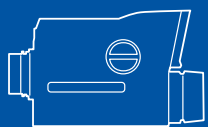


Observe and Photograph. Simultaneously.

The new dimension in nature observation.



Camera-Eyepiece DC4



We make it visible.



The most beautiful observations should be captured. Directly.

Using the first eyepiece in the world with integrated digital camera for the ZEISS Diascope.

"I have already observed the nuthatch several times with my ZEISS Diascope. The mobility of the bird meant that it took several attempts to keep the bird within my field of view. Today, I will try to photograph it".

Since the bird is very shy and really quite small, format-filling photos cannot be taken with a normal camera. However, with the new Camera-Eyepiece DC4, I am not only able to

thoroughly observe it; I can also take digital pictures with a super-tele focal lens. I observed how the nuthatch climbs headfirst down the tree trunk; the bird is out of my field of view. I have to look for it again and refocus. Suddenly, the bird is standing still! While I watch this fascinating scene, I adjust the focal lens again and then take a picture by pushing the button on the remote control. The display reveals: a unique picture.



Unrivalled and innovative.

Digiscoping is photography with a digital camera through a spotting scope, thus creating impressive pictures with a super-tele focal lens. A camera adapter is, however, needed and there are limitations when compared to classical photography. Until now.

Innovation:

With the first Camera-Eyepiece DC4 in the world for spotting scopes, Carl Zeiss expands the possibilities of digiscoping in a fascinatingly simple manner. The DC4 is an optical observation eyepiece with integrated digital camera for the ZEISS Diascope. Simultaneous observation and photography are now possible. Nature observation in perfection – concentrate on the detail and capture the picture at the right moment.

Simple operation:

The Camera-Eyepiece DC4 is mounted to the ZEISS Diascope just like a standard eyepiece, without adapter. Simply observe through the eyepiece, select the motive directly in the format frame and photograph the observed [image] digitally by pushing the button on the remote control.



Without magnification



Diascope 65 T FL + DC4 =
1,120 mm focal lens / 30x magnification*



Diascope 85 T FL + DC4 =
1,460 mm focal lens / 40x magnification*

Super-tele focal lens:

With the super-tele focal lens of up to 1,460 mm small picture format, format-filling pictures of the animal kingdom in the wild, but also fascinating close-up pictures with high detail recognition are possible. In addition, the 4 megapixel camera eyepiece impresses with its highly effective light intensity of 1:6.4.

Select the sectional view in the eyepiece



Capture motionless pictures by pushing the button on the remote control



The image result can be subsequently controlled in the LCD display.



Inner Values - Well Protected.

Simultaneous observation and photography is made possible thanks to its innovative setup: part of the incident light reaches into the observation eyepiece, the other part falls on the low-noise 4 megapixel CCD sensor. The latter is optimally adjusted to the ZEISS Diascope with the help of the high-quality DxO software. The integrated

DxO software provides for excellent picture results as far as sharpness, contrast and colour fidelity are concerned. The DC4 protects its innovative technology with the help of a rugged enclosed housing with solid rubber armouring. It is shockproof and impact resistant, sealed against spray water, and can easily be used during inclement weather.



Thanks to the innovative ZEISS camera eyepiece in combination with the high-quality DxO software, you are able to take superb photos with the 4 megapixel camera.



More comfort for more creativity.

Control via remote control:

With the remote control all camera functions can be selected quickly and easily. By using the remote control picture release, motionless photos are created.

The camera menu:

In order to produce perfect pictures, the camera menu offers numerous setting options:

- Illumination control ± 2 lens apertures
- Picture series function for up to 5 pictures
- Control of contrast and colour reproduction
- ISO sensitivity from 50 to 800
- File format TIFF or JPEG (in 3 quality grades)
- Automatic white-balance plus 5 selectable colour temperatures
- Selectable display languages: German/English

Additional software:

acdsee™8
Foto-Manager

The supplied ACDS[™] 8.1 Photo-Manager facilitates archiving, sorting and sending of pictures. The integrated picture processing software offers many options for professional picture design. It helps you to "let your creativity go wild".

Fascination Digiscoping



Ring-billed gull

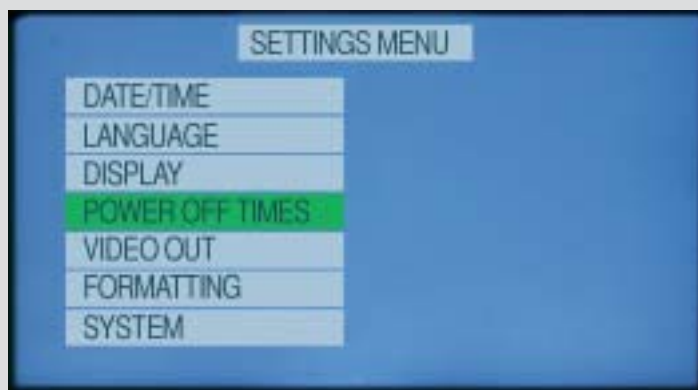


Tree sparrow

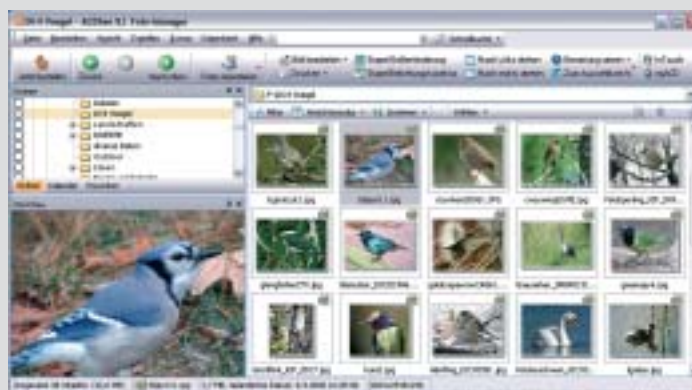


Weaver bird

Clearly structured menu-display



User screen of the
Photo-Management Software ACDS[™] 8.1



DC4 Delivery Scope

The DC4 is delivered standard with extensive accessories so that you may use the **camera eyepiece** as comfortably, reliably and safely as possible.

The following accessories are included in the delivery scope:

- Remote control with 2 batteries
- Software ACDS[™] 8.1: the Photo-Manager facilitates archiving, sorting and processing of the pictures
- Memory card: 128 MB SD storage medium
- Fast battery recharger with 4 batteries AA 2, 400 mAh with world plug set
- AV connection cable: to connect the DC4 to a TV in order to comfortably look at the pictures in larger version
- USB cable: for comfortable transfer of the pictures to a PC
- Cover: to safely and quickly cover the eyepiece and the bayonet
- Rugged Cordura pouch: to protect the DC4

Diascoping with the DC4 - innovative and yet fascinatingly simple:

- **Qualitatively very high-quality optical observation eyepiece with 40x magnification (with Diascope 85 T* FL) respectively 30x magnification (with Diascope 65 T* FL).**
- **Excellent pictures thanks to the elaborate 4 megapixel camera and DxO signal processing**
- **Comfortable observation and display window determination with optical eyepiece**
- **Impressive pictures of animals in the wild that are far away thanks to the excellent light intensity and super-tele focal lens.**
- **Picture control in 2.0" LCD-display**
- **Contact-free and thus motionless resolution via IR-remote control**





The Victory Diascope Series

The innovative Camera-Eyepiece DC4 was developed by ZEISS for the Victory Diascope. The spotting scopes enthrall with outstanding detail recognition, excellent contrast richness and brilliant

image quality. The optional tripod with its high stability and low-weight is ideal for extended observation tours with the Victory Diascope. With straight or angled viewing, the handy 65 T* FL or the extremely powerful 85 T* FL: each member of the Victory Diascope series is simply a class by itself.



Technical data in an overview:

		Camera-Eyepiece DC4	
		With Diascope 65 T* FL	With Diascope 85 T* FL
			
Eyepiece			
Magnification		30x	40x
Field of view	(m/1,000 m)	40	30
Exit pupil	(mm)	2.1	
Eye relief	(mm)	18	
Diopter compensation	-/+ (dpt)	-4/+4	
Length	(mm)	Ca. 185	
Max. width	(mm)	Ca. 65	
Max. height	(mm)	Ca. 105	
Weight incl. battery	(g)	Ca. 795 (with batteries and memory card)	
Leak tightness		Sealed against spray water	
Image sensor camera		1/1.8" CCD with 4 megapixel (ca. 9 mm diagonal)	
Width-to-height ratio		4 : 3	
Focal length	(mm)	230	300
Display window corresponds to KB-focal length (mm)		Ca. 1,120	Ca. 1,460
Shutter speed	(sec)	1/200 to 1/8	
Release delay	(sec)	Max. 0.9	
Largest lens aperture (photo-metric)		6.4	
Exposure metering		Centre weighted averaged metering	
ISO sensitivity		ISO 50/100/200/400/800 (automatic and manual)	
Illumination control		EV -2 up to +2 (1/3 steps)	
Series of photos		Up to 5 pictures	
White-balance		Automatic and manual (sunrise and sunset, artificial light, daylight, shade, fog)	
Storage medium		SD memory card (128 MB SD-card included in the delivery scope)	
File format		TIFF, JPEG TIFF, JPEG (3 compression steps)	
Power supply camera		2 x AA (LR06) high performance batteries with at least 2,400 mAh or line-powered	
Battery output		Ca. 1.5 hours continuous operation with 100 pictures Power-off and stand-by modes to extend operating time	
Power supply remote control		2 x AAA (LR03)	
Display		2,0" TFT-Farbdisplay ca. 154.000 Pixel	
Connections		USB 1.1 / Video output / power connection	
Delivery scope		Remote control with batteries, battery quick charger with 4 batteries and world plug set, SD card with 128 MB, video cable, USB cable, CD-ROM with software (ACDSee™ 8.1, Direct X*, Windows Media Player*)	
Order Number		52 80 31	
FL = Fluoride containing glasses		T* = ZEISS multi-coating	

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www.zeiss.de/sportsoptics

We reserve the right to modify design and delivery scope as a result of technical developments without notice
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