

# Digex

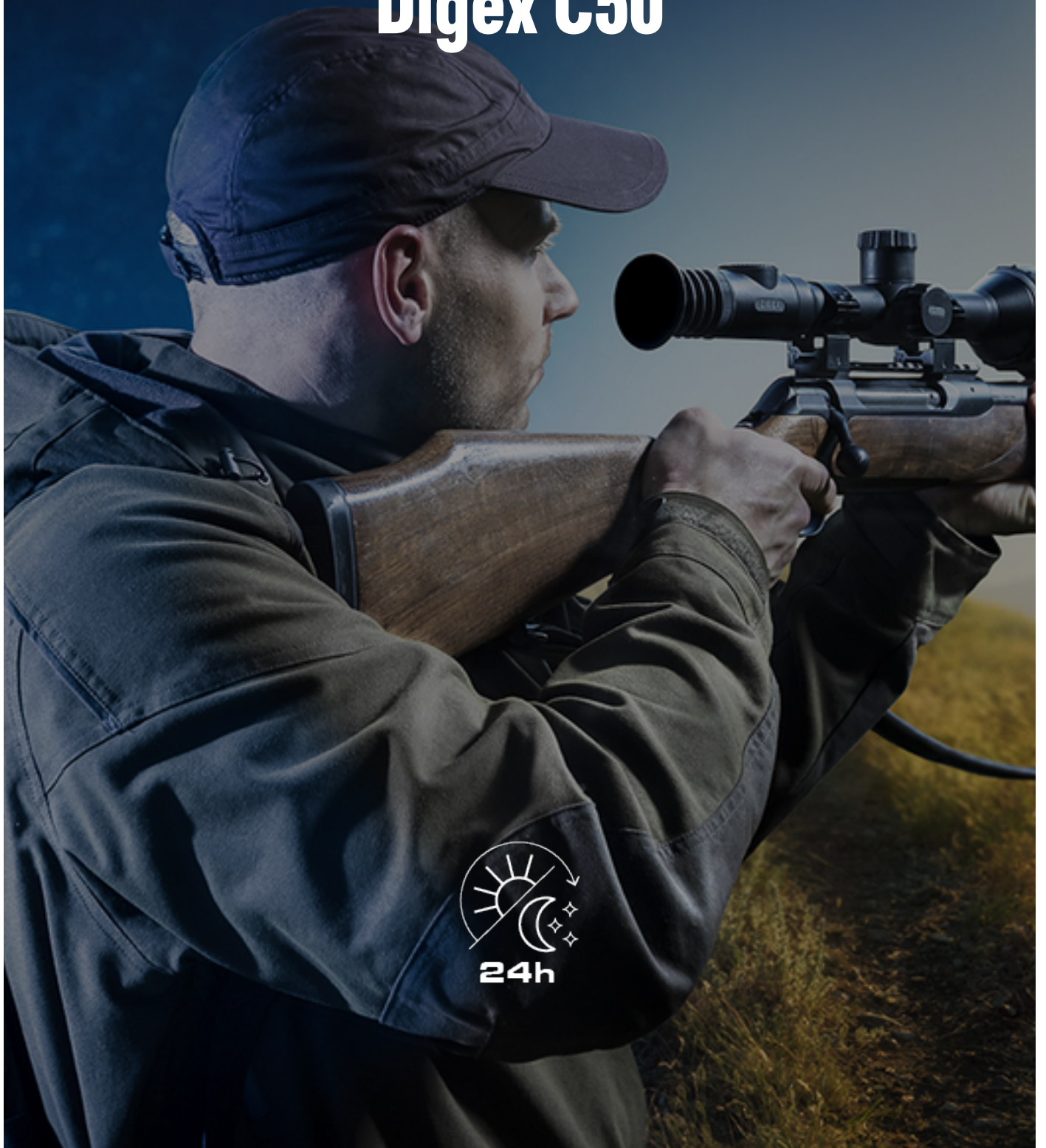
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# Colour the Darkness. Digex C50





## 24/7 use

The use of different lens and sensor operating modes guarantees the best results at any time of day. In the morning and at twilight, during the day and after midnight, the image is clear and detailed. The riflescope discerns game trophy qualities and peculiarities of behavior in Full HD resolution, providing the hunter with the maximum possible information to make the right decision and take a shot.





# Full-colour imaging from sunset till dusk in the Colour Twilight mode

In deep twilight, when the human eye is already unable to discern details of observed objects, the Digex C50 displays a bright image with correct colour rendering, prolonging hunting time into the night.



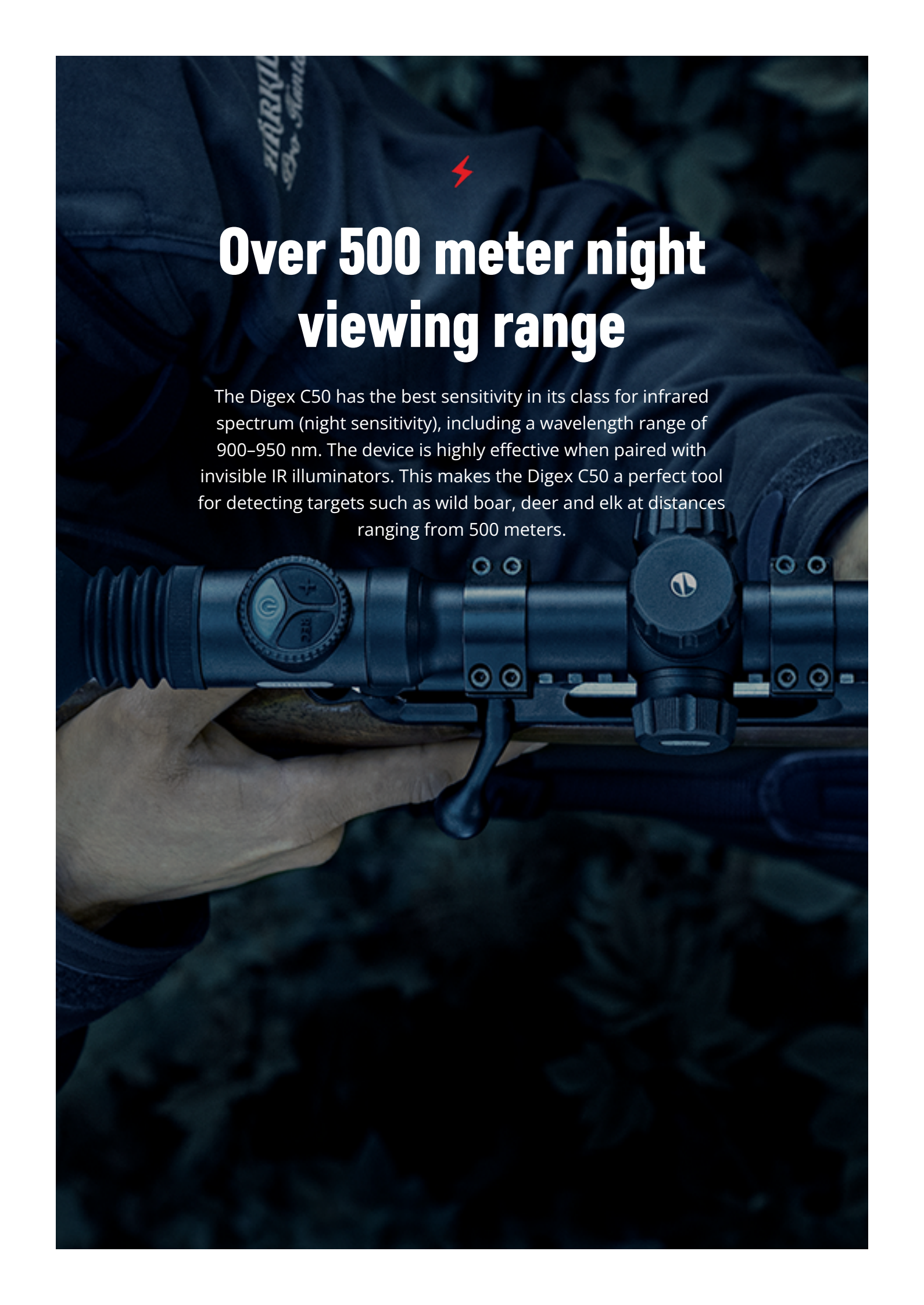




# Realistic daytime colour rendering

The Digex C50 combines the full-colour imaging of classic daytime optics with ultimate digital functionality. So conservative day hunting becomes high tech and a usual day sight is simply unnecessary.





# Over 500 meter night viewing range

The Digex C50 has the best sensitivity in its class for infrared spectrum (night sensitivity), including a wavelength range of 900-950 nm. The device is highly effective when paired with invisible IR illuminators. This makes the Digex C50 a perfect tool for detecting targets such as wild boar, deer and elk at distances ranging from 500 meters.



# Up to 10 hours of battery life on a single charge

The Digex C50 is powered with two rechargeable batteries: one built-in with a capacity of 4.9 Ah, the other replaceable with a capacity of 2 Ah. A single charge guarantees up to 10 hours of battery life, which covers the time of active use of the scope for a hunt. The embossment on the body of the replaceable battery for accurate determination of the correct position makes it possible to quickly and confidently replace a flat battery with a new one in complete darkness by touch.







# Stream Vision 2. WiFi integration with iOS and Android devices

The built-in WiFi module connects the device with either Android or iOS smartphones using the Stream Vision 2 mobile application. This combination opens up a wide range of options: wireless device software updates, real-time image transmission to the mobile device screen, remote control digital functions and much more. Users registered in the application are provided with cloud storage space for photos and videos taken with the device.





# **Classic design. Mounting on standard 30 mm rings**

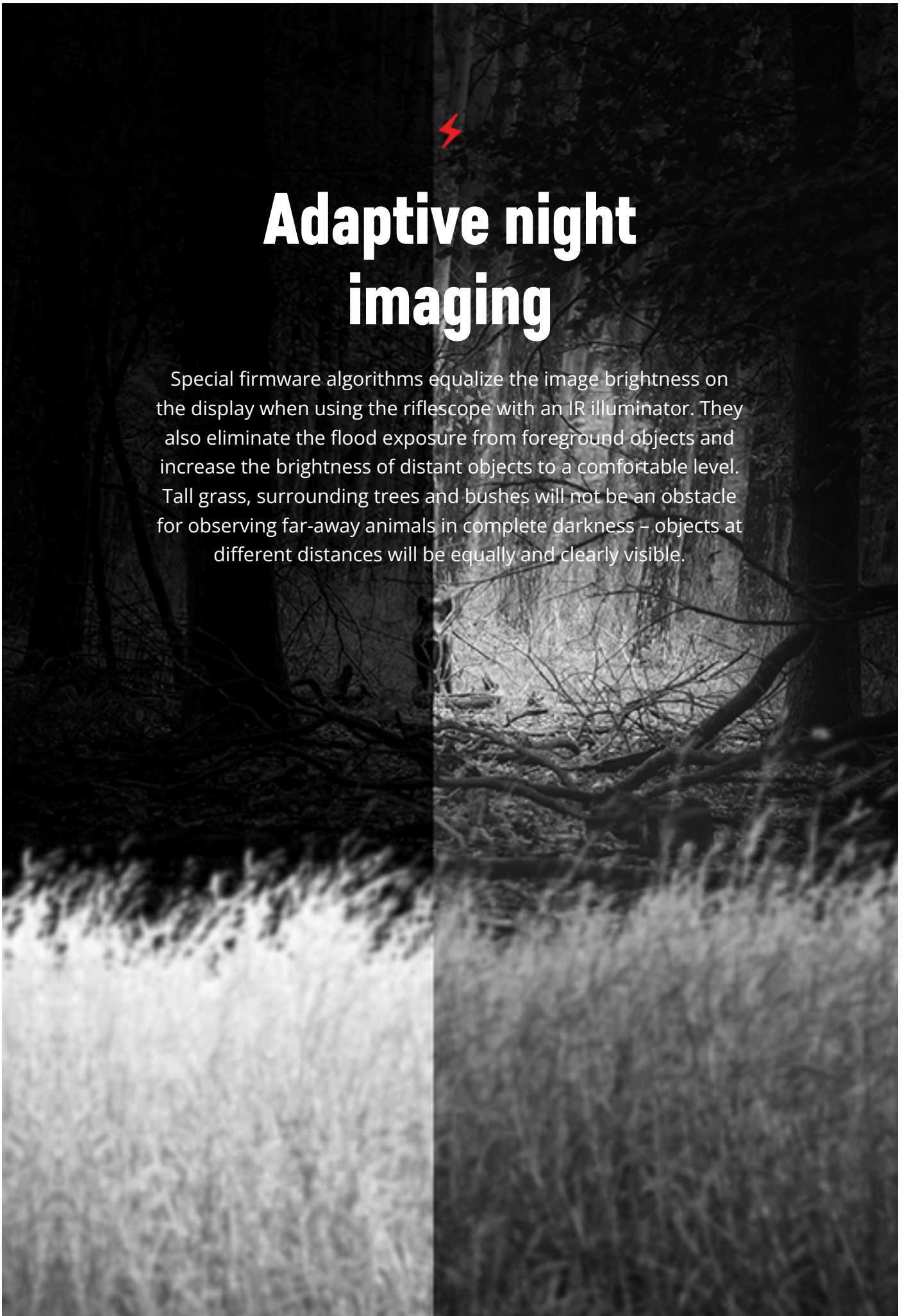
The Digex C50 offers visual aesthetics on any hunting weapon. From the outside the riflescope resembles a classic day sight in a 30mm housing. This form factor provides flexibility for mounting the scope on hunting weapons using proven ring solutions.





# Adaptive night imaging

Special firmware algorithms equalize the image brightness on the display when using the riflescope with an IR illuminator. They also eliminate the flood exposure from foreground objects and increase the brightness of distant objects to a comfortable level. Tall grass, surrounding trees and bushes will not be an obstacle for observing far-away animals in complete darkness – objects at different distances will be equally and clearly visible.



# Clear on target!



## 5 shooting profiles / 50 zeroing distances



The Digex C50 offers a choice of ten different reticles that vary in colour, configuration, and function – direct shot and ballistic, scalable (FFP) and non-scalable (SFP). Zeroing results are stored in five shooting profiles. Each profile can hold up to 10 zeroing distances.

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## High-precision aiming with the “Picture-in-picture” mode



The “Picture-in-picture” function enables the shooter to display a high-precision aiming frame. Occupying only 10% of the total display area, the frame contains an enlarged image of the target and a reticle, which provides the user with a more detailed image of the aiming area and gives visual control of the entire field of view.

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## High caliber recoil rated up to: .375H&H, 12 gauge and 9.3x64



Digex digital riflescopes are highly shock-resistant and can be used with rifled hunting weapons of calibers 9.3x64, .30-06, .300, .375H&H, etc., as well as with smooth-bore and pneumatic weapons.

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# Image. Quality



## Variable magnification from 3.5x to 14x



The base magnification of Digex C50 riflescopes increases fourfold – 3.5x to 14x. The zoom changes either gradually in 2x step or continuously to set the ideal ratio of magnification and visible field of view for specific conditions. The high resolution sensor guarantees the possibility of accurate aiming and long-range shots over the entire magnification range – the level of detail is sustained even at maximum magnification.

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## High contrast HD AMOLED display



1024x768 HD AMOLED display has enhanced color rendering, power saving, a high contrast image and quick-response, providing clear and smooth images for on-the-move observation or in cold conditions.

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## SumLight enhanced sensitivity software



The SumLight function increases sensor sensitivity which enables passive observation (without IR illuminator) in low light conditions and at night. The software automatically activates algorithms (such as adding adjacent pixel signals of a sensor, frame addition), thus increasing



the sensitivity of the device while maintaining image quality.

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## Wide-angle eyepiece for comfortable observation



The wide-angle eyepiece (29.5°) and wide viewing angle of the HD quality AMOLED display provide comfortable image perception and the absence of the keyhole effect with safe removal of the exit pupil of 50mm. Observation with the Digex C50 does not strain your eyes and enables the hunter fully concentrate on the hunting process.

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# Rugged. Reliable. Functional



## Photo and video recording



Upgrade usual night video recording to the new experience of full-Colour recordings for day and night hunts. All it takes to take a photo or start recording is a touch of a button.

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## Remote firmware update



A smartphone, the free mobile application Stream Vision 2 and Internet access is all that's needed to check updates and install new firmware. Updates with bug fixes and new functions are implemented into the riflescope used by the hunter with no need to send it for repair.

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## Operating temperatures: from -25 to +50°C



Digex riflescopes are designed to operate in a wide range of temperatures (-25 to +50°C). The frost-resistant AMOLED display features a quick response rate and ensures a crisp image when viewing fast moving objects.

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## Completely waterproof IPX7



With an IPX7 waterproof rating, the Digex riflescopes work in conditions of high humidity and heavy rain and can withstand half an hour immersion in water to a depth of 1 meter.

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## Instant Start-up



Just 3 seconds from the moment you press the power button the Digex C50 is completely ready for work.

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NEW

Digital Day & Night Vision Riflescope

# DIGEX C50





# Specifications



**Digex C50 (w/o Wi-Fi)**



**Digex C50 (w/o Wi-Fi; with Digex-X850S IR Illuminator)**



**Digex C50 (w/o Wi-Fi; with Digex-X940S IR Illuminator)**

## Main

Sensor	CMOS FHD 1928x1088	CMOS FHD 1928x1088	CMOS FHD 1928x1088
Magnification, x	3.5 – 14 (x4 zoom)	3.5 – 14 (x4 zoom)	3.5 – 14 (x4 zoom)
IR Illuminator wavelength, nm	IR not included	850	940 (invisible)
IR Optical power, mW	-	up to 800	up to 700
Detection range, m	500 (with IR 940 nm) / 550 (with IR 850 nm)	550	500

## Sensor

Type	FHD CMOS	FHD CMOS	FHD CMOS
Resolution, pixels	1928x1088	1928x1088	1928x1088

## Optics

Objective lens	F50/1.4	F50/1.4	F50/1.4
Magnification, x	3.5 – 14	3.5 – 14	3.5 – 14
Field of view (HxV), degrees / m @ 100 m	6.7x5 / 11.7x8.8	6.7x5 / 11.7x8.8	6.7x5 / 11.7x8.8

Eye relief, mm	50	50	50
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## Display

Type	AMOLED	AMOLED	AMOLED
Resolution, pixels	1024x768	1024x768	1024x768

## Infrared Illuminator

Model	-	Digex-X850S IR Illuminator (79079)	Digex-X940S IR Illuminator (79078)
Emitter	-	LED	LED
IR wavelength, nm	-	850 (long-range)	940 (invisible)
IR Optical power, mW	-	800	700
IR spot position adjustment	-	yes	yes

## Range Performance

Detection range, m	500 (with IR 940 nm ON) / 550 (with IR 850 nm ON)	550 (IR Illuminator ON)	500 (with IR Illuminator ON)
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## Laser Rangefinder

Safety class for laser equipment according to IEC 60825-1:2014	-	-	-
Wavelength, nm	-	-	-
Max. measuring range, m	-	-	-
Measurement accuracy, m	-	-	-

## Reticle

Click value, H/V, mm at 100 m	11 / 11	11 / 11	11 / 11
Click range, H/V, mm at 100 m	2200 / 2200	2200 / 2200	2200 / 2200
Number of preloaded reticles	10	10	10

## Video Recorder

Video / photo resolution, pixel	1024x768	1024x768	1024x768
Video / photo format	.mp4 / .jpg	.mp4 / .jpg	.mp4 / .jpg
Built-in memory, GB	16	16	16

## Wi-Fi

Wireless Protocol	Wi-Fi is not available	Wi-Fi is not available	Wi-Fi is not available
Wireless Standard	-	-	-
Frequency, GHz	-	-	-

## Environmental Characteristics

Degree of protection, IP code (IEC60529)	IPX7 (waterproof)	IPX7 (waterproof)	IPX7 (waterproof)
Operating temperature range, °C	-25 – +50	-25 – +50	-25 – +50

## Connections and Compatibilities

Max. recoil power on rifled weapon (Eo), Joules	6000	6000	6000
Shock resistance on the smooth-bore rifles, caliber	12	12	12
Compatible mounts	Standard 30 mm rings	Standard 30 mm rings	Standard 30 mm rings
Supported Application	Stream Vision 2	Stream Vision 2	Stream Vision 2

## Power Supply

Output voltage, V	3.0 – 4.2	3.0 – 4.2	3.0 – 4.2
Battery type	Dual Li-Ion B-Pack Mini Power System: 2 A·h Changeable Battery (external) / 4.9 A·h Battery (internal)	Dual Li-Ion B-Pack Mini Power System: 2 A·h Changeable Battery (external) / 4.9 A·h Battery (internal)	Dual Li-Ion B-Pack Mini Power System: 2 A·h Changeable Battery (external) / 4.9 A·h Battery (internal)
Capacity, mAh	2000 (external) + 4900 (internal)	2000 (external) + 4900 (internal)	2000 (external) + 4900 (internal)
Operating time on battery pack (at t=22°C), h *	10	10	10

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External power supply, V	5 (USB Type C)	5 (USB Type C)	5 (USB Type C)
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## Weight & Size

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Body material	Aluminum alloy	Aluminum alloy	Aluminum alloy
Dimensions, mm	408x78x83	408x78x83	408x78x83
Weight, kg	1.15	1.345 (with the IR-illuminator)	1.345 (with the IR-illuminator)

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## Trade Data

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SKU (Model #)	76635A	76635AL	76635AI
Status	production	production	production

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Digital Riflescopes

# DIGEX





# Over 500 m nighttime viewing range

Combination of best nighttime sensitivity in its class, HD resolution display and sensor, wide selection of brightness and contrast settings, quality fast optics, high magnification and a powerful built-in IR for a moonless night make the Digex a perfect tool for detecting such targets as a wild boar, deer or elk at distances ranging from 450 to 550 meters.







# All-Metal Housing

The metal housing of the riflescope is rugged and light at the same time. The antiwear coating will keep Digex's decent external look for years of use.





# Integrated video and sound recorder

Digex riflescopes feature a built-in recorder to capture still images and HD quality videos with sound. Footage can be transferred to PC/laptop or mobile device via a wired connection or via Wi-Fi.







# HD-sensor

The highly sensitive 1280x720 HD CMOS sensor ensures that Digex delivers a high definition image with precise detail rendering.

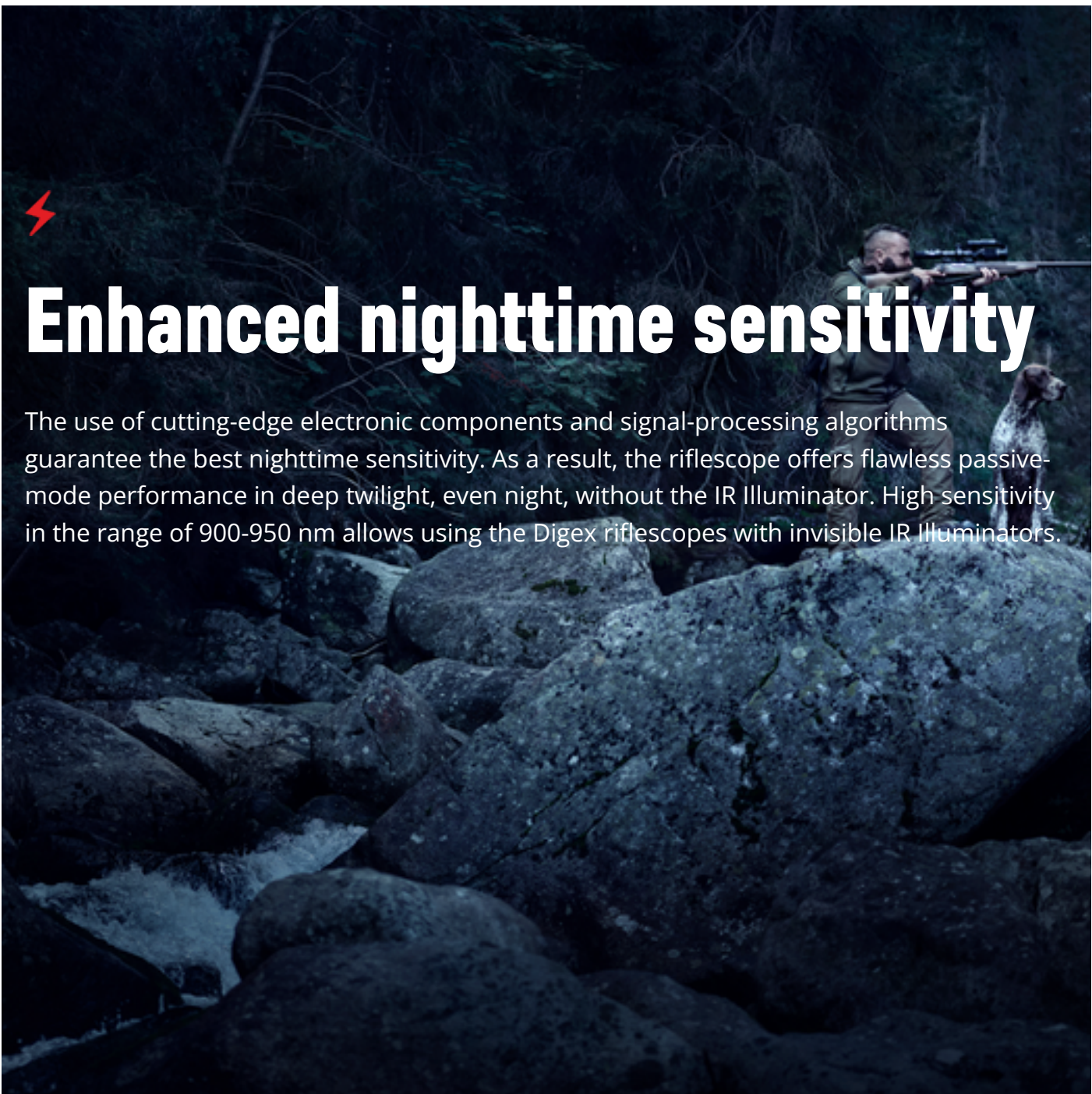
# HD





# Enhanced nighttime sensitivity

The use of cutting-edge electronic components and signal-processing algorithms guarantee the best nighttime sensitivity. As a result, the riflescope offers flawless passive-mode performance in deep twilight, even night, without the IR Illuminator. High sensitivity in the range of 900-950 nm allows using the Digex riflescopes with invisible IR Illuminators.





# Easy Mounting on a Rifle

The middle part of the Digex body is a 30 mm tube, standard for daylight optical sights. This form-factor enables the Digex to be flexibly mounted on various types of hunting weapons using proven solutions.







# 4x-16x Variable Magnification

The base magnification of Digex N455 increases by four times – from 4x to 16x. The zoom changes either gradually in 2x step or continuously for a truly optimum, customized field of view for specific situation.



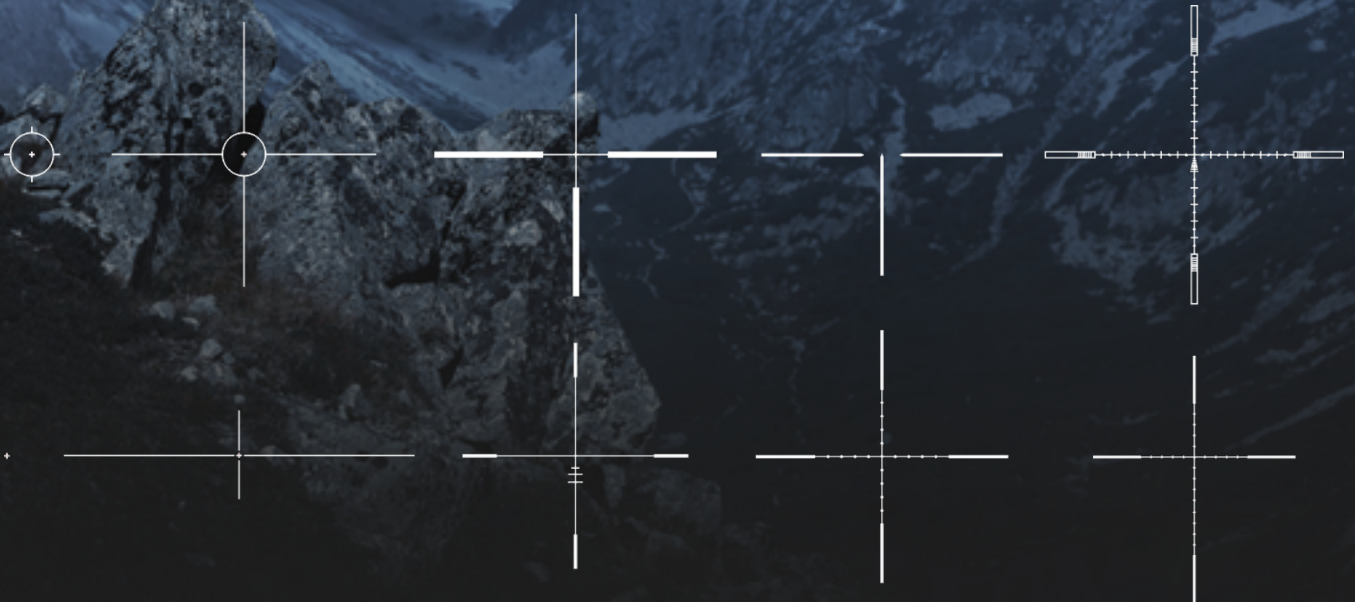
**16x**

**4x**



# Scalable ballistic reticles

Ballistic reticles are scaled proportionally to riflescope's magnification changes, similar to the reticles placed in the first focal plane of optical sights. Angular dimensions of reticles' parts remain constant at all magnifications, which allows quick measuring of distance and adjusting for shooting at various ranges.





# Picture-in-Picture mode

Picture-in-Picture mode is an additional frame for high-precision zeroing. Taking only 10% of the total display area, the frame shows magnified image of the target and reticle and allows the user to closely see the image in the aiming area and have visual control of the entire field of view at the same time.



# Compound Continuous Power System

Digex riflescopes are powered with two rechargeable batteries: one built-in and the other replaceable located in the battery compartment. Upon discharge of the battery in the battery compartment, the riflescope switches automatically to the built-in battery. The replaceable battery can be removed and replaced in a matter of seconds. Then the riflescope switches to the replaceable battery without intermediate shutdown.





# Remote Firmware Update

A smartphone, free mobile application Stream Vision and Internet access is all one needs to check updates and to install new firmware. Updates with new functions are implemented into the riflescope used by hunter without the need to send to repair center.





# Supplied powerful long-range IR Illuminator

The Digex riflescopes are supplied with a detachable high power 850 nm or 940 IR illuminator. The 850nm IR features long-range action, the 940 nm IR operates in the invisible range. With this IR the hunter can observe animals staying unnoticed and without the fear that animals could be frightened away. Three adjustable IR power levels help choose preferred effective range and illumination level of an object observed. Adjustable power changes the operating range and illumination level of objects.

 850 | 940 nm  
illuminator







# Wi-Fi. Integration with IOS and Android devices

The built-in WiFi module connects the device with either Android or iOS smartphones using the Stream Vision 2 mobile app. This combination opens up a wide range of options: wireless device software updates, real-time image transmission to the mobile device screen, remote control digital functions and much more. Users registered in the application are provided with cloud storage space for photos and videos taken with a digital or thermal imaging device. An important feature is that the device is still compatible with the previous, first version of the Stream Vision application.





# High caliber recoil resistance: 12 gauge., 9.3x64, .375H&H

Digex riflescopes feature high shock resistance allowing use with large caliber hunting rifles such as 9.3x64, .30-06, .300, .375. etc., as well as smooth-bore and airsoft weapons.







# Fully waterproof IPX7

The Digex features IPX7 level of protection, which means it is fully waterproof. The riflescopes are able to operate in high humidity, precipitation of any intensity and survive a 30-minute long and 1m deep submersion.



# More features



## **A selection of 10 reticle shapes in 8 color modes**

Digex's reticle is electronic and always stays in the same plane with the target. The Digex has reticles of ten various shapes and functions (direct shot type, ballistic, scalable and regular), all available in eight colors.

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## **Accurate Zoom Zeroing**

Zeroing the riflescope can be done either at the base magnification or at a digital zoom, with the click value decreasing as the zoom value increases. At the maximum magnification of 16x reticle step is less than 0.1 MOA but the aiming point is stable in the entire range of magnifications.

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## **5 individual shooting profiles / 50 zeroing distances**

Zeroing settings are saved in a shooting profile. The Digex N455 features up to five shooting profiles for various rifles and cartridges. Each profile can hold up to 10 zeroing distances.

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## **Software sensitivity enhancement algorithm SumLight**

SumLight function increases sensor sensitivity which allows passive observation (without

IR) in low light conditions and at night. The software automatically activates algorithms (such as summing adjacent pixel signals, frame addition), thus increasing sensitivity while preserving image quality.

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## **Wide-angle eyepiece**

The field of view of the complex wide-angle six-lens eyepiece is 30 degrees. Combined with the quality AMOLED display, the eyepiece delivers a rich and deep image perception.

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## **Instant Start-up**

Digex starts up within three seconds after ON button is pressed.

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## **User Friendly Controls**

Digex is easy to use. Turn on-off, video recording, zoom setup and PiP mode are activated by dedicated buttons easily accessible on the upper part of riflescope's housing. Other functions are managed by the controller, which operates as both a wheel and button.

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## **Operating Temperatures -25 ... +50°C**

Digex riflescopes are designed to operate in a wide range of temperatures from (-25 to +50°C). The frost-resistant AMOLED display features a quick response rate and ensures a crisp image when viewing fast moving objects.

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## Side incline indication

Rifle's side inclination when shooting shifts the point of impact off the aiming point. Digex rifle control the degree of side inclination. Once the rifle with riflescope installed is inclined by more degrees, the display shows a warning – compound arrows with direction and degree of inclination. The more sections an arrow has, the greater is the angle of side incline.

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## Customizable Automatic Shut-down

This setting automatically turns the riflescope off as soon as it is in the non-working position for a time interval – inclination angle is more than 70 degrees vertically (upwards/downwards) or 30 degrees horizontally (rightwards/leftwards).

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## Stadiametric rangefinder

The stadiametric rangefinder is a dynamic rangefinding scale intended to help determine appropriate range to objects with known height 1.7 m (deer), 0.7m (wild boar) and 0.3 m (rabbit).

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## Removable Eye Cup with Magnet Fixing

The removable eye cup installs on the eyepiece and removes from it within a fraction of a second. At night use, the eye cup protects the hunter against disclosing light from the micro display and positions the eye relative to the riflescope's eyepiece.

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# Specifications



## Digex N450

Use the drop-down menus to change models.

### Main

Sensor	CMOS 1280x720
Magnification, x	4 - 16 (x4 zoom)
IR Illuminator wavelength, nm	850 (long-range)
Detection range, m	550

### Main

Sensor	CMOS 1280x720
Magnification, x	4 - 16 (x4 zoom)
IR Illuminator wavelength, nm	850 (long-range)
IR Optical power, mW	-
Detection range, m	550

### Sensor

Type	CMOS
Resolution, pixels	1280x720



## Optics

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Objective lens	F50/1.2
Magnification, x	4 – 16
Field of view (HxV), degrees / m @ 100 m	6.5 x 4.9 / 11.4 x 8.6
Eye relief, mm	50

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## Display

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Type	AMOLED
Resolution, pixels	1024x768

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## Infrared Illuminator

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Model	-
Emitter	LED
IR wavelength, nm	850 (long-range)
IR Optical power, mW	300
IR spot position adjustment	-

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## Range Performance

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Detection range, m	550
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## Laser Rangefinder

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Safety class for laser equipment according to IEC 60825-1:2014	-
Wavelength, nm	-
Max. measuring range, m	-
Measurement accuracy, m	-

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## Reticle

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Click value, H/V, mm at 100 m 10 / 10

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Click range, H/V, mm at 100 m 2000 / 2000

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Number of preloaded reticles 10+

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## Video Recorder

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Video / photo resolution, pixel 1024x768

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Video / photo format .mp4 / .jpg

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Built-in memory, GB 16

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## Wi-Fi

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Wireless Protocol -

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Wireless Standard 802,11 b/g

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Frequency, GHz 2.4GHz

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## Environmental Characteristics

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Degree of protection, IP code (IEC60529) IPX7

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Operating temperature range, °C -25 - +50

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## Connections and Compatibilities

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Max. recoil power on rifled weapon (Eo), Joules 6000

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Shock resistance on the smooth-bore rifles, caliber 12

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Compatible mounts Standard 30 mm rings

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Supported Application Stream Vision 1, Stream Vision 2

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## Power Supply

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Output voltage, V 3.0 – 4.2

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Battery type Dual Li-Ion B-Pack Mini Power System: 2 A·h Changeable Battery (external) / 3.2 A·h Battery (internal)

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Capacity, mAh 2000 (external) + 3200 (internal)

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Operating time on battery pack (at t=22°C), h \* 5+

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External power supply, V 5V

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## Weight & Size

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Body material -

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Dimensions, mm 388x78x78

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Weight, kg 0.95

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## Trade Data

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SKU (Model #) 76641

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Status -

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