



SHADOW SERIES

NIGHT VISION MINI-VIEWER
MNV100

OWNER'S MANUAL



SEIZE THE NIGHT

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PACKAGE CONTENTS

1. Night Vision Mini Viewer

2. Neck Strap

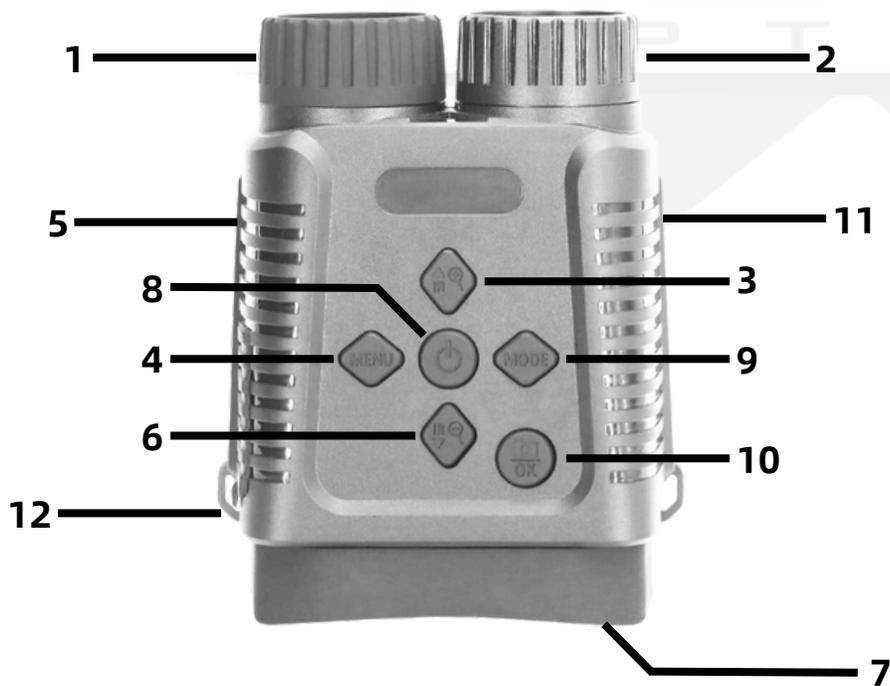
3. USB-C Charging Cable

4. Cleaning Cloth

5. Carry Sleeve



PRODUCT OVERVIEW



1	Focus Wheel	7	Screen
2	IR LED Illuminator	8	Power Button
3	IR+/Magnify+/Up Button	9	Mode Button
4	Menu Button	10	Camera/OK Button
5	USB port/Memory Card Slot Cover	11	Battery Cover (Bottom)
6	IR-/Magnify-/Down Button	12	Neck Strap Anchors

GET STARTED

1. Hold the **Power Button** until the device turns on
2. Insert a micro memory card into the port
3. Short Press the **Up/Down Buttons** to adjust IR brightness
4. Hold the **Up/Down Buttons** to adjust the magnification
5. Press the **Mode Button** to switch between Photo, Video, and Playback mode
6. Short Press the **Menu Button** to open the menu
7. Long Press the **Menu Button** to change the color palette
8. Press the **Photo Button** to record photo or video

RECORD PHOTO AND VIDEO

▶▶ RECORD MODE

	Photo Mode	3, 5, 8, 12mp
	Video Mode	960, 1080p
	Playback Mode	-

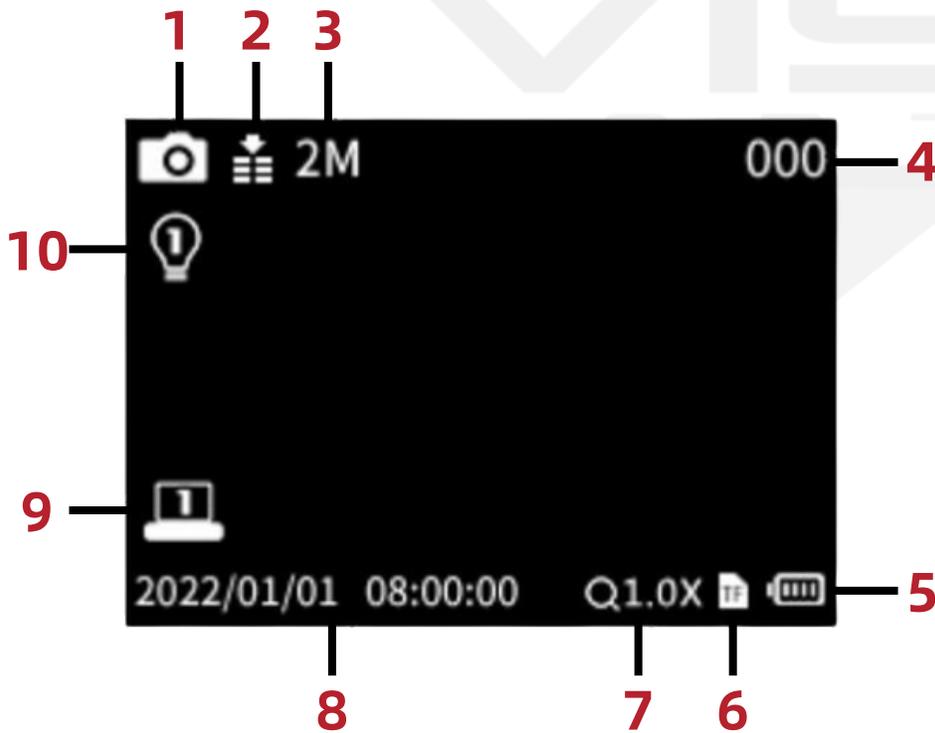
Press the **Mode Button** to switch between Photo, Video, and Playback Mode.

When **Photo Mode** is selected, short press the **Photo Button** to take a picture. Photos may be recorded at 4 resolution levels: 3mp, 5mp, 8mp and 12mp.

When **Video Mode** is selected, short press the **Photo Button** to start recording, and press again to stop recording.

Videos may be recorded at 2 resolution levels: 960p and 1080p.

▶ DISPLAY INFORMATION



1	Record Mode	6	Memory Card
2	IR Sensitivity*	7	Zoom Level
3	Resolution	8	Time Stamp
4	Photo/Video Recorded	9	Screen Brightness
5	Battery Status	10	IR Brightness**

***IR Sensitivity:** The device's responsiveness to infrared light

****IR Brightness:** The intensity of the infrared light emitted from the device

▶ MENU NAVIGATION

To change the resolution settings for recording photos and video, you will need to open the menu. Short press the **Menu Button** to open the menu. Use the **Up/Down Buttons** to navigate through the options. Press the **Photo/OK Button** to make a selection. Press the **Menu Button** to go back.

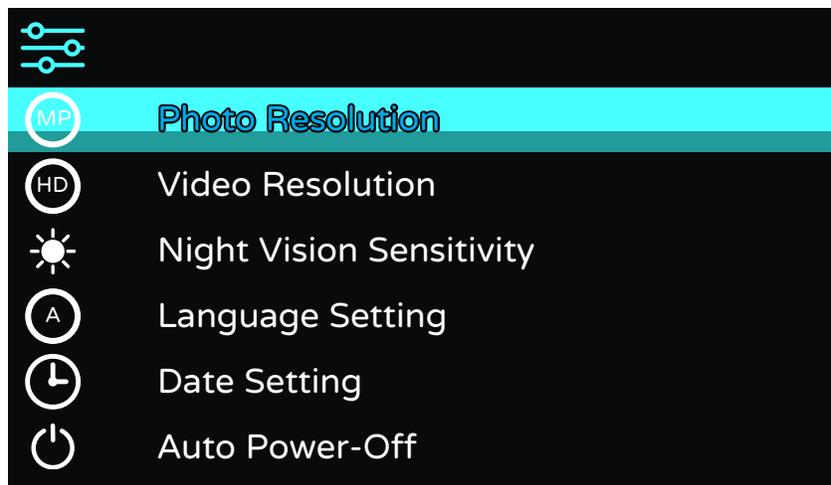
▶ RECORD RESOLUTION

To change the resolution settings for recording photos and video, you will need to open the menu.

Navigate to Photo Resolution (1) or Video Resolution (2).

Press the **Photo/OK Button** to select, then navigate to your preferred resolution. Press the **Photo/OK Button** to confirm your selection. Press the **Menu Button** to close the menu.

1 ———
2 ———

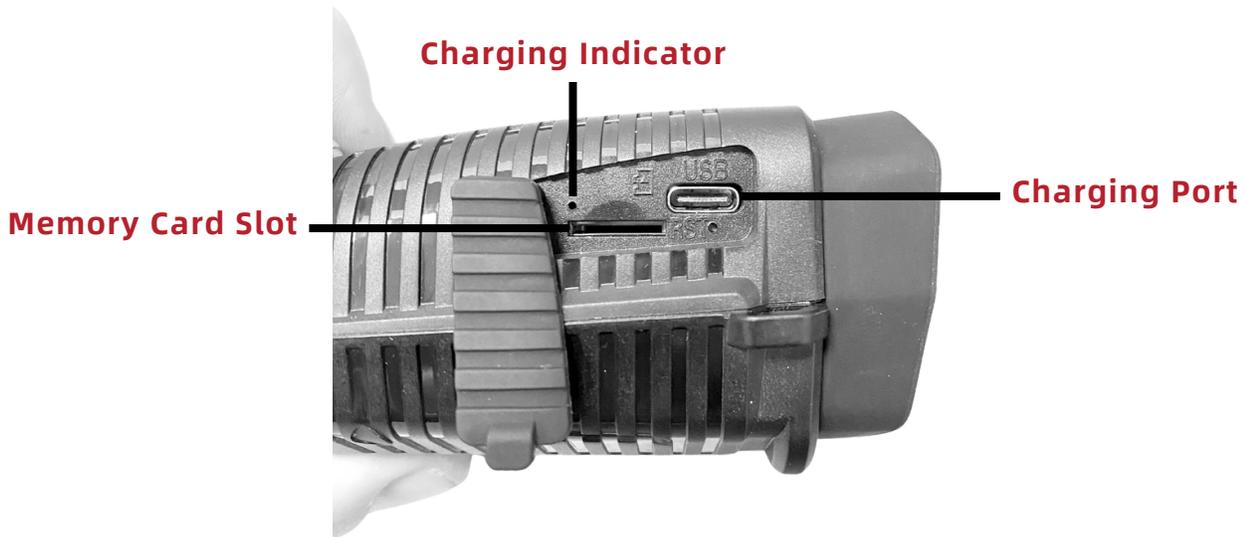


BUTTON OPERATION

Button	Mode	Press	Effect
Power	Off	Long	Power On
	On	Long	Power Off
Up	Menu Closed	Short	IR Brightness +
		Long	Magnification +
	Menu Open	Short	Navigate Up
Down	Menu Closed	Short	IR Brightness -
		Long	Magnification -
	Menu Open	Short	Navigate Down
Mode	Menu Closed	Short	Change Recording Mode
Menu	Menu Closed	Short	Open Menu
		Long	Change Color Palette
	Menu Open	Short	Back/Close Menu
Photo/OK	Menu Closed	Short	Take Photo or Start/Stop Video
	Menu Open	Short	Confirm Selection

BATTERY CHARGING

The Shadow Series Night Vision Mini Viewer has a battery operating time of about 5 hours. This will depend on how the device is used, and the IR brightness level selected. To charge the Shadow Series Night Vision Mini Viewer, it is recommended that you use the included USB-C charging cable and adapter. Open the charging port on the left side of the device and connect the USB-C charging cable.



Once connected to power, the Charging Indicator light will illuminate **red**. When the device is done charging, the Charging Indicator light will illuminate **green**, meaning that the battery is fully charged.

DOWNLOAD MEDIA

When you take photos and videos with your Shadow Series Night Vision Mini Viewer, it will be important to download your media. There are two ways to do this:

▶▶ **CARD READER**

The first option is to insert the memory card into a card reader. Eject the memory card from the device and insert it into your computer or card reader. Connect the card reader to your computer and open the file explorer. Navigate to the memory card folder, and copy your media from the card to the directory of your choice on the computer.

▶▶ **USB CABLE**

The second option is to use the USB cable. Connect your device to the computer using the supplied USB-C cable. Open the file explorer on the computer, and navigate to the “Removable Disk” icon that appears. Files stored on the device are located in a folder named “DCIM”. Copy your media to the directory of your choice on the computer.



SETTINGS

Menu Item	Function
Photo Resolution	Set the Photo Resolution. Options: 12mp, 8mp, 5mp, 3mp, 2mp, 1.3mp
Video Resolution	Set the Video Resolution. Options: 1080p, 960p
Night Vision Sensitivity	Choose the night vision sensitivity. Options: Low, Mid, High
Language Setting	Set on-screen language. Options: English, 简体中文, 繁体中文, 日本語, Deutsch, Français, Русский, Italiano, 한국, Nederlands, Español, Português
Date Setting	Set the time and date of the device
Auto Power-Off	Set the time to shut down the device for power saving if the device is left idle
Frequency	Set the light source frequency to match the electricity supply to prevent interference. Options: 50Hz, 60Hz
Date Label	Add the date stamp to recorded media
Format	Format your memory card. This will delete all files. Please copy files before confirming
Restore Factory	Restore the device to factory default settings
Version	Check the firmware version information
Screen Brightness	Adjust the screen brightness for optimal viewing

SPEC LIST

Specifications	MNV100
Magnification	2 to 8x
Night Distance	325 yd
Day Distance	600 yd
IR Output	850nm
Objective Lens	24mm
FOV	53ft @ 100yd
Display	2.4" 720x320 TFT LCD
Power Supply	Polymer Battery 2600MAH
Battery Life	9hr Day/5hr Night
IR Brightness	7 Levels
Screen Brightness	7 Levels
Dimensions	4.25"x3.5"x2"
Maximum Memory	32GB
Mount	Tripod Mount
Wi-Fi Capability	No
Photo and Video	Yes
Accessories	Lanyard, Neck Strap, USB-C Charging Cable, Charging Adapter, Carry Sleeve



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