



CONTENT

INTRODUCTION	2
FEATURES Detection range Application scenarios Reservation	3 4 4 4
PACKAGE CONTENTS	5
OPERATION Battery charging Turn on/off Button and input functions Lens settings Colors Distance determination Capture/record	5 5 6 7 8 9
SETTINGS Image settings System settings	9 9 10
APPLICATION	12
MODELS	13

INTRODUTION

DEVICE DESCRIPTION

NVECTECH PATRIOT thermal imaging monoculars were created specially for defenders of Ukraine. All basic requirements were taken into account for thermal object detection in bad weather conditions and resistance to external factors. These monoculars have a locking function friend-foe. So that noone could use it except the owner. PATRIOT has the fastest processor that processes the signal from the matrix 2 times faster than a conventional thermal imager. Ultrasensitive matrix ~20 mk, innovation of 2023, was implemented. The application for smartphones was developed together with DEVCONSTRACT (Turkey). Each monocular designed by NVECTECH (Ukraine) and DEVCONSTRACT (Turkey) has absorbed the best components on the world market.

FEATURES



Strong aluminum frame. Withstands high load.

Joint development: NVECTECH (Ukraine) and DEVCONSTRACT (Turkey).





Working time over 12 hours.
Supports all types bank tellers.

Software. For Android and iOS developed by DEVCONSTRACT.

Convenient menu and





Ultraclear display SONY 1024x768 OLED frost resistant. Maximum brightness image. V0x technology.

Range-finder: With automatic definition distance to several goals.





The most sensitive matrix ~20mK (384x288px). Exclusively for NVECTECH.

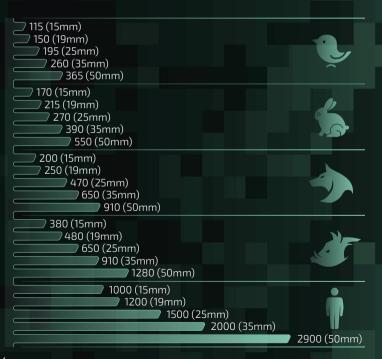
A diverse selection of lenses: 19 mm – 1200 m; 25 mm – 1500 m; 35 mm – 2000 m;

50 mm - 2900 m.



Detection range

The figure below shows a comparative range performance of a monocular with different lenses configurations. Data is based on human detection 1.8 m tall, boar 0.7 m tall, wolf tall 0.5 m, a rabbit 0.3 m high and a bird 0.2 m high.



Application scenarios

Observation of animals Adventures in nature Protection of law and order Emergency search and rescue

Reservation



Avoid hard objects.



Do not point the lens directly at the sun or high-temperature light sources.



Do not overuse the device cold or hot environment.



Charge the battery once every three months when it was not in use.



Make sure the USB cover is tight closed in the water environment.



Do not disassemble or modify the device independently in any way.

PACKAGE CONTENTS

Monocular	1 pc.
Lace	1 pc.
USB cable	1 рс.
Video cable	1 рс.
Bag	1 pc.
Instruction	1 pc.



Monocular 1 pc.



USB cable 1 pc.



Bag 1 pc.



Lace 1 pc.



Video cable 1 pc.



Instruction 1 pc.

OPERATION

Battery charging

The battery should be fully charged before use.

Note: The battery is not user replaceable.

To charge the battery, follow these steps:

- 1. Remove the USB port cover.
- 2. Connect the cable from the kit to the USB port.
- 3. Insert the opposite end of the cable into the source USB power supply.



Note: When the charging indicator on the device turns red, it means you need to immediately charge the device. The indicator lights red when it charges, and turns green when charging will complete. After it transforms to green, stop charging.

Turn on/off.



Hold down the POWER button within a second.

ON

Hold down the POWER button within four seconds.

OFF

Button and input functions



	Press and hold	Press	Double press
U	Feeding on/off	Regime expectation	В.
Q	Remove video	Do photo	
	⊕ Increase ⊝ Reduce	Colors □ Distance	Main menu

Lens settings

Diopter adjustment

Adjust the position while looking into the eyepiece diopter level to optimize sharpness image on the OLED display.



Focusing

Adjust the focus as needed lens manually



Scaling



Colors



Red



Gold



Black



Green



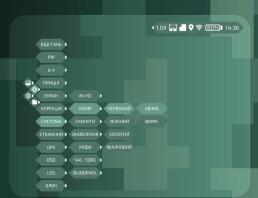
Violet



Push the lever to the right to change the pseudo color.



By default, there are six color palettes. Unwanted colors can be turned off in system settings.



Distance determination

Press the switch to turn it on left or off the same way.





Distance measurement function

Capture/Record

Press to take photos. Badge photo in the upper left corner will flash once.

Press and hold to record video.
A flashing recording icon will appear at the top in the left corner, and the recording will begin.
Click again and hold to stop recording.

SETTINGS

Press the lever twice to enter the menu settings.

Note: select by moving the lever and short press the lever to confirm the selection.

Image settings

Press on to enter the setting menu image. There are five submenus for setting image, it is "Mode", "Sharpness", "Noise", "Brightness" and "Contrast".



РЕЖИМ

Detailing the background and purpose of wide dynamics.

Makes the image clearer.

The recommended value is 5.

ШУМ 0 - 10 Makes the image cleaner. The recommended value is 5.

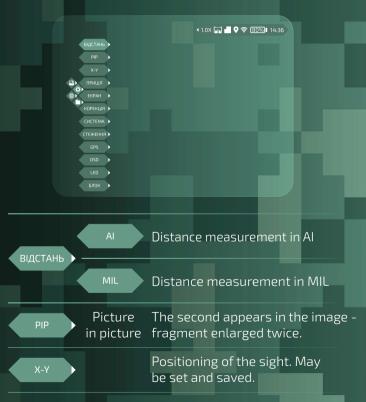
RCKPABICTL 0 - 10 Image brightness.

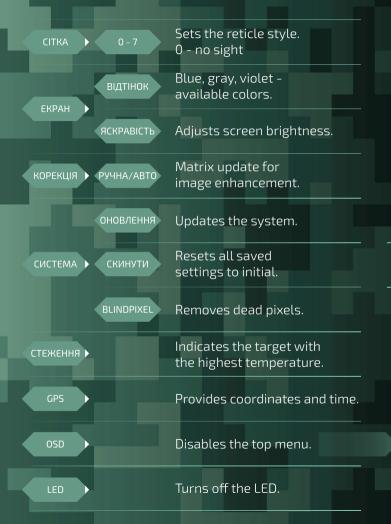
The recommended value is 5.

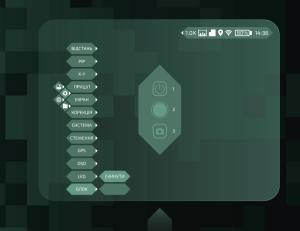
KOHTPACT 0 - 10 Image contrast.
The recommended value is 5.

System settings

Press to enter the options menu systems. Select by moving the lever, and for confirm by briefly pressing the lever.







Вlocks the device with a set of serial control button presses.





14:36 Indicates the time.

80% Battery charge.

Network signal strength.

• Geolocation.

Memory card.

Determining the distance to the object.

1.0X Multiplicity of increase.

APPLICATION

To control the device and view photos and video in real time use application that you can find in the Appstore or Playmarket.



Playmarket



AppStore



MODELS













NVECTECH models	PATRIOT L19	PATRIOT L25	PATRIOT L35	PATRIOT L50	PATRIOT Pro L50	PATRIOT H50	
Lens	19mm (F#0,9 man. focus)	25mm (F#1,0 man. focus)	35mm (F#1,0 man. focus)	50mm (F#1,0 man. focus)	25-50mm (F#1,0 man. focus)	50mm (F#1,0 man. focus)	
Field of view angle	13,8° x 10,4°	10,5° x 7,9°	7,5° x 5,6°	5,3° >	< 4,0°	8,8° × 7,0°	
Resolution/ pixel spacing			384x288/12um			640x512/ 12um	
NETD			~20mK@300k			~30mK@300k	
Optical Zoom	1		1x		2x (Dual Field of View)	1x	
Detector type Vox microbolometer							
Frame rate		9	50Hz				
Spectral range			8~14µm				
Digital zoom		1>	к ~ бх continuoı	JS			

NVECTECH













NVECTECH models PATRIOT L19 PATRIOT L25 PATRIOT L35 PATRIOT L50 PATRIOT PATRIOT H50

Noise reduction

3D DNR

Image enhancement

IDE, HDR

Display

OLED SONY 0,39 inches resolution 1024x768

Diopter adjustment

-5 ~ +5

The diameter of the outlet opening

40mm

Reticle

6+, adjustable coordinates

Memory cards

16Gb

32Gb

16Gb

Heat tracker

Так

Weight

470 gr

600 gr

470 gr

NVECTECH

Size













PATRIOT NVECTECH models PATRIOT L19 PATRIOT L35 PATRIOT L50 PATRIOT H50 PATRIOT L25 Pro L50 Photo, recording, playback Yes GPS Yes Internal Li-ion battery (18650 Li battery x 2) Battery type Battery life Continuous operation time ≥ 12 hours. Connection Type-C port for charging, reading data, outputting analog video WI-FI Two-way Wi-Fi connection, NVECTECH APP remote control -25°C ~ +55°C Working temperature Protection level IP67, 1 meter drop resistance 67mm x 63mm x 190mm

NVECTECH

Модель/Model:

Серійний номер/Serial number

Дата продажу/Date of sale

Печатка та підпис продавця/ Seal and signature of the seller

Kosmichna st. 49-g, Dnipro, Ukrane

Україна, м. Дніпро, вул. Космічна 49-г

site: www.nvectech.com e-mail: info@nvectech.com

Manufacturer: LTD NVECTECH

- +38 093 698 11 67
- +38 098 758 75 85
- +38 063 785 78 55
- +38 095 761 13 92

Warranty 2 years!

www.nvectech.com





