PHAZZER® NV3

Monocular
Digital Day/Night Vision
With 8X ZOOM

Operator Instructions
1-NV3-B / 1-NV3-C

8/16/2019 Version 1.0

Contents

Overview

Name: PhaZZer Monocular NV3 Digital Day/Night Vision with 8X Zoom - Black or Camouflage

Model: 1-NV3-B or 1-NV3-C

Features:

The PhaZZer NV3 Day/Night Vision Monocular can be used in complete darkness or low light environments.

- The viewing distance in complete darkness is Infinity
- The viewing distance in a low light environment is 200 meters (650 ft)

The PhaZZer NV3 can be used during the day or at night. If the light is too strong during the day, it will get a better visual effect when the objective lens shelter is on. At night, the objective lens shelter should be removed for better observation and optimal performance. It comes equipped with photo, video, and playback functions and with zoom capabilities of 5X optical zoom and 8X digital zoom.

Operating Hints

Phazzer NV3 Day/Night Vision Monocular is the optimal instrument to obtain images of objects in low light and dark environments.

It is equipped with an Infrared illuminator for optimal use in dark environments.

The infrared illuminator should be turned on when in use in a dark environment. You can adjust the brightness of the infrared illuminator according to the distance of the object. It is also equipped with a low-level illuminance

transducer.

If there is any light source, such as streetlamps or moon-light, the infrared illuminator does not need to be turned on. You can adjust the focal length of the objective lens and the screen brightness to achieve a clear image.

Components
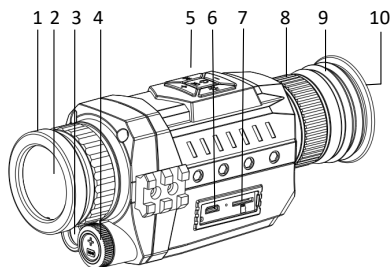
1 - Objective focus wheel
2 - Objective lens
3 - Infrared illuminator
4 - Battery compartment
5 - Operating zone
6 - USB 2.0 socket

7 - TF card socket
8 - Dioptre ring
9 - Eyecup
10 - Ocular lens

11 12 13 14 15
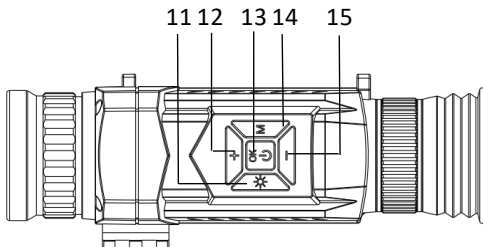
11 - Menu Switch for auxiliary light and adjustment of brightness of screen
12 - UP
13 - POWER/Function Check

14 - Functions(for photo shooting, video shooting, videoing, playback and video output)
15 - DOWN

Operating Instructions

Battery Installation

The PhaZZer NV3 Day/ Night Vision Monocular comes equipped with a 16340mAh lithium-ion battery. To unscrew the battery cover, turn counterclockwise. Insert the battery with negative electrodes bottomed, and then tighten the battery cover clockwise.

Battery runtime is approx.2 hrs. without the use of the infrared illuminator and approx. 1 hr. with the use of the infrared illuminator.

Power On

Long press the" Power/OK" Switch (button#13) for 3 seconds while looking through the Eyecup (Image #10) The monocular is on when the screen displays the lightened PhaZZer Screen and icons are shown. (Please refer to Picture 1). The monocular is now in still photo/view mode.

Power Off

In any mode, long press the "Power/OK" Switch (button#13) for 2 seconds to power the monocular off.

Icons Description

6737   X 3

1 - Current mode (Photo shooting)

2 - Image Capacity Remaining

3 - magnification range

4 - TF card in

5 - Battery charge indicator

6 - System time

2019/05/02 23:10:

Picture 1

Scenery Observation

In the observing (photo/view) mode, aim the monocular at the objects to be observed. Look at the screen from Eyecup (Image #9).

• Adjust the diopter ring (image #8) to focus and sharpen the images.

PHAZZER® NV3

• Adjust the objective focus wheel (image #1) to get the sharpest image

The Automatic fine-tuning control, that is operated by the viewer, will adjust according to the average brightness of the central focal point.

Digital zoom is implemented by pressing the "+" (Up button #12) and "-" (Down button #15) ranging from 1X to 8X.

If the light source is bright enough, turn the auxiliary light off to save the battery power.

If the light source is not bright enough, turn the auxiliary light on and adjust the brightness accordingly.

Brightness Adjustment

Brightness Adjustment

While in photo/view mode, press the light switch (button #11) to activate the brightness adjustment menu (as in Picture 2), the number after "SCREEN:" is the current brightness of the screen. The brightness ranges from 1 to 10 by pressing the "+ " (Up button #12) for a lighter screen and the " -" (Down button #15) for a darker screen. Once appropriate brightness is achieved, the screen brightness adjustment mode will automatically shut off after 3 seconds.

Adjustment for Illumination

While in the photo/view or video mode, press the light switch (button #11) twice to enter the auxiliary light adjustment menu (as in Picture 3). The index after the "IR LED" displays the brightness of the auxiliary light. In normal conditions you can get a good view at range 2.

Press the "+" (Up button #12) or the "–" (Down button #15) to adjust the infrared illuminator ranged from 0 to 9 (9-lightest, 0-turn off). Once appropriate brightness is achieved, the auxiliary light adjustment mode will automatically shut off after 3 seconds.

Screen Brightness and Infrared Illuminator Adjustment

Picture 2   Picture 3

Photo Function

Please Note:

In any mode above, the menu will disappear if there is no operation performed within 3 seconds.

Turn the auxiliary light off to save the power when the light

source is light enough. Don't block the auxiliary light when it is turned on.

Photo Shooting

The PhaZZer NV3 Day/Night Vision Monocular enters the photo/view mode automatically after powering the device on. (Picture 1). You can observe the scenery or take still photos.

You can take still photos by pressing the "Power/OK" (button "#13") with one short press. Each press takes one still photo. The photo will be saved automatically to the TF card.

The remaining image capacity is counted by the storage in the TF card and will be displayed on the screen. The capacity is approximate and may vary slightly from actual capacity.

Video and Playback Functions

Video

In the photo/view mode, short press "M" (Mode button #14) to activate the video mode. Press the "Power/OK" (button #13) to start the video (shown as "START"). The time shown in the left corner shows the video record time. Press "Power/OK" (button #13) again to stop the video recording. (shown as "STOP"). In the video mode, the video clips will be saved in the TF card automatically. When the video recording ends, time shown in the left corner shows the remaining time available in the storage of TF card.

Playback

In the photo/view mode, short press the "M" (Mode button

#14) to use the playback function. In the playback mode, press the "+" (Up button #12) and the "-" (Down button #15) to choose the photos and videos for playback. When you have located the photos or video to playback, press the "Power/OK " (button #13) to view them.

Tips: In the video recording process, if the device suddenly loses power, an error has occurred. This error can occur when you check the video in the playback mode and is due to a corrupted file.

Correction: To correct the error, you must connect the NV3 device to your computer and format or delete the corrupted file from the TF card.

Tips: You can not use the screen brightness and illuminator brightness functions in the Playback mode.

Time/Menu Setting

Time Setting

To set the current date and time you must long press the "M" (Mode button #14) to start the menu. Scroll to the "Time Setting" option using the "+" (Up button #12) or "-" (Down button #15) and short press "Power/OK" (button #13) to enter. You can switch between the year / month / day / hour / minute / second, using the "+" (Up button #12) and the "-" (Down button #15)" to adjust to correct setting then short press the "Power/OK" (button #13) to confirm.

Menu Setting

Long press the "M" (Mode button #14) to enter the menu. Use the "+" (Up button #12) and the "-" (Down button #15) to select the option you need, short press "Power/OK"

(button #13) to enter, and press "Power/OK" (button #13) when setting is done. Short press "M" (Mode button #14) to exit the menu setting mode.

Menu Descriptions

Menu Options	Optional Choices	Tips
White Balance	Auto/Sunlight/ Cloudy/ Tungsten / Fluorescent	Select due to different weather conditions.
EV	-2~+2	Adjust EV according to different light levels to get a better effect.
Audio	Yes/No	Record while video shooting or not.
Date Tag	Yes/No	Retain a date tag on the file when you are shoot-ing or not.
Time Setting		Set the system time.

Menu Options	Optional Choices	Tips
Auto Power-off	Off/One Minute/ Three Minutes	Automatically shutdown if there is not any operation after specified time.
Language Setting	English/ Chinese/ Japanese	Set language environment.
Flicker	50Hz/60Hz	
Format		Format TF card
Reset System		Reset menu parameters to factory defaults

PCs Connection

PCs Connection

The PhaZZer DV3 Day/Night Vision Monocular is equipped with a USB 2.0 interface. Connect the viewer to the computer by inserting the USB cable into the computer port. The battery is charging when the monocular connects with your PC.

Press "Power/Ok" (button #13) for 3 seconds. Choose from the function screen: Memory,PC, camera, or video mode. Select "Memory".and the Monocular can now be used as a mobile storage device, Your PC will identify the monocular automatically and read the content in the TF card. Install the "PC camera" software in the TF card to

the computer.

Restart the monocular, select "PC camera" to enter the video recording mode, a real-time video recording starts once the PC camera software is installed and the computer is on.

Select "Video" mode to view the scenery on the PC through the monocular. When connected to the PC, the battery is charging.

Auto Power Off/Power Management

The viewer will turn off automatically if there is no operation performed within 3 minutes. (Shut off the auto power-off function or specify the auto power-off time in the "Menu Setting".

The viewer will not turn off automatically in the video and playback mode.

Battery Selection

High capacity rechargeable lithium-ion battery, 16340mAh, 3.7V.

Please charge the battery for at least 10 hours before first time use.

External Power

The PhaZZer DV3 Day/Night Vision Monocular is equipped with external power. It can be charged through the USB interface, or by a standard mobile charging source.

The monocular will work continuously and will not turn off automatically when using an external power supply.

The battery will also charge when the monocular connects to an external power source.

Basic Parameters

Menu Options	Optional Choices	Tips
Optical Performance	Magnification	5
	Dimension of Objectives	φ35mm
	FOV	7°x5.25°
	Ocular Adjustable Range	±0.5
	Observing Distance (Low Light Environment)	2m~∞
Digital Performance	Sensor	Low Illumination HD 1 / 3 COMS
	Pixel	1.3 Million
	Photo	1280x1024
	Video	720P
	Display Screen	1.54 inch
	Digital Magnification	8

Configuration Standard

Basic Parameters

Power	Operating Voltage	3.7V DC
	Replaceable Battery	Rechargeable lithium-ion battery, 16340mAh
	Charging Source	5.0V/700mA Adapter
Other	Measure-ment(L*W*H)	178x72x78mm
	Weight	300g

Package Content

Items	Amount
Objective Lens Shelter	1
External Power Adapter	1
USB Cable	1
NV1-535 Monocular	1
Pouch	1
Shoulder Strip	1
Hand Grip Strip	1
16340mAh lithium-ion Battery	1
Cloths	1

Operating Environment and others

Keep the PhaZZer DV3 Day/Night Vision Monocular in it's soft pouch when not in use. Operating temperature range is -5~40°C. Relative humidity is 80%.

In order to avoid the wetness and mildew, please store the device in a clean and dry environment and avoid high pressure, mechanical damage, humidity and solar radiation.

Avoid rain and fog as much as possible, as well as dropping, bumping and collision.

Blow away any dust before wiping any optical surface, such as objective lens, ocular lens and digital illuminator. Wipe it gently using a fine, soft cloth.

When the monocular in not in use for a long period of time, please charge the battery occasionally to avoid the loss of the life of the battery.

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