISS

Zurück zur Startseite

Angaben zu Ihrem ZEISS - Zielfernrohr, Ihrer Waffe und Munition

Zielfernrohr: Victory Diavari 2,5-10x50 T*, Rapid-Z 5

Visierhöhe: 55 mm

Kaliber: .270 Winchester

Laborierung: Blaser (RUAG), CDP, 130 grs (8,4 g)

Optionale Angaben zu Ihrem Jagdgebiet

Mittlere NN-Höhe: m

Temperatur: °C

Maßeinheiten: metrisch

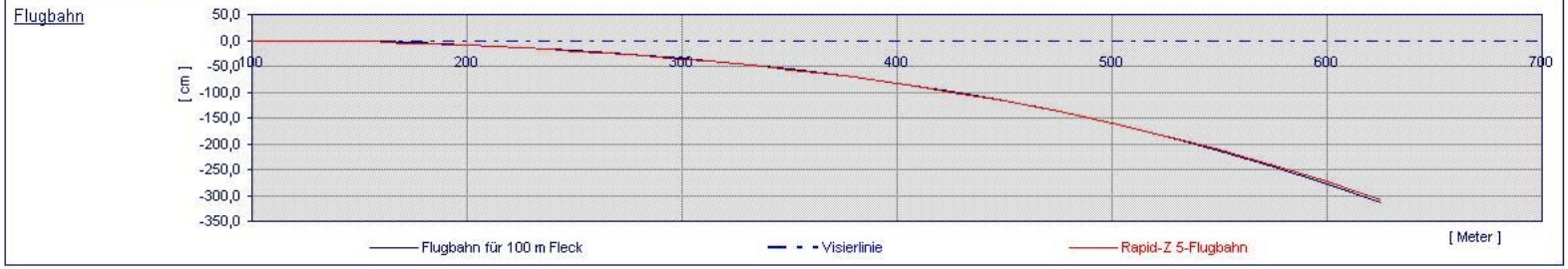
Ballistischer Koeffizient (BC): 0,307

Hilfe

Absehen: Rapid-Z 5

Stellen Sie bitte Ihr Zielfernrohr auf Vergrößerungsstufe: 9 und schießen die Waffe auf 100 Meter Fleck ein.

Entfernung: [m]	100	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
Geschwindigkeit: [m/s]	846	796	772	749	726	703	681	659	637	616	596	576	556	536	517	499
Geschoßenergie: [J]	3012	2671	2513	2362	2218	2081	1951	1828	1711	1600	1495	1395	1301	1212	1128	1049
Geschoss-Flugbahn: [cm]	0,0	-2,2	-4,7	-8,3	-12,9	-18,7	-25,8	-34,1	-43,9	-55,2	-68,0	-82,6	-99	-117	-138	-161
Rapid-Z 5-Flugbahn: [cm]	0,0	-2,2	-5,6	-10,0	-14,4	-21,1	-27,8	-36,7	-45,6	-56,7	-68,9	-83,3	-100	-118	-138	-161
Rapid-Z - Haltelinie:	1			2				3				4				5
Abweichung: [cm]	0,0	0,0	0,8	1,7	1,5	2,4	2,0	2,5	1,7	1,5	0,8	0,7	1	0	0	0



ASV - Bullet Drop Compensation
Fast and easy – two versions now available

With the ASV and ASV+ bullet drop compensators, Carl Zeiss now offers a simple and reliable solution to compensate for the fall of shot.

1. **Measure or estimate range.**
2. **Set the ASV to the range.**
3. **Remain on target!**

- **No calculation, click counting** or estimated aiming above the target!
- **Adjusted for the ballistics** via different scales (sticker or metal ring).
- **Automatic locking** to prevent accidental adjustments while aiming the weapon.
- Defined **stop at 100 m** setting.

ASV setting of "2" = 200 m

The new ASV+ for VICTORY HT
Interchangeable metal ring, more precise graduation

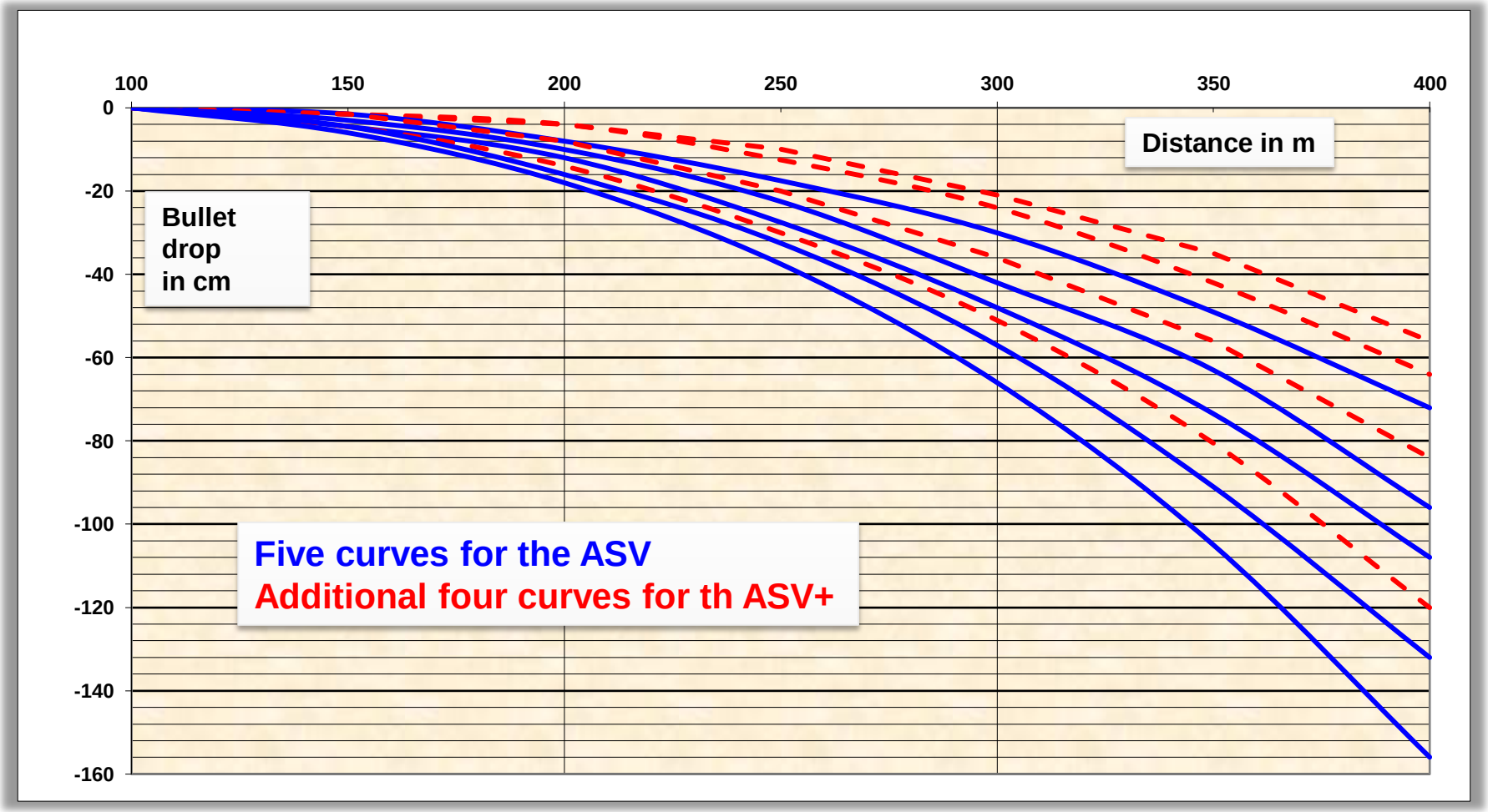
The new BDC+ system is just as easy and reliable to use, including automatic locking, as the existing BDC.

The differences

- The new BDC+ provides 9 ways to select the right trajectory.
  The BDC only offers 5.
- The distance rings are interchangeable metal rings. Until now they were stickers.
- Nine interchangeable distance and one linear ring are included.
- The wheel features easy-grip rubber armoring.

Can be retrofitted on existing Classic and Victory models.

The new ASV+ for VICTORY HT
Precise graduation



VICTORY HT Riflescopes
Technical data I

	1,1-4x24	1,5-6x42	2,5-10x50	3-12x56
Effective objectiv	16,3 - 24 mm	23 - 42 mm	38 - 50 mm	44 - 56 mm
Exit pupil	14,8 - 6 mm	15 - 7 mm	15 - 5 mm	15 - 4,7 mm
Twilight factor	3,1 - 9,8	4,2 - 15,9	7,1 - 22,4	8,5 - 25,9
Field of view at 100 m	38 - 10,5 m	24,8 - 6,9 m	14,8 - 4,1 m	12,5 - 3,5 m
Angle of view	21,5 - 6,0 °	14,1 - 4,0 °	8,5 - 2,3 °	7,2 - 2,0 °
Dioptre setting	-4 / +2 dpt	-4 / +2 dpt	-4 / +2 dpt	-4 / +2 dpt
Eye relief	90 mm	90 mm	90 mm	90 mm
Elevation adjustment	300 cm	230 cm	140 cm	120 cm
Click adjustment at 100 m	1 cm	1 cm	1 cm	1 cm
Parallax free at	100 m	100 m	100 m	100 m
Illuminated reticles	54 - 60	60	60 - 56	60 - 56
Non-illuminated reticles	-	-	-	-
Reticle in image plane	2	2	2	2

VICTORY HT Riflescopes
Technical data II

	1,1-4x24	1,5-6x42	2,5-10x50	3-12x56
Tube diameter	30 mm	30 mm	30 mm	30 mm
Eyepiece diameter	42 mm	42 mm	42 mm	42 mm
Front diameter	30 mm	48 mm	56 mm	62 mm
Waterproof	4 m	4 m	4 m	4 m
Nitrogen filled	yes	yes	yes	yes
LotuTec and T* coating	yes	yes	yes	yes
Temperature range	-25 / 50 °	-25 / 50 °	-25 / 50 °	-25 / 50 °
Length	289 mm	331 mm	321 mm	347 mm
Weight (without rail)	440 g	513 g	525 g	573 g
Weight (with rail)	465 g	538 g	550 g	598 g

HighTech Optics
Glasses

Materials

- „Normal“ Glass
- **ED-Glass**
  ED = Extra low dispersion
  In CONQUEST HD
- **FL-Glass**
  FL = Fluoride containing
  In Victory FL, Victory RF und VICTORY HT binoculars
- **HT-Glass**
  HT = High Transmission
  In VICTORY HT binoculars and riflescopes

SCHOTT

The maximum permissible deviations lie in the 25 nm range, i.e. one two-thousandths of a human hair (approx. 0.05 mm thick).

HighTech Optics
Prisms and coatings

Porro-Prisms

Roof-Prisms

- **Schmidt-Pechan-Prism**
  - With silver mirror (loss of light)
  - With dielectric mirror (brighter)
- **Abbe-König-Prism**
  (no mirror needed, brightest roof-prism)

Coatings

- **T* Coating** (all surfaces multicoated, individually coating design for the glasses)
- **LotuTec** (repelling layer for all Victory and CONQUEST HD products)
- **Phase correction** (for better details on all ZEISS roof-prisms)
- **Dielectric mirror** (on Schmidt-Pechan-prisms for Victory and CONQUEST HD binos)

We make it visible.