PULSAR

USER MANUAL

English | Français | Deutsch | Español | Italiano | Русский

NIGHT VISION DIGITAL RIFLESCOPE

DIGEX
N450 | N455

EN **Electromagnetic compatibility.**
This product complies with the requirements of European standard EN 55032: 2015, Class A.
Caution: Operating this product in a residential area may cause radio interference.
Attention! A license is required when exporting the Digex night vision digital riflescope outside your country.
Improvements may be made to the design of this product to enhance its user features.
The current version of the Operation Manual can be found on the website:
www.pulsar-vision.com

FR **Compatibilité électromagnétique.**
Ce produit est conforme aux exigences de la norme européenne EN 55032: 2015, classe A.
Attention: L'utilisation de ce produit dans une zone résidentielle peut provoquer des interférences radio.
Attention! Les viseurs numériques de vision nocturne DIGEX nécessitent l'obtention d'une licence s'ils sont exportés hors de votre pays.
La configuration peut être modifiée afin d'améliorer l'utilisation d'un appareil.
La version actuelle du manuel d'utilisation est disponible sur
www.pulsar-vision.com

DE **Elektromagnetische Verträglichkeit.**
Dieses Produkt entspricht den Anforderungen der Europäischen Norm EN 55032:2015, Klasse A.
Achtung: Der Betrieb dieses Produktes in Wohngebieten kann Funkstörungen verursachen.
Achtung! Digitale Nachtsichtzielfernrohre DIGEX erfordern eine Lizenz, wenn sie über die Grenzen Ihres Landes exportiert werden.
Änderungen im Design zwecks höherer Gebrauchseigenschaften des Produkts vorbehalten.
Die aktuelle Version der Bedienungsanleitung finden Sie unter
www.pulsar-vision.com

ES **Compatibilidad electromagnética**
Este producto cumple con los requisitos de la norma europea EN 55032:2015, Clase A.
Advertencia: el uso de este producto en una zona residencial puede provocar interferencias de radiofrecuencia.
¡Atención! La venta de visores nocturnos digitales DIGEX fuera de su país requieren una licencia de exportación.
El diseño de este producto puede ser modificado con el fin de mejorar las características del usuario.
La última edición del manual de instrucciones está disponible en el sitio web
www.pulsar-vision.com

IT Compatibilità elettromagnetica.
Questo prodotto è conforme ai requisiti della norma europea EN 55032: 2015, Classe A.
Attenzione: l'uso di questo prodotto in un'area residenziale può causare dei radiodisturbi.
Attenzione! I visori notturni digitali DIGEX necessitano di un certificato nel caso in cui vengano esportati all'estero.
Per migliorare le proprietà del prodotto nella sua costruzione possono essere apportate delle modifiche.
La versione attuale del manuale d'uso è disponibile sul sito **www.pulsar-vision.com**

РУ **Электромагнитная совместимость.**
Данный продукт соответствует требованиям европейского стандарта EN 55032:2015, Класс А.
Внимание: эксплуатация данного продукта в жилой зоне может создавать радиопомехи.
Внимание! Цифровые прицелы НВ DIGEX требуют лицензии, если они экспортируются за пределы Вашей страны.
Для улучшения потребительских свойств изделия в его конструкцию могут вноситься усовершенствования.
Актуальную версию инструкции по эксплуатации Вы можете найти на сайте
www.pulsar-vision.com

v.0720

⚡ Technical Specifications

DIGEX MODEL	Digex N450	Digex N455
SKU	76641	76642
OPTICAL SPECIFICATIONS		
Lens Focus, mm	50	
Focal Ratio, D/f'	1:1.2	
Magnification, x	4-16 (digital zoom)	
Field of View, (horizontal, @4x magnification), °	6.5	
Field of View, (horizontal, @4x magnification), m@100m	11.4	
Eye Relief, mm	50	
Minimum Focusing Distance, m / y	5 / 5.47	
Diopter Adjustment, D	-3/+5	
Range of Detection, (Deer Type Object), m / y	550 / 601.49	500 / 546.81
RETICLE		
Click value (H/V), mm@100 m – when magnifying, x	10 – 4x 5 – 8x 2.5 – 16x	
Click Range (H/V), mm@100m	2000 (± 100 clicks)	
ELECTRONIC CHARACTERISTICS		
Sensor Type/Resolution	HD CMOS/1280x720	
Display Type/Resolution	AMOLED/1024x768	
VIDEO RECORDER		
Video/Photo Resolution, Pixels	1024x768	
Video Recording/Photo Format	.mp4 / .jpg	
Built-In Memory	16 GB	
WI-FI CHANNEL		
Frequency	2.4 GHz	
Standard	802.11b/g	
OPERATING FEATURES		
Tube Diameter (for mounting rings), mm	30	
Battery Operating Time (built-in APS3 and removable APS2) at t = 22 °C, h (Wi-Fi off)	5.5	
Power Supply, V	3.0-4.2	
Battery Type / Capacity / Rated Output Voltage	Li-Ion Battery Pack APS2 / 2000mAh / DC 3.7V (removable) APS3 / 3200mAh / DC 3.7V (built-in)	
External Power Supply	MicroUSB type B (5V)	
Maximum Recoil Power on Rifled Weapons, Joules	6000	
Maximum Recoil Power on Smooth-Bore Weapons, Caliber	12	
Degree of Protection, IP code (IEC60529)	IPX7	
Operating Temperature, °C (°F)	-25 – +50 (-13 – +122)	
Dimensions (LxHxW), mm / inch	378x78x78 / 14.88x3.07x3.07	
Weight (with batteries, without IR illuminator), kg / oz	0.95 / 33.51	

DIGEX MODEL	Digex N450	Digex N455
DETACHABLE IR ILLUMINATOR		
Type	LED	
Wavelength, nm	850	940
Lens Diameter, mm	26	
Optical Power of the IR Illuminator, mW	Up to 300	Up to 250
Power Supply, V	3 – 4.2	
Average Operating Time, Hours	7	
Operating Temperature, °C (°F)	-25 - +50 (-13 – +122)	
Riflescope Compatibility	Digex	
Dimensions (LxHxW), mm / inch	129x84x75 / 5.08x3.31x2.95	
Weight (with battery), kg/oz	0.14 / 4.94	

⚡ Package Contents

- Digex night vision digital riflescope
- Allen wrench
- APS2 battery pack (3 pcs.)
- Carrying case
- APS battery charger
- Lens-cleaning cloth
- Mains charger
- Quick User Manual
- USB cable
- Warranty card
- IR illuminator
- APS3 battery cover

⚡ Description

Digex night vision digital riflescopes are designed for use with hunting weapons both at night and in the daytime. In low light conditions (no light from stars and the moon) it is recommended to use an infrared illuminator with a wavelength of 850 nm or 940 nm.

Areas of application of the riflescopes are as follows: hunting, observation and orientation under conditions of limited visibility.

⚡ Distinctive Features

- High range detection
- High resolution imaging
- SumLight™ program algorithm for additional sensitivity improvement
- Heavy caliber shock resistance: 12-gauge, 9.3x64, .375H&H
- Mounting with standard 30mm rings
- Instant start
- Strong metal housing
- Completely waterproof IPX7
- Customizable reticles
- HD AMOLED color display
- Photo and video with sound recording

- Picture in Picture function
- Stream Vision App support
- Advanced features (enabled by future riflescope software updates using free Stream Vision App)
- User-friendly controls
- B-Pack mini combined power system
- Functional and ergonomic design
- Wide operating temperature range (-25 °C – +50°C)

⚡ Useful Functions and Modes

- User-friendly interface
- Stadiametric rangefinder (to estimate distance to object)
- Built-in 3-axis accelerometer gyroscope (slope angle indication)
- Smooth digital zoom
- Large selection of electronic reticles
- Scalable reticles (reticle graduation changes proportional to zoom)
- 5 zeroing profiles (10 distances per profile)
- One-shot zero function
- Precise "Zoom Zeroing" (reducing the minute of angle click value when zeroing at high magnification)
- "Freeze Zeroing" function
- Display off function
- Wi-Fi. Remote control and observation with a smartphone

Video recording

- Built-in photo and video recorder with sound recording
- 16GB internal memory
- Integration with iOS and Android devices.
- Youtube. Live video streaming and recording to the Internet via smartphone and using the free Stream Vision App

Battery Pack

- Built-in 3200mAh battery pack APS3
- Quick change Li-Ion batteries APS2/APS3
- Built-in and external batteries APS2/APS3 can be charged via micro USB

⚡ Components and Controls

1. Eyecup
2. Eyepiece diopter adjustment ring
3. **ON** button
4. **REC** button
5. **ZOOM** button
6. **Controller**
7. Battery compartment cover
8. Battery APS2
9. MicroUSB cover
10. MicroUSB port
11. Objective lens focus ring
12. Lens cap
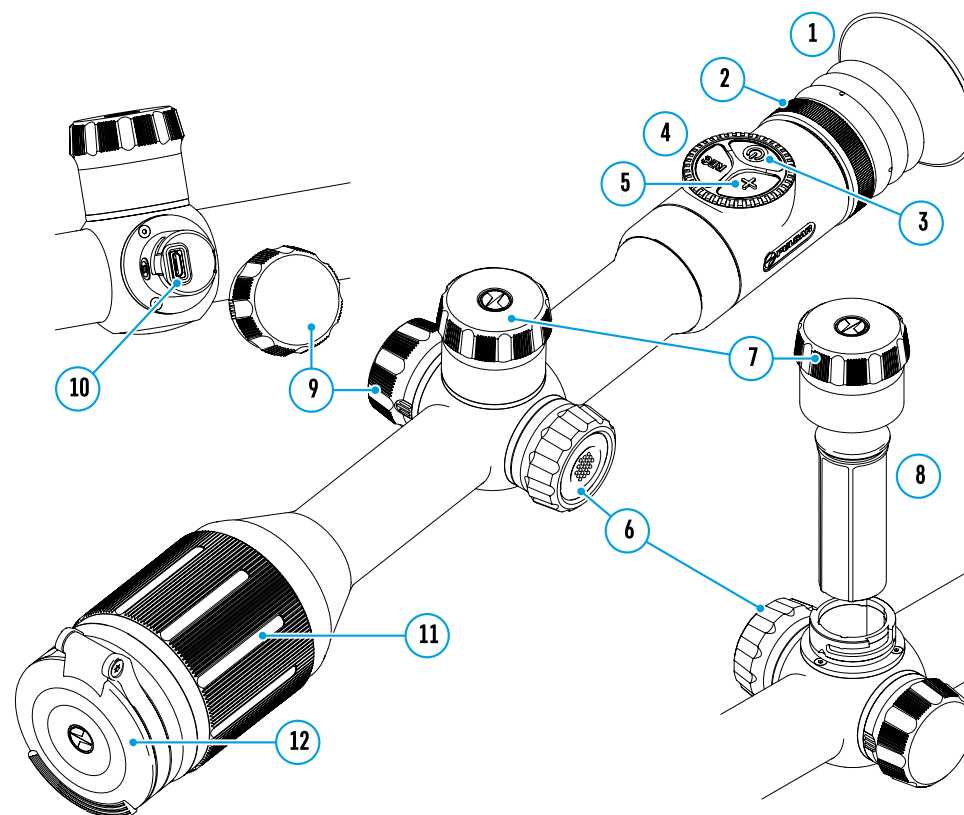
⚡ Buttons Operation

Control	Condition/operating mode	First short press	Subsequent short presses	Long press	Rotation
ON button	Device is switched off	Powers on device	Enables **SumLight™** function	Powers on device	-
	Display off	Turns on display	Enables **SumLight™** function	Turns device off	-
	Device is switched on, quick menu, main menu	Enables **SumLight™** function	Turns off **SumLight™** function	Turns display off / turns device off	-
ZOOM button	Device is switched on, quick menu, main menu	Changes magnification (zoom)		Turns **PiP** on/off	-
REC button	Device is switched on, quick menu, main menu, video mode	Starts video recording	Pause	Switches video/ photo modes	-
	Device is switched on, quick menu, main menu, video recording activated	Pause	Resume video recording	Stop video recording	-
	Device is switched on, quick menu, main menu, photo mode	Photography		Switches video/ photo modes	-
Controller	Device is switched on	Accesses quick menu	-	Accesses main menu	-
	Quick menu	Upwards navigation		Exits quick menu	Parameter change
	Main menu	Confirms values, enters menu items		Exits menu items, main menu	Navigation through menu
	Zoom	-		-	Smooth Zooming

⚡ Using Battery Pack

DIGEX night vision digital riflescopes come with a built-in rechargeable Lithium-Ion APS3 battery pack with a capacity of 3200mAh and a removable rechargeable Lithium-Ion APS2 battery pack with a capacity of 2000mAh. Batteries should be charged before using.

Charging battery pack:
- Open the MicroUSB cover **(9)** by turning it counterclockwise.
- Connect the MicroUSB plug of the USB cable **(16)** to the MicroUSB port **(10)** in the body of the sight.
- Connect the second USB plug of the USB cable **(16)** to the MicroUSB port on the mains adapter **(17)**. Plug the device into a 100-240V socket **(18)**.

Attention! When charging batteries via the MicroUSB port **(10)**, the built-in APS3 battery pack is charged first. When it is completely charged, the removable APS2 battery pack starts charging. When the device is in use, power consumption occurs in the reverse sequence.
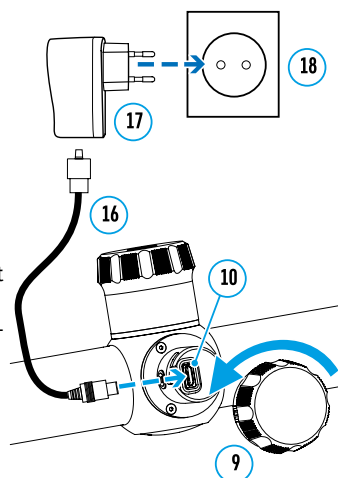
The rechargeable Lithium-Ion APS2 battery pack can be recharged using the APS charger*.
- Insert the APS2** battery pack **(8)** along the rail into the APS charger slot as far as it will go. The APS charger is supplied with your device.
- Point **A** on the battery and point **B** on the charger should aligned.
- Two batteries can be charged at the same time: the second slot is designed for this.
- Connect the MicroUSB plug of the USB cable **(16)** to the port **(14)** of the charger **(13)**.
- Connect the second plug of the USB cable **(16)** to the USB port on the mains adapter **(17)**. Plug the device into a 100-240V socket **(18)**.
- The LED indicator **(15)** will display battery charge level (see the table).
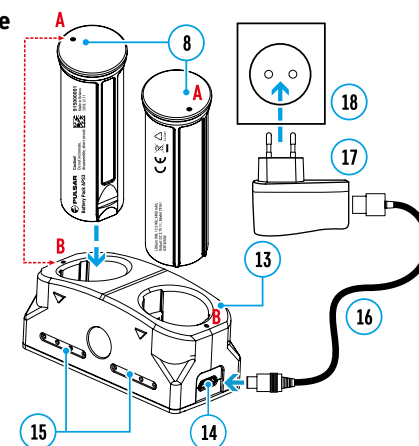
*Supplied as part of package.

** APS3 batteries sold separately.

| LED INDICATOR*	BATTERY CHARGE STATUS
●	Battery level is from 0% to 10%. Charger is not connected to the mains.
☀	Battery level is from 0% to 10%. Charger is connected to the mains.
●●●●	Defective battery. Do not use.
●	Battery level is from 10% to 20%.
●●	Battery level is from 20% to 60%.
●●●	Battery level is from 60% to 95%.
●●●●	The battery is completely charged and can be disconnected from the charger.

* LED indicator displays the current battery charge status for 30 seconds when the APS charger is not plugged in. When power is being supplied, the indicator is constantly displaying the current battery charge status, the LEDs are additionally flickering to display the battery charging process.

Installing the battery pack in the riflescope
- Turn the battery cover **(7)** counterclockwise and remove it.
- Install the battery **(8)** into the battery compartment using the special guides in the device body designed for it.
- When properly installed, the battery is fixed in the battery compartment of the device.
- Close the battery compartment cover **(7)**, turning it clockwise.

Precautions
- When charging, always use the charger supplied with the scope. The use of any other charger may permanently damage the battery pack or the charger.
- After being stored for a long time, the battery should be partially charged: it should not be completely charged or completely discharged.
- Do not charge the battery immediately after bringing it from cold to warm. Wait for 30-40 minutes so that the battery may warm up.
- Do not leave the battery unattended while charging.
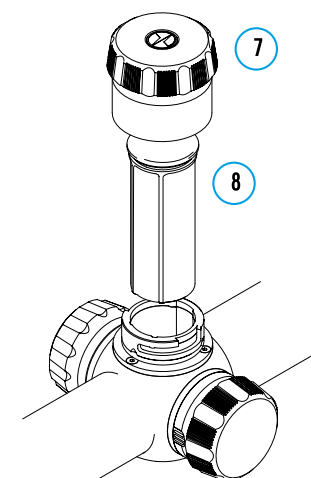
- Do not use the charger if it has been modified or damaged.
- The battery should be charged at an air temperature of 0 °C - + 45 °C or the lifespan of the battery will decrease significantly.
- Do not leave the charger with the battery connected to the mains for more than 24 hours after it has been completely charged.
- Do not expose the battery to high temperatures or naked flames.
- Do not submerge the battery.
- Do not connect an external device with a current consumption that exceeds permitted levels.
- The battery has short-circuit protection. However, all situations that may cause short-circuiting should be avoided.
- Do not disassemble or deform the battery.
- Do not drop or strike the battery.
- When using the battery at low temperatures, the battery capacity decreases, this is normal and not a defect.
- Do not use the battery at the temperatures above those shown in the table, this may decrease battery life.
- Keep the battery out of the reach of children.

Switching and changing the batteries

Digex riflescopes are powered by 2 batteries: a built-in APS3 battery pack and a removable APS2 or APS3 battery pack.

- If there are two batteries in the device, two battery icons are displayed in the status bar (1 - built-in battery, 2 - removable battery). The battery from which the device is powered is displayed in blue, with the inactive battery displayed in grey.
- If there is no removable battery in the device, only one blue icon for the internal battery is displayed in the status bar.
- When both batteries are fully charged, the device is powered by the removable battery. If the removable battery level is low, the device will switch to the built-in battery.
- When charging the batteries using the MicroUSB port **(10)**, the built-in battery is charged first. When the built-in battery charge level reaches 100%, the device switches to charging the removable battery. The battery level is displayed in percentages above the icons in the status bar.
- It is possible to replace the removable battery with the device turned off or if turned on when being powered by the built-in battery (the device will continue to work properly).

Attention! When removing the removable battery from the device powered by it, the device will reboot and switch to operation from the built-in battery. The device will automatically switch to the removable battery if it has sufficient charge after installation.

⚡ External Power Supply

- Power can be supplied from an external source, such as a power bank (5V).
- Connect the external power supply to the MicroUSB port **(10)** of the riflescope.
- The riflescope switches to the external power source, while the built-in APS3 battery pack and the removable APS2/APS3* battery pack will gradually recharge.
- A rechargeable battery icon ⚡ indicating the percentage of battery life will appear in the status bar.
- When you turn off the external power source, the riflescope switches over to the removable battery without turning off. When there is no removable battery or it has a low power level the device switches to the built-in battery.

Attention! Charging Power Bank APS2 / APS3 batteries at air temperatures below 0 ° C can result in reduced battery life. When using external power, connect Power Bank to the switched-on riflescope, which has worked for several minutes.

*Optional.

⚡ Operation

Attention! It is forbidden to point the riflescope lens at intensive energy sources, such as laser radiation emitting devices or the sun. It can damage the riflescopes electronic components. Warranty does not cover damage arising from failure to comply with the operating rules.

Mounting on the weapon

To ensure accurate shooting the Digex riflescope should be properly mounted on the weapon.

- The riflescope is fixed using mounts purchased separately. Use only high-quality mounts and rings that are designed especially for your weapon. Follow the mounting manufacturer's recommendations on the installation procedure and use the correct tools.
- When mounting the riflescope, adjust its position to enable the correct and comfortable holding of the weapon while maintaining the eye relief (the distance between the riflescope and eye) specified by the technical specifications (see the **table** for technical specifications). Failure to comply may result in injury to the shooter caused by the riflescope eyepiece when shooting.
- It is recommended to install the riflescope as low as possible. However, it should not be in contact with the barrel or receiver.
- In order to avoid pinching the riflescope body, a tightening torque for the screws of the mounting rings must not exceed 2.5Nm. A torque wrench is recommended to control the tightening torque.
- Before using the riflescope for hunting, follow the instructions in the **Zeroing** section.
- It is recommended to use an eyecup while using the riflescope in the dark in reduce light spillage from the eyepiece. Mounting the eyecup on the riflescope eyepiece is enabled using built-in magnets.

IR illuminator

The riflescope is equipped with a built-in IR illuminator featuring a wavelength of 940nm or 850nm, which provides a significant increase in observation ranges in lowlight conditions and darkness.

Installing Battery Pack in the IR illuminator

The IR illuminator for the Digex riflescope is powered by an APS2 battery pack.

- To install the battery in the IR illuminator, turn the battery cover **(21)** counterclockwise and remove it.
- Install the battery into the battery compartment **(20)** using the special guides in the IR illuminator body designed for it.
- When properly installed, the battery is fixed in the battery compartment **(20)**.
- Close the battery compartment **(19)**, turning the cover clockwise.

Installing the IR illuminator on riflescope

- Open the mount ring of the IR illuminator **(24).**
- Put the mount on the riflescope body so that the mount half rings encircle the riflescope body.
- Raising the eccentric lever **(26)**, move it to the left. Align the eccentric axis with the groove of the moving half ring. The eccentric lever **(26)** shall take its seat.
- Lock the eccentric lever **(26)** position by lowering it down.
- The IR illuminator mount should be as close as possible to body of the riflescope lens.
- Tighten the screw in the eccentric pin **(25)** using an Allen wrench.
- If the lever loosens during operation, tighten the screw with an Allen key.
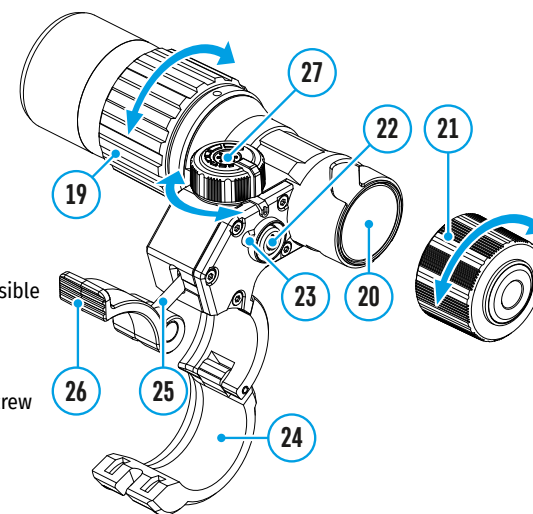
Powering on and adjusting the IR illuminator

Use the IR illuminator to improve the quality of observation in lowlight conditions at night.

- Turn on the IR illuminator by pressing the button **(22)** on the side of the light housing.
- Turn the knob **(27)** of the IR illuminator to control the illuminator power.
- To adjust the IR light position in the riflescopes field of view, loosen the ring **(19)** of the IR illuminator by turning it in the direction of the arrow.
- Adjust the IR illuminator lens using its hinge system to align the IR illumination in the riflescopes field of view. Once adjusted, tighten the IR illuminator ring **(19)**.
- Press the **IR** button **(22)** to turn off the IR illuminator.

The illuminator is equipped with an LED indicator **(23)** making it possible to monitor the battery level. Indication modes are in the table below:

IR OPERATING MODE	INDICATOR COLOR
The IR illuminator is on, power supply 3.2-4.2V	●
The IR illuminator is on, power supply less than 3.2V. Approximate operating time before the IR illuminator turns off is 30 minutes	●
The IR illuminator is off	–

⚡ Powering on and Image Setting

- Open the lens cap **(12)**.
- Press the **ON** button **(3)** briefly to power the riflescope on.
- Adjust the resolution of the symbols on the display by rotating the diopter adjustment ring of the eyepiece **(2)**.
- Rotate the lens focus ring **(11)** to focus on the object being observed.
- Adjust the brightness, contrast of the display using the controller **(6)** (for more details, see the **Quick Menu Functions** section).
- After use, turn off the riflescope by long pressing the **ON** button **(3)**.

⚡ Zeroing

The riflescope features two zeroing methods – one shot zeroing and using **Freeze** function. Zeroing is recommended to be done at the temperature close to the riflescope operating temperature.

- Mount the weapon with the riflescope installed on a bench rest.
- Set a target at a certain distance.
- Adjust the riflescope according to the recommendations in **Powering on and Image Setting** section.
- Select a zeroing profile (see **Zeroing Profile** 🗇 main menu item)
- Point the weapon at the center of the target and shoot.
- If the impact point does not match the aiming point (center of the riflescope's reticle), press and hold down the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Zeroing** menu item ⊕ . To confirm the selection, briefly press the controller button **(6)**.
- Set the zeroing distance value (see **Zeroing** menu item => **Add new distance** submenu ⊕).
- Confirm the selected zeroing distance value by long pressing the controller button **(6)**.
- The **Zeroing Parameters Settings** additional menu will appear on the screen.
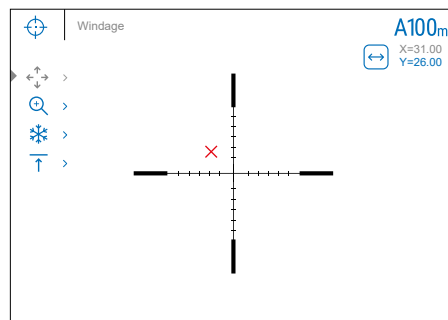
- Cross hairs appear in the center of the display ✕ . The X and Y coordinates of the cross hairs are in the upper right corner.
- Rotate the controller ring **(6)** to select the icon ↔ . Press the controller button **(6)** briefly.
- Holding the reticle on the point of aim, rotate the controller ring **(6)** to move the cross hairs until the cross hairs match the point of impact. To switch direction from horizontal to vertical, briefly press the controller button **(6)**.

Attention! To avoid holding the reticle on the point of aim, you can use the Freeze function – freezing the zeroing screen (refer to **Zeroing** menu item => **Distance** submenu => **Zeroing Parameters Settings** => **FREEZE** submenu ❄).

- To save the new reticle position, press and hold the controller button **(6)**. The reticle is aligned with the point of impact and the submenu ↔ exits.
- Press and hold the controller button **(6)** again to exit the zeroing settings menu - the message "Zeroing coordinates saved" appears, confirming the successful operation.
- Fire a second shot - now the point of impact and the aiming point must be matched.

⚡ Smart Reticle Function*

When changing the digital magnification of the riflescope, the reticle that appears on the display is scaled, i.e. it will change (increase or decrease) its form proportionally to the magnification, allowing the use of rangefinder reticles at any digital magnification.

*Only for scalable reticles X51Fi-300, M56Fi, M57Fi

⚡ Discrete Digital Zoom

- The riflescope functionality allows you to quickly magnify 2 and 4 times the standard magnification, as well as return back.
- Successively press the **ZOOM (5)** button to change the riflescope magnification.
- While the icon ⊕ is visible on the screen, rotate the controller ring **(6)** for smooth digital zooming of the specified magnification.

⚡ Quick Menu Functions

The basic settings (adjusting brightness and contrast, smooth digital zoom function, stadiametric rangefinder, current profile and distance information) can be changed using the quick menu.

- Press the controller button **(6)** briefly to enter the quick menu.
- A short press of the controller button **(6)** enables you to switch between functions, as described below.
- **Brightness** ☀ – rotate the controller ring **(6)** to change the display brightness value from 00 to 20.
- **Contrast** ◐ – rotate the controller ring **(6)** to change the image contrast value from 00 to 20.
- A100 ⊤ - information on the current profile and zeroing distance in this profile (e.g., profile A, zeroing distance of 100 m). This information is always displayed in the status bar. Rotate the controller ring **(6)** to switch between the zeroing distances in the adjusted profile. This function is available if there are two or more distances in the profile.
- **Stadiametric Rangefinder** ᵾ – rotating the controller ring **(6)**, change the distance between the special mark points to determine the distance to the observed object (for more details on the rangefinder, see the **Stadiametric Rangefinder** section).
- Press and hold the controller button **(6)** to exit the menu or wait 10 seconds to exit automatically.

⚡ Main Menu Functions

- Enter the main menu with a long press of the controller button **(6)**.
- To move through the main menu items, rotate the controller ring **(6)**.
- Main menu navigation is cyclical: when the last menu item of the first tab is reached, the first menu item of the second tab comes next.
- Press the controller button **(6)** briefly to open subitems of the main menu.
- Press and hold the controller button **(6)** to exit from a subitem of the main menu.
- Automatic exit from the main menu occurs after 10 seconds of inactivity.
- After exiting the main menu the cursor location (▶) is stored only for a single working session (i.e. until the riflescope is turned off). When restarting the riflescope and entering the menu the cursor will be on the first menu item.

GENERAL VIEW OF MENU

Tab 1

Menu	Zeroing Profile
● ●	

▶   ⧉ ····· A

     ☼ ····· 10

     ┼   ›

     ⊕   ›

     📶 ····· (Off ⬤)

     📶⚙   ›

Tab 2

Menu	General Settings
● ●	

▶   ⚙   ›

     🎤 ····· (Off ⬤)

     (•)   ›

     ⓘ

Main menu contents and description

Zeroing Profile ⧉
This main menu item allows you to select one of five profiles (A, B, C, D, E) to use. Each profile includes the following parameters:
- A set of zeroed distances
- Reticle color
- Reticle type

Different profiles can be used when using the riflescope on different weapons or when shooting with different ammunition.
- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Zeroing Profile** menu item.
- Press the controller button **(6)** briefly to enter the **Zeroing Profile** submenu.
- Rotate the controller ring **(6)** to select one of the zeroing profiles (marked with the letters A, B, C, D, E).
- Confirm your selection with a short press of the controller button **(6)**.

The name of the selected profile appears in the status bar at the bottom of the display.

Icon Brightness ☼
Adjust the brightness level of the icons and screensavers (Pulsar, Display off) on the display.
- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Icon Brightness** menu item.
- Press the controller button **(6)** briefly to enter the **Icon Brightness** submenu.
- Rotate the controller ring **(6)** to set the desired brightness level (1 to 10).
- Press the controller button **(6)** briefly to confirm the selection.

Reticle Setup ┼
This main menu item allows you to select the reticle shape, color and brightness.
- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Reticle Setup** menu item.
- Press the controller button **(6)** briefly to enter the **Reticle Setup** submenu.

Reticle Type ┼
Selection of the aiming reticle shape.
- Rotate the controller ring **(6)** to select the **Reticle Type** submenu.
- Press the controller button **(6)** briefly to enter the **Reticle Type** submenu.
- Rotate the controller ring **(6)** to select the desired aiming reticle shape from the list that appears. The reticle type changes as the cursor goes down the reticle list.
- Press the controller button **(6)** briefly to confirm the selection.

Reticle Color ⧋
Selection of reticle color.
- Rotate the controller ring **(6)** to select the **Reticle Color** submenu.
- Press the controller button **(6)** briefly to enter the **Reticle Color** submenu.
- Rotate the controller ring **(6)** to select one of the color options for the reticle:
  – **Black/Red**
  – **White/Red**
  – **Black/Green**
  – **White/Green**
  – **Red**
  – **Green**
  – **Yellow**
  – **Blue**
  – **Orange**
- Press the controller button **(6)** briefly to confirm the selection.

Reticle Brightness ☼
Adjust the brightness level of the aiming reticle.
- Rotate the controller ring **(6)** to select the **Reticle Brightness** submenu.
- Press the controller button **(6)** briefly to enter the **Reticle Brightness** submenu.
- Rotate the controller ring **(6)** to set the desired brightness level (1 to 10).
- Press the controller button **(6)** briefly to confirm the selection.

Zeroing ⊕	To zero your riflescope, you need to set a zeroing distance first in the range of 1 to 910 m (995 yards).
Add new distance ⊕	• Press and hold the controller button **(6)** to enter the main menu. • Rotate the controller ring to select menu item ⊕ and enter by briefly pressing the controller button. • Press the controller button **(6)** briefly to enter the **Add New Distance** submenu. • Rotate the controller ring to select a value for each distance category. Press the controller button **(6)** briefly to switch between digits. • Having set the desired distance, press and hold the controller button to save it. • The distance you set first becomes a primary distance – shown with icon ▶0◀ on the right of the distance value. **Note:** Maximum number of zeroing distances for each profile is ten.
Operating the distances	• Press and hold the controller button **(6)** to enter the main menu. • Rotate the controller ring **(6)** to select the **Zeroing** menu item ⊕ and enter by briefly pressing the controller button **(6)** – the zeroed distances are displayed. • The values (e.g., +7.0) shown on the right of the distance values stands for the number of clicks along the Y axis that the reticle position at other distances differs from the reticle position of the primary distance.
Zeroing Parameters Settings	• To zero at any distance again, rotate the controller ring **(6)** to select the required distance and briefly press the controller button **(6)**. • Enter the **Zeroing Parameters Settings** submenu — by briefly pressing the controller button **(6)** • The zeroing screen, allowing changes of zeroing coordinates, will appear.
Windage / Elevation	The **Windage/Elevation** additional menu item allows you to adjust the reticle position. For a detailed description of reticle adjustments, refer to the **Zeroing** section.
Magnification ⊕	**Magnification** allows you to magnify the digital zoom of the riflescope when zeroing, reducing click value. It improves the zeroing accuracy. • Rotate the controller ring **(6)** to select the **Magnification** submenu item and enter by briefly pressing the controller button. • Rotate the controller ring **(6)** to select a digital magnification value of the riflescope (e.g., x8). • Press the controller button **(6)** briefly to confirm your selection. The click value when using the **Magnification** function is indicated in the **table** of technical specifications.
FREEZE ❄	The feature of the function is that there is no need to constantly keep the riflescope at the point of aiming. • Rotate the controller ring **(6)** to move the cursor to the **Freeze** function. • Align the reticle with the point of aiming and press the controller **(6)** or **ON (3)** button. A screenshot will be taken, an icon ❄ will appear. • Go to the additional **Windage/Elevation** submenu and adjust the position of the reticle (see the **Zeroing** section). • Select the **Freeze** submenu item again and briefly press the controller **(6)** or **ON (3)** button - the image will "unfreeze".
Name Distance ↑	• Rotate the controller ring **(6)** to select the **Name Distance** submenu item and enter it by briefly pressing the controller button. • Rotate the controller ring **(6)** to select a value for each digit. Press the controller button **(6)** briefly to switch between digits. • Press and hold the controller button **(6)** to confirm the selection.

Zeroing ⊕	• Select a non-primary distance and enter the submenu for operating the distances with a brief press of the controller button **(6)**.
Change Primary Distance ▶0◀	• Select item **Change Primary Distance**. • Press the controller button **(6)** briefly. Icon ▶0◀ next to the selected distance confirms the change of primary distance. The differences of other distances from a new standard distance along the Y axis are recalculated as per clicks.
Delete Distance 🗑	• Select the distance you wish to delete and enter the submenu for operating the distances with a brief press of the controller button. • Select **Delete Distance** item. • Select Yes in the dialog box that appears to delete a distance. No – to cancel deletion. **Attention!** If the primary distance is deleted, the first distance on the list automatically becomes the new primary distance.
Wi-Fi Activation 📶	• Press and hold the controller button **(6)** to enter the main menu. • Rotate the controller ring **(6)** to select the **Wi-Fi Activation** menu item. • To turn Wi-Fi on or off, briefly press the controller button **(6)**.
Wi-Fi Settings 📶⚙	This item enables you to set up your riflescope for operation in a Wi-Fi network.
Password Setup PAS	This item enables you to set a password to access the riflescope from an external device. The password is used to connect an external device (i.e. smartphone) to the riflescope. • Press the controller button **(6)** to enter the **Password Setup** submenu. • The default password (12345678) will appear on the screen. • Rotate the controller ring **(6)** to set the desired password. Press the controller button **(6)** to toggle through the digits. • Press and hold the controller button **(6)** to save the password and exit from the submenu.
Access Level Setup	This submenu allows you to configure the appropriate level of access to your device made available to the **Stream Vision** application. **Owner Level**. A **Stream Vision** user has full access to all the device's functions. **Guest Level**. A **Stream Vision** user can only view video footage from the device in real time. • Press and hold the controller button **(6)** to enter the main menu. • Press the controller button **(6)** briefly to enter the submenu. • Rotate the controller ring **(6)** to select the access level. • Press and hold the controller button **(6)** to confirm your selection and exit from the submenu.
General Settings ⚙	This menu item allows you to configure the following settings:
Language 🌐	• Press the controller button **(6)** briefly to enter the **Language** submenu. • Rotate the controller ring **(6)** to select one of the available interface languages: English, German, Spanish, French, Italian or Russian. • Confirm your selection with a short press of the controller button **(6)**. • Press and hold the controller button **(6)** to save your selection and exit from the submenu.
Date 📅	• Press the controller button **(6)** briefly to enter the **Date** submenu. The date is displayed in dd/mm/yyyy format. • Rotate the controller ring **(6)** to select the desired year, month and date. Press the controller button **(6)** briefly to switch between digits. • Press and hold the controller button **(6)** to save your selected date and exit from the submenu.

General Settings ⚙️

Time 🕐

- Press the controller button **(6)** briefly to enter the **Time** submenu.
- Rotate the controller ring **(6)** to select the time format - 24 or AM/PM.
- Press the controller button **(6)** to proceed to the hour setting.
- Rotate the controller ring **(6)** to select the hour value.
- Press the controller button **(6)** to proceed to the minute setting.
- Rotate the controller ring **(6)** to select the minutes value.
- Press and hold the controller button **(6)** to save your selected time and exit from the submenu.

Units of Measure

- Press the controller button **(6)** briefly to enter the **Units of Measure** submenu.
- Rotate the controller ring **(6)** to select the unit of measurement - meters or yards, press the controller button **(6)**.
- Return to submenu will happen automatically.

Default Settings ←

- Press the controller button **(6)** briefly to enter the **Default Setting** submenu.
- Rotate the controller ring **(6)** to select Yes for factory reset or No to cancel the action.
- Confirm your selection with a short press of the controller button **(6)**.
- If Yes is selected, display will show "Return default settings?" and Yes and No options. Select Yes to factory reset.
- If No option is selected: restore default settings is canceled and it will return to the submenu.
- The following settings will be returned to their defaults before being changed by the user:

Operating Mode – Video
Interface language – English
Wi-Fi – Off (default password)
Magnification – initial value
PiP – Off
Unit of Measurement - Metric
Weapon Incline – Off
Zeroing Profile – A
Reticle selection from the riflescope's memory – 1

Attention! After factory reset the date and time as well as the zeroing profiles data entered by the user is saved.

Format 📇

This function enables formatting the memory card (delete all files).
- Press the controller button **(6)** briefly to enter the **Format** submenu.
- Rotate the controller ring **(6)** to select Yes to format the device's memory card, or No to cancel the action.
- Confirm your selection with a short press of the controller button **(6)**.
- If Yes is selected, display will show "Return default settings?" and "Yes" and "No" options. Select "Yes" to format the memory card.
If "No" is selected, formatting is cancelled and it will return to the submenu.

Microphone 🎤

This item allows you to enable (or disable) the microphone for recording sound during video recording.
- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Microphone** menu item.
- To turn the microphone on or off, briefly press the controller button **(6)**.

Accelerometer 📡

This menu item includes two subitems - **Auto Shutdown** and **Side Incline**.

Auto Shutdown ⏻

This item allows you to activate the auto power off function for when the riflescope is in a non-operating position (tilt up/down angle exceeding 70°, tilt right/left angle exceeding 30°).
- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Accelerometer** submenu, confirm the selection by briefly pressing the controller **(6)**.
- Rotate the controller ring **(6)** to select **Auto Shutdown**.
- Press the controller button **(6)** briefly to enter the submenu.
- Rotate the controller ring **(6)** to select the time period (1 min, 3 min, 5 min) after which the riflescope will automatically shut down, or select "Off" if you wish to deactivate **Auto Shutdown**.
- Confirm your selection with a short press of the controller button **(6)**.
Note: If the **Auto Shutdown** function is activated, the status bar shows an icon and the selected shutdown time period as ⏻ 1 min.

Side Incline →←

This item allows you to turn on/off the indication of horizontal (side) incline of the weapon. Side incline is indicated by "sector" arrows to the right and left of the reticle. Arrows show the direction in which you should move your rifle to eliminate incline.
There are three levels of incline:
  - 5°-10 ° – one sector arrow;
  - 10°-20 ° – two sector arrow;
  - Over 20° - three sector arrow (see figure).
A side incline of less than 5° is not displayed.
- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring to select the **Accelerometer** menu item.
- Press the controller button **(6)** briefly to enter the **Accelerometer** submenu.
- Rotate the controller ring to select **Side Incline**.
- To turn **Side Incline** on or off, briefly press the controller button **(6)**.

Device Information ⓘ

- Press and hold the controller button **(6)** to enter the main menu.
- Rotate the controller ring **(6)** to select the **Device Information** menu item.
- Press the controller button **(6)** briefly to enter the **Device Information** submenu.
This item allows the user to view the following information about the riflescope:
  - Full name of the riflescope.
  - SKU number.
  - Serial number of the riflescope.
  - Riflescope software version.
  - Hardware version.
  - Service information.
  - Battery information.

⚡ Status Bar

| A ⊤ 100m | ⊠ | 4.0x | 🎤 📶 ⏻ 5 min | 04:37 | 1 ▭ |

The status bar is at the bottom of the display and shows information on the actual operating status of the riflescope, including:

- Actual zeroing profile (e.g., A).
- Zeroing distance (e.g., 100 m).
- **SumLight™** (on/off).
- Current full magnification.
- Microphone (on or off).
- Wi-Fi connection.
- **Auto Shutdown** function (e.g., 5 minutes).
- Clock.
- Battery discharge level (when riflescope is powered by a built-in or removable battery), or
  - External battery power indicator (if the riflescope is powered by an external power supply), or
  - Battery indicator with current percentage of charge (when charging from an external power source).

⚡ Video Recording and Photography

The riflescope is equipped with a video recording (photography) function where the observed image is saved on the built-in memory card.

Before using the photo and video functions, read the **Time Setting** and **Date Setting** subsections of the **Main Menu Functions** section of this manual.

Built-in recorder operates in two modes:

Photo (photography; the icon ⬡ is displayed in the upper left corner of the display).

Video (video recording; the icon 🎞 is displayed in the upper right corner of the display, the total remaining recording time is given taking into account the current resolution in the HH:MM format (hours:minutes).

When switched on, the riflescope is in the **Video** mode. Toggle (switch) between the riflescope operating modes with a long press of the **REC (4)** button. Switching between the modes is cyclical (Video–> Photo–> Video).

Photo Mode. Photographing an image.

- Switch to **Photo** mode.
- Press the **REC** button **(4)** briefly to take a photo. The image freezes for 0.5 sec - a photo is saved to the internal memory.

Video Mode. Recording a video.

- Switch to the **Video** mode with a long press of the **REC (4)** button.
- Press the **REC (4)** button briefly to start video recording.
- When the video recording starts, the icon 🎞 will disappear and the **REC** icon as well as the video recording timer displayed in MM:SS (minutes:seconds) format will appear.
- Pause/continue recording by briefly pressing the **REC** button **(4)**.
- Press and hold the **REC (4)** button to stop and save video recording. Stopping/saving also occurs in the following cases:
  - by powering the riflescope off;
  - when the memory card is overfilled during recording ("Memory Full" message appears on the display);
  - when connecting the riflescope to a computer in **Memory Card** mode.

Notes:

- You can enter and navigate the menu during video recording.
- Recorded videos and photos are saved to the built-in memory card of the riflescope in the format img_xxx. jpg (for photos); video_xxx. mp4 (for video) where xxx is a three-digit counter (for videos and photos).
- The maximum duration of a recorded video file is five minutes. After this time expires, the video is recorded to a new file. The number of recorded files is limited by the capacity of the unit's internal memory.
- Regularly check free memory within the built-in memory card and move the footage to other storage media to free up the memory card space.

⚡ Wi-Fi Function

The riflescope has a function enabling wireless communication with mobile devices (smartphone or tablet) via Wi-Fi.

- To enable the wireless module, enter the main menu by long pressing the controller button **(6)**.
- Rotate the controller ring **(6)** to select the **Wi-Fi Activation** menu item.
- Press the controller button **(6)** briefly to turn the Wi-Fi module on/off.

Wi-Fi is displayed in the status bar as follows:

Wi-Fi is switched off	🚫📶
Wi-Fi is switched on by the user, Wi-Fi connection in the riflescope is in progress.	📶
Wi-Fi is switched on, there is no connection to the riflescope	📶?
Wi-Fi is switched on, there is connection to the riflescope	📶

- The riflescope is recognized by an external device under the name Digex_XXXX, where XXXX are the four last digits of the serial number.
- After entering the password (default: 12345678) on a mobile (see **Wi-Fi Settings** section of the **Main Menu Functions** section of this manual for more information on setting a password) and setting up a connection, the icon 📶 in the riflescope status bar changes to 📶.
- Launch **Stream Vision** application on your mobile device (see page 12 of the manual).
- Video broadcasting on a mobile screen starts after the viewfinder button on the mobile screen is activated.

⚡ Stadiametric Rangefinder

Digex night vision digital riflescope is equipped with a stadiametric rangefinder, allowing you to determine the approximate distance to an object if its size is known.

- To select the **Stadiametric Rangefinder** function, enter the quick menu by briefly pressing the controller button **(6)**.
- Press the controller button **(6)** briefly to select the icon ⊿.
- The display will show the lines for measurements, the icons and numbers of the measured distance for three objects.

There are three predefined values for objects:

Hare – 0.3 m high

Boar – 0.7 m high

Deer – 1.7 m high

- Place the bottom fixed line under the object and rotating the controller ring **(6)**, move the upper line relative to the lower horizontal fixed line so that the object is located directly between the lines. The objects range is automatically recalculated as the line is moved.

- The system will exit from the **Stadiametric Rangefinder** function automatically if there is no measurement within 10 seconds.
- To select a unit of measurement (meters or yards), go to the **General Settings** menu item => **Units of Measure** submenu in the main menu.
- The measured range value is rounded off before being displayed – for large range values up to 5 m, for shorter range – up to 1 m.
- To exit the rangefinder mode, briefly press the controller button **(6)** or wait 10 seconds to exit automatically.

235m
96m
41m
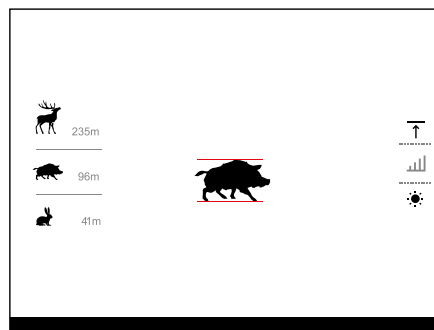
⚡ Display Off Function

When this function is in use, the riflescope switches to the standby mode, which allows it to be switched on quickly if necessary.

Options for operating with the **Display Off** function

Option 1. Riflescope off. It is necessary to power the riflescope on and activate **Display Off** function.

- Press the **ON** button **(3)** briefly to power the riflescope on.
- Activate **Display Off** function: press and hold the **ON** button **(3)**. "Display Off" message with a countdown will appear on the screen.

00:03
Display off

- Release the **ON (3)** button.
- Press the **ON (3)** button briefly to deactivate the **Display Off** function (to activate the display).

Option 2. Display Off function is activated; the riflescope should be switched off.

- Press and hold the **ON (3)** button. Display Off message with 3, 2, 1 countdown will appear on the screen.
- Hold **ON (3)** button until the riflescope turns off (the riflescope turns off after countdown runs out).

⚡ PiP Function

The **PiP** function (Picture-in-Picture) allows you to see both a magnified image in a special window and the main image.

- Press and hold the **ZOOM** button **(5)** to turn on/off the **PiP** function.
- To change digital magnification in the **PiP** window, rotate the controller ring **(6)**, while the icon ⊕ is visible on the screen.
- The magnified image is displayed in a special window, with the full magnification being used.
- The rest of the image is displayed only with the optical magnification (digital magnification is off).
- When **PiP** is turned off the main image will retain the magnification set for the **PiP** window.
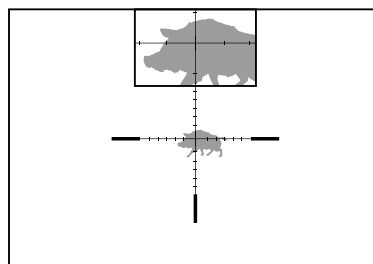
⚡ Stream Vision

Digex night vision digital riflescopes support **Stream Vision** technology, which allows you to stream an image from the display of your riflescope to a smartphone or a tablet PC via Wi-Fi in real time.

You can find detailed instructions on **Stream Vision** in the separate brochure or at the website **www.pulsar-vision.com**.

Note: the **Stream Vision** application allows you to update the firmware features of your **Pulsar** device.

How to update instructions are as below:

1. Download free of charge **Stream Vision** App on **Google Play** or **App Store**. Scan the QR codes or follow the links to download **Stream Vision** free of charge:

STREAM VISION

ANDROID APP ON
Google play

https://play.google.com/store/apps/ details?id=com.yukon.app

Available on the
App Store

https://apps.apple.com/us/app/ stream-vision/id1069593770

2. Connect your **Pulsar** device to your mobile device (smartphone or tablet).
3. Launch **Stream Vision** and go to section **My Devices**.
4. Select your **Pulsar** device and press **Check Updates**.

Important:

- if your **Pulsar** device is connected to the phone, please turn on mobile data (GPRS/3G/4G) on your mobile device to download an update;
- if your **Pulsar** device is not connected to your phone, but it's already in the **My Devices** section, you may use Wi-Fi to download an update.

5. Wait for the update to download and install. **Pulsar** device will reboot and will be ready to operate.

USB connection

- Press the **ON** button **(3)** briefly to power the riflescope on (the computer will not detect the riflescope if it is turned off).
- Connect one end of the USB cable to the riflescope MicroUSB port **(10)**, and the other one to the port on your computer.
- The riflescope is detected by the computer automatically and no installation of drivers is required.
- After a few seconds, two connection options appear on the display: **Power** and **Memory Card**.
- Rotate the controller ring **(6)** to select a connection option.
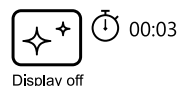- Press the controller button **(6)** briefly to confirm your selection.

Connection options

Power. Upon choosing this mode, your PC is used as an external power supply. The icon ▬■ appears in the status bar. The riflescope continues operating and all functions are accessible.

The battery pack installed in the riflescope is not charged.

USB connection

▶ Use as power
Use as memory card
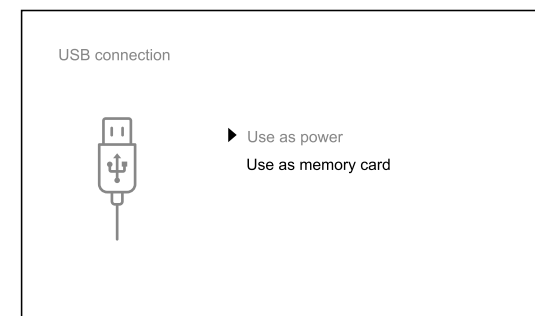
Memory card. Upon choosing this mode, the computer detects the riflescope as a flash card. This mode is designed to manage the files saved in the riflescope's memory. The riflescope's functions are not available in this mode; the riflescope turns on. The device continues to operate after being disconnected from the computer.

If a video was being recorded at the moment of connection, the recording will stop and will be saved.

USB disconnection

• When the USB is disconnected from the riflescope in the **Power** mode, the riflescope stays on powered by Battery Pack if it is sufficiently charged.

• When the USB is disconnected from the riflescope in the **Memory Card** mode, the riflescope remains switched on.

⚡ Maintenance

Maintenance should be carried out at least twice a year and includes the following steps:

• Wipe the exterior metal and plastic parts with a cotton cloth to remove dust and dirt. Silicone grease may be used for this.

• Clean the electric contacts of the battery pack and battery slots on the riflescope using a non-greasy organic solvent.

• Check the optics of the eyepiece and the lens. If necessary, remove dust and dirt from the optics (preferably using a non-contact method). Cleaning of the exterior surfaces of the optics should be done with products designed specially for this purpose.

⚡ Troubleshooting

The table shows a list of problems that may occur when using the riflescope. Carry out the recommended checks and troubleshooting steps in the order listed in the table. If there are defects that are not listed below, or it is impossible to repair the defect yourself, return the riflescope for repair/service.

MALFUNCTION	POSSIBLE CAUSE	CORRECTIVE ACTION
Riflescope will not turn on.	The batteries are completely discharged.	Charge the battery.
Riflescope will not work from an external power source.	USB cable is damaged.	Replace USB cable.
	External power source is discharged.	Charge the external power source.
Image is too dark.	Low brightness or contrast level is set.	Adjust brightness or contrast.
Colour bars appear on the display or the image disappeared.	The device was exposed to static stress during operation.	After the exposure to static stress, the device may either reboot automatically or require switching off and on again.
Image of the aiming reticle is clear while that of the object is fuzzy.	There is dust or condensation on the interior or exterior optical surfaces of the lens.	Wipe off the outside optical surfaces with a soft cotton cloth. Let the riflescope dry by leaving it in a warm environment for 4 hours.
	The lens is not focused.	Adjust the image sharpness by rotating the objective lens focus ring.
The point of impact shifts after firing rounds.	The riflescope is not mounted securely or the mount is not fixed on the riflescope.	Check that the riflescope has been securely mounted. Make sure that the same type and caliber ammunition is being used as when the riflescope and weapon were initially zeroed. If you have zeroed the riflescope in summer and then use it in winter (or vice versa), a change in the zero point cannot be discounted.

MALFUNCTION	POSSIBLE CAUSE	CORRECTIVE ACTION
The riflescope will not focus.	Incorrect settings.	Adjust the riflescope according to the **Powering on and Image Setting** section. Check the exterior surfaces of the lens and eyepiece; where necessary, wipe them free from dust, condensation, frost, etc. In cold weather, you can use special anti-fogging coatings (e.g., for corrective glasses).
Smartphone or tablet cannot be connected to the riflescope.	The password in the riflescope was changed.	Delete the network and connect again typing the password saved in the riflescope.
	The device is in an area with a large number of Wi-Fi networks that may cause interference.	To ensure stable Wi-Fi connection, relocate the device to an area with fewer Wi-Fi networks or to an area with none.
Missing or interrupted broadcasting via Wi-Fi.	The smartphone or tablet is out of range of strong Wi-Fi signal. There are obstacles between the device and the smartphone or tablet (e.g., concrete walls).	Relocate smartphone or tablet into line of sight of the Wi-Fi signal.
Image is over-exposed.	Use the riflescope with a closed lens cover.	
There are several light or black dots (pixels) on the riflescope's display or sensor.	Presence of these pixels is caused by the peculiarities of the sensor or display production technology and is not a defect.	
Poor image quality or reduced detection distance.	These problems may occur during observation in adverse weather conditions (e.g., snow, rain, fog etc.).	

Repair of the device is possible within 5 years.

⚡ Specification techniques

MODÈLE DIGEX	Digex N450	Digex N455
SKU	76641	76642
CARACTÉRISTIQUES OPTIQUES		
Mise au point d'objectif, mm	50	
Ouverture du diaphragme, D/f'	1:1,2	
Grossissement x	4 - 16 (zoom numérique)	
Champ de vision (horizontal, grossissement 4x), °	6,5	
Champ de vision (horizontal, grossissement 4x), m@100 m	11,4	
Enlèvement de la pupille de sortie, mm	50	
Distance minimum de mise au point, m	5	
Distance de mise au point de l'oculaire, dioptres	-3/+5	
Distance de detection d'animal hauteur 1,7 m, m	550	500
REPÈRE DE VISÉE		
Valeur graduée d'un clic (H/V), mm@100 m – en amplifiant, x	10 – 4x 5 – 8x 2,5 – 16x	
Réserve de marche du repère de visée (H/V), mm@100 m	2000 (± 100 clics)	
SPÉCIFICATIONS ÉLECTRONIQUES		
Type et résolution de capteur	HD CMOS/1280x720	
Type et résolution d'écran	AMOLED/1024x768	
ENREGISTREUR VIDÉO		
Résolution vidéo/ photo, pixels	1024x768	
Format vidéo/ photo	.mp4 / .jpg	
Mémoire intégrée	16 Gb	
CANAL WI-FI		
Fréquence	2,4 GHz	
Standard	802.11 b/g	
CARACTÉRISTIQUES DE FONCTIONNEMENT		
Diamètre du boîtier de viseur pour le montage des anneaux de fixation, mm	30	
Temps de fonctionnement à partir d'un ensemble de piles (APS3 intégré et APS2 amovible) à t = 22 ° C, h (Wi-Fi désactivé)	5,5	
Alimentation électrique, V	3,0–4,2	
Type / Capacité de batterie/ Tension nominale de sortie	Batterie li-ion APS2 / 2000 mAh / DC 3,7 V (amovible) APS3 / 3200 mAh / DC 3,7 V (intégré)	
Alimentation externe	Micro USB type B (5 V)	
Résistance d'impact maximum pour une carabine tranchante, Joules	6000	
Résistance d'impact maximum pour carabine à tube lisse, calibre	12	
Degré de protection, code IP (IEC60529)	IPX7	
Température de fonctionnement, °C	-25 – +50	
Dimensions (LxHxW), mm	378x78x78	
Poids (avec piles, sans illuminateur IR), kg	0,95	

MODÈLE DIGEX	Digex N450	Digex N455
Illuminateur IR amovible		
Type	LED	
Longueur d'onde de rayonnement, nm	850	940
Diamètre de la lentille, mm	26	
Puissance optique de l'illuminateur IR, mW	Jusqu'à 300	Jusqu'à 250
Alimentation électrique, V	3 – 4,2	
Temps moyen de fonctionnement, h	7	
Gamme de température de fonctionnement, °C	-25 – +50	
Compatibilité avec des viseurs	Digex	
Dimensions (LxHxW), mm	129x84x75	
Poids (avec une batterie), kg	0,14	

⚡ Lot de livraison

- Le viseur numérique de vision nocturne DIGEX
- Housse
- Une batterie rechargeable APS2 (3 pcs.)
- Lingettes pour nettoyer l'optique
- Chargeur de batterie APS
- Manuel d'utilisation
- Chargeur secteur
- Certificat de garantie
- Câble USB
- Couvercle de batterie APS3
- Illuminateur IR
- Clé à six pans

⚡ Description

Les viseurs numériques de vision nocturne DIGEX sont conçus pour être utilisés sur des armes de chasse pendant la nuit et le jour. Dans des conditions de luminosité faible (pas de lumière des étoiles ni de la lune), il est recommandé d'utiliser un illuminateur IR d'une longueur d'onde de 850 nm ou 940 nm.

Champs d'application des viseurs: chasse, observation et orientation dans des conditions de visibilité réduite.

⚡ Caractéristiques distinctives

- Haute plage de détection
- Image de haute résolution
- Algorithme logiciel d'augmentation supplémentaire de la sensibilité «SumLight™»
- Résistance aux chocs en cas de gros calibres: 12 cal., 9.3x64, .375H&H
- Montage avec des anneaux standard de 30mm
- Activation instantanée
- Boîtier métallique robuste
- Etanchéité complète (IPX7)
- Options des repères personnalisées
- Écran couleur de moniteur HD AMOLED
- Enregistrement avec son des photos et des vidéos

- Fonction l'image dans l'image
- Support d'application Stream Vision
- Fonctionnalité extensible (possibilité de mettre à jour le logiciel du viseur à l'aide de l'application gratuite Stream Vision)
- Gestion pratique
- Système d'alimentation combiné B-Pack mini
- Design fonctionnel et ergonomique
- Large plage de température de fonctionnement (-25 ÷ +50°C)

⚡ Fonctions et modes utiles

- Interface de l'utilisateur pratique
- Télémètre stadiométrique (estimation de la distance à l'objet)
- Gyroscope accéléromètre intégré à 3 axes (indication de l'angle de déviation)
- Zoom numérique souple
- Un grand nombre des repères électroniques
- Les repères évolutives (les gradations de repère changent proportionnellement au Zoom)
- 5 profils de tir de réglage (10 distances dans le profil)
- Fonction de tir de réglage par un coup unique
- Tir de réglage précis «Zoom Zeroing» (réduction de la valeur d'un clic lorsque vous augmentez Zoom)
- Fonction de tir de réglage «Freeze Zeroing»
- Fonction d'arrêt de moniteur
- Wi-fi Télécommande et surveillance d'un smartphone

Enregistrement video

- Enregistreur photo-vidéo intégré avec enregistrement sonore
- 16 Gb de mémoire interne
- Intégration avec des appareils IOS et Android
- Youtube. Streaming vidéo en direct et enregistrement sur Internet via un smartphone et à l'aide de l'application gratuite Stream Vision

Batterie

- Batterie APS3 intégrée de 3200 mAh
- Batteries Li-Ion à changement rapide APS2 / APS3
- Possibilité de charger les batteries intégrées et externes APS2 et APS3 via microUSB

⚡ Éléments et contrôles

1. Œillère en caoutchouc
2. Anneau de réglage dioptrique d'oculaire
3. Bouton **MARCHE (ON)**
4. Bouton **ENREGISREMENT (REC)**
5. Bouton **ZOOM**
6. **Controlleur**
7. Couvercle de compartiment de batterie
8. Batterie APS2
9. Couvercle de compartiment de micro-USB
10. Connecteur de micro-USB
11. Bague de mise au point de l'objectif
12. Bouchon d'objectif