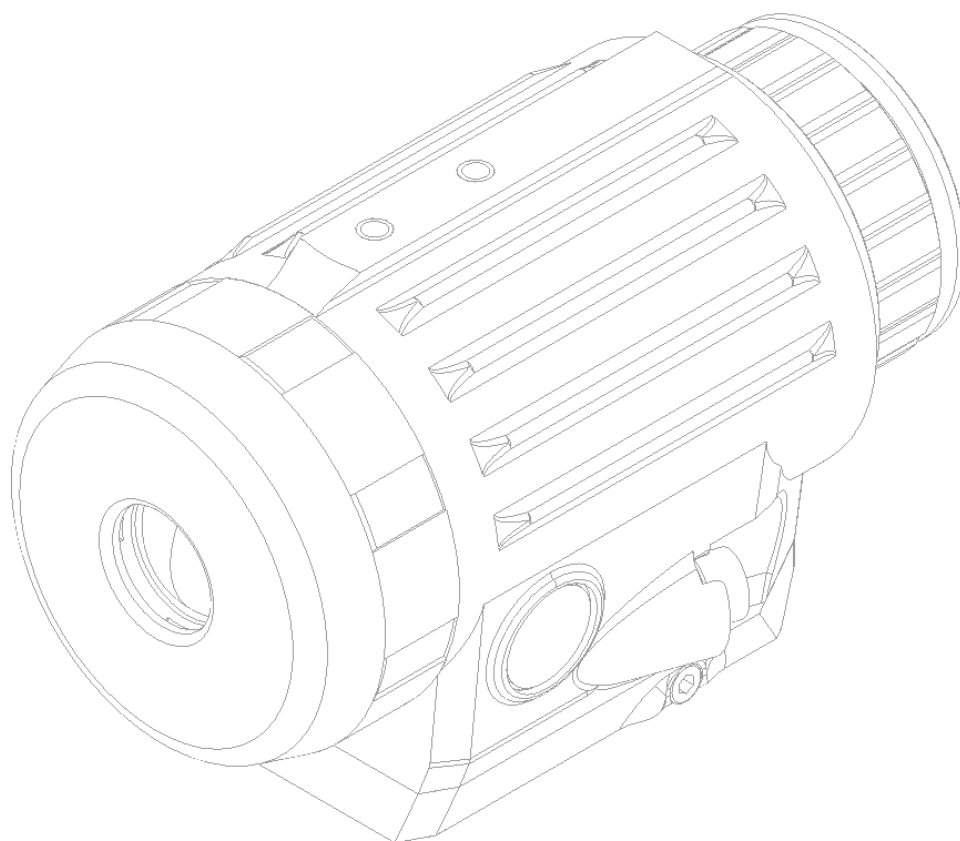




NOCTURNASYS

PREDATOR M

Thermal Vision Device



Instructions

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1.1 SAFETY SUMMARY

Before using this product, please read the operating instructions carefully to avoid incorrect use.

Keep these operating instructions well for future reference. If the device is sold or passed on, the operating instructions should be given to the new owner/user of the product.

The PREDATOR M is an electro-optical device and requires extremely careful handling. To avoid potential damage and injuries to the user during the operation of the Predator M, it is important to pay close attention to all WARNINGS, PRECAUTIONS, and NOTES.

Below are the definitions of the different warnings that appear throughout the manual:

- **WARNING:** Indicates an immediate hazard to the person using the device.
- **CAUTION:** Indicates the potential risk of damage to the device.
- **NOTE:** Emphasizes important procedures, conditions, statements, and essential instructions for the user.

1.2 GENERAL NOTES

WARNING:

- Attention: This product contains PETG or nylon, which may trigger allergic reactions! If you are allergic to PETG or nylon, it is strongly recommended to identify products containing PETG or nylon and strictly avoid any contact with them.
- Note that children should use the device only under supervision. Keep packaging materials such as plastic bags or rubber bands away from children, as they can pose a SUFFOCATION HAZARD.
- Avoid exposing the device to high temperatures. Excessive heat or improper handling can lead to short circuits, fires, and even explosions!
- Ensure that the device, particularly the lenses, are not exposed to direct sunlight. Concentrated light rays may cause fires or damage the device.
- The device contains electronic parts powered by a power source. Never leave children unattended with the device! Use it strictly according to the instructions to avoid the DANGER of ELECTRIC SHOCK!
- Please note that using the device may limit your vision and therefore increase the RISK of ACCIDENTS. Never use the device unsupervised.

CAUTION:

- The Predator M is an electro-optical device and requires careful handling at all times to avoid possible damage to the device and danger to the user.
- Do not attempt to force the controls beyond their limits, as this can damage the mechanisms.
- Before storing in the carrying case, please thoroughly clean each component of the Predator M with a dry cloth and remove all batteries.
- The device contains glass parts. Use the device only while wearing appropriate protective eyewear.

NOTES:

- The functionality of the device relies on temperature contrasts between objects to generate a clear thermal image.
 - In environments where objects have similar temperatures to their backgrounds, the device's ability to differentiate heat sources is reduced.
 - The temperature difference is reduced when ambient temperatures are uniform, such as during warm weather or in environments with minimal thermal variation.
 - The device is intended for use in dry conditions.
- Please keep all packaging materials for returning defective components.
- Do not disassemble the device! In case of a defect, contact the manufacturer.

1.3 GENERAL INFORMATION AND PURPOSE

The PREDATOR M is a thermal imaging device that offers exceptional image quality and can be used as a handheld unit, tripod-mounted, or helmet-mounted, allowing the user to operate it in any situation.

The PREDATOR M employs digital image enhancement technology by utilizing the heat emitted from surrounding objects. The optical configuration of the device includes a camera, a display, a lens and a diopter adjustment.

1.4 DEVICE NAME

PREDATOR M

XXX – Kamera Sensor

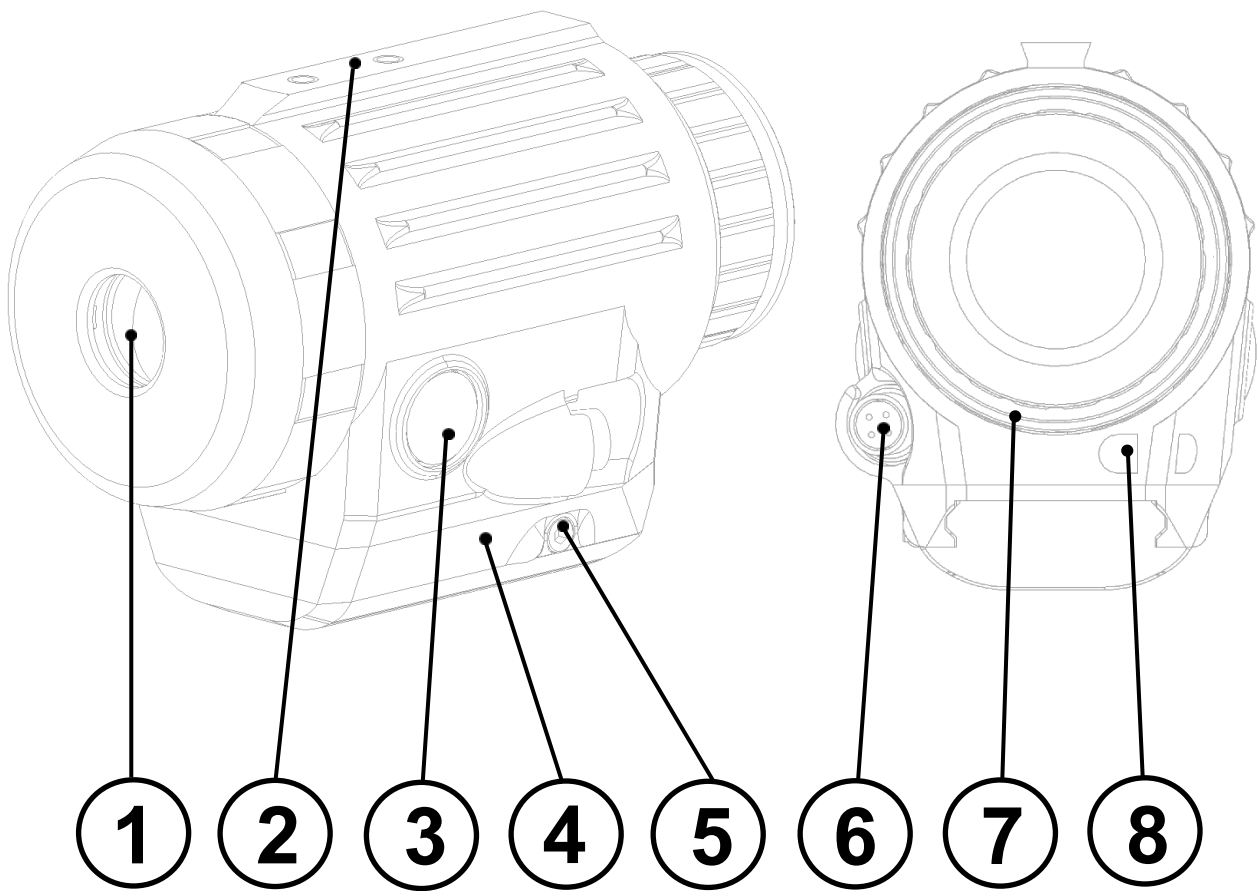
1.5 REPORTING RECOMMENDATIONS FOR DEVICE IMPROVEMENT

The manufacturer encourages users to submit improvement suggestions for the device. Please send your comments to:

Email: info@nocturasys.com

Instagram: nocturasys

1.6 SYSTEM DESCRIPTION



Number	Description
1	Lens
2	Mounting Rail
3	Operation Button (located on both sides of the device)
4	Adapter Interface
5	Fastening Screw
6	WEiPU Connector
7	Diopter Adjustment Ring
8	Retention Hole

2.1 SPECIFICATION

Mechanical Properties

Element	Technical specifications
Dimensions	98x50x65mm
Weight	?
Housing Material	PETG CF*; PA12 GF
Eyepiece Diopter	+/-4dpt

Electrical Properties:

Element	Technical specifications
Operating System Voltage	5V DC
Operating Time	External Power Source Required

Optical Components:

Element	Technical specifications
Lens	?
Sensor	?
Pixel size	12 µm
NETD	?
Spectral range	8 – 14 µm
Frame rate:	50 Hz
Color Palettes	White Hot / Black Hot

Display Properties:

Element	Technical specifications
Technology	OLED
Resolution	800x600px
Format	4:3
Signal	PAL

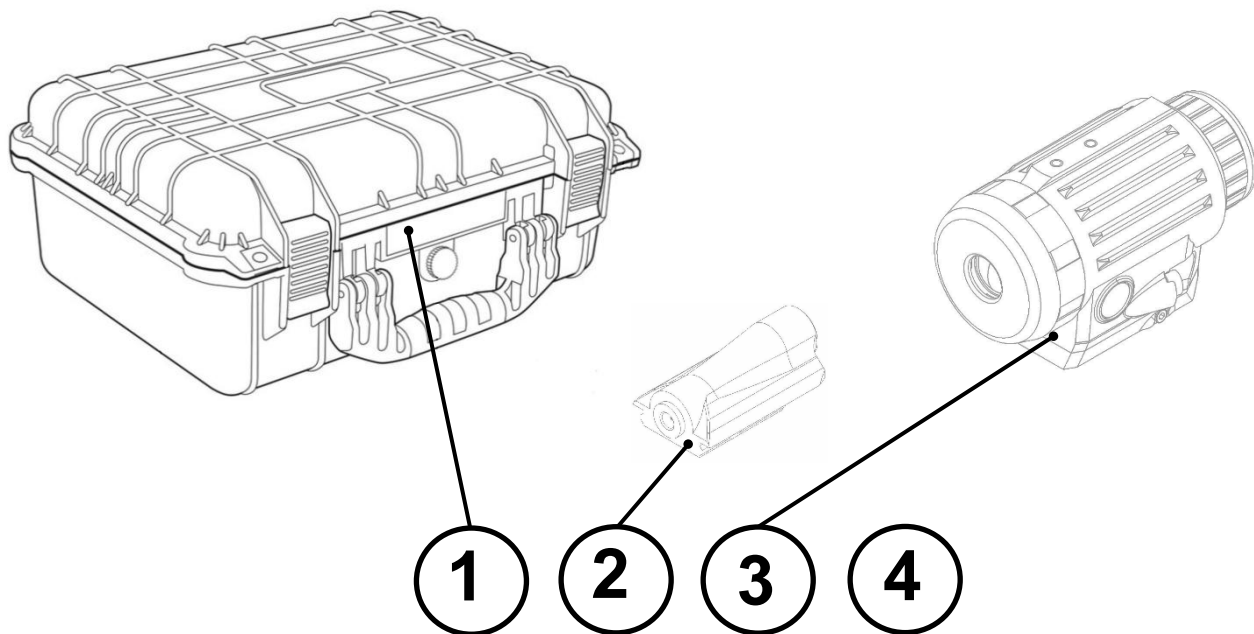
Environmental Data:

Element	Technical specifications
Working temperature	-10° to 50°C
Storage temperature	-20° to 60°C
Humidity	20% to 80%
Protection class	none – Similar to IP44

WARNING

- Use the device only within the specified operating voltage with recommended power supply!
Recommended: LOGILINK PA0316 Powerbank, Li-Po, 10000 mAh, 2x USB-A, USB-C, schwarz.

2.2 SCOPE OF DELIVERY



Number	Description
1	Storage Case
2	DC-Adapter
3	Predator M
4	Instructions (only digital)

3.1 COMMISSIONING

To ensure error-free operation, follow all steps provided in the user manual carefully and in the correct sequence.

3.2 Powering the Device

You can power the Predator M using either the WEiPU connector, the DC connector, or the battery adapter. Choose one of the connection methods below and follow the corresponding steps.

WEiPU Connector

1. Connect the WEiPU Power Cable USB-P4W-65 cable to the powerbank.
Caution: Only use the WEiPU Power Cable USB-P4W-65 provided by NocturaSys to ensure safe and proper operation.
2. Remove the dust cover of the WEiPU plug from the device and connect the WEiPU Power Cable USB-P4W-65 with the WEiPU connector.
3. The Predator M turns on automatically.

DC-Connector

1. Follow instructions on 3.5 ADAPTER INTERFACE to remove the standard adapter.
2. Insert the DC connector adapter into the designated slot and fasten the retaining screw.
3. Connect the DC to USB cable to the powerbank.
4. Remove the dust cover of the DC plug from the device and connect the DC to USB cable with the DC connector
5. Power on the Predator M by pressing the operation button on the adapter.

Battery Adapter

1. Follow instructions on 3.5 ADAPTER INTERFACE to remove the standard adapter.
2. Insert the battery adapter into the designated slot and fasten the retaining screw.
3. Remove the cap of the battery adapter and insert an appropriate battery. Ensure correct polarity by following the (+) and (–) markings on the adapter housing.
4. Screw the cap back onto the battery adapter, ensuring that the thread is properly aligned to avoid cross-threading.
5. Power on the Predator M by pressing the operation button on the adapter.

3.3 DEVICE STARTUP AND BASIC OPERATION

1. Ensure that the batteries/external power source are suitable for operation. A power source with a standard USB voltage of 5V. Recommended: LOGILINK PA0316 Powerbank, Li-Po, 10000 mAh, 2x USB-A, USB-C, black.
2. **If using the DC connector or the battery adapter**, press the power button once after a short delay. The image will appear on the display.
If using the WEiPU connector, the device powers on automatically when the connection is established.
3. Adjust the focus of the ocular by rotating the Diopter Adjustment Ring.
4. Observe the scene.
5. Use the side buttons to operate additional functions.
Press the buttons briefly (do not hold) to:
 - Zoom in or out to adjust the field of view (Standard setup).
 - Switch between color modes as needed for optimal observation (Standard setup).
 - Note: Both buttons can be individually customized with new functions through the app.

WARNING

- Immediately turn off the device in case of image issues such as noise or missing image!
- Operate the device with external power sources only under the prescribed voltage of 5V!
- Do not operate the device with defective batteries!
- Do not operate the device in wet and rainy conditions!
- Do not operate a vehicle while using the device!
- Wear appropriate protective eyewear when using the device!
- Do not point the device toward the sun or look directly into it!

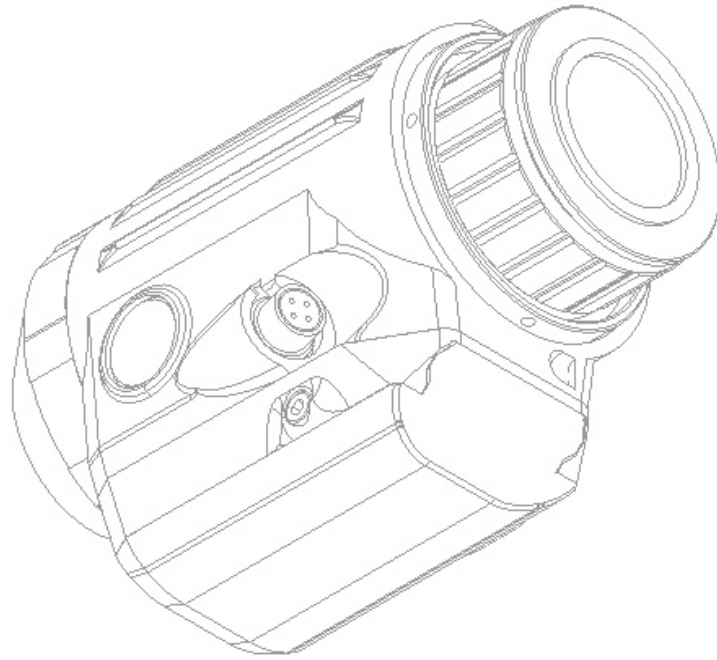
3.4 TURNING OFF AND STORING THE DEVICE

1. Turn off the device by pressing the power button if you are using any connectors.
Otherwise, proceed to step 2.
2. Disconnect the operation cable from the device and the power source.
3. Clean the lenses of the device with a dry cloth.
4. Remove all batteries.
5. Store the device in its storage case.

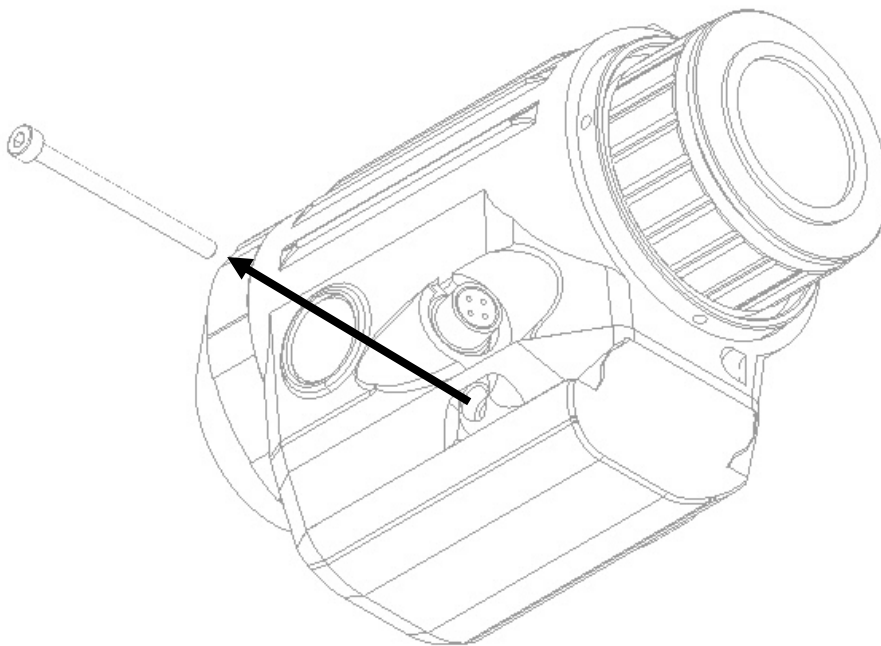
3.5 ADAPTER INTERFACE

The Predator M supports interchangeable adapters, allowing you to easily switch or upgrade adapters as needed. This provides flexibility, convenience, and ensures the device can adapt to future accessories or functionalities.

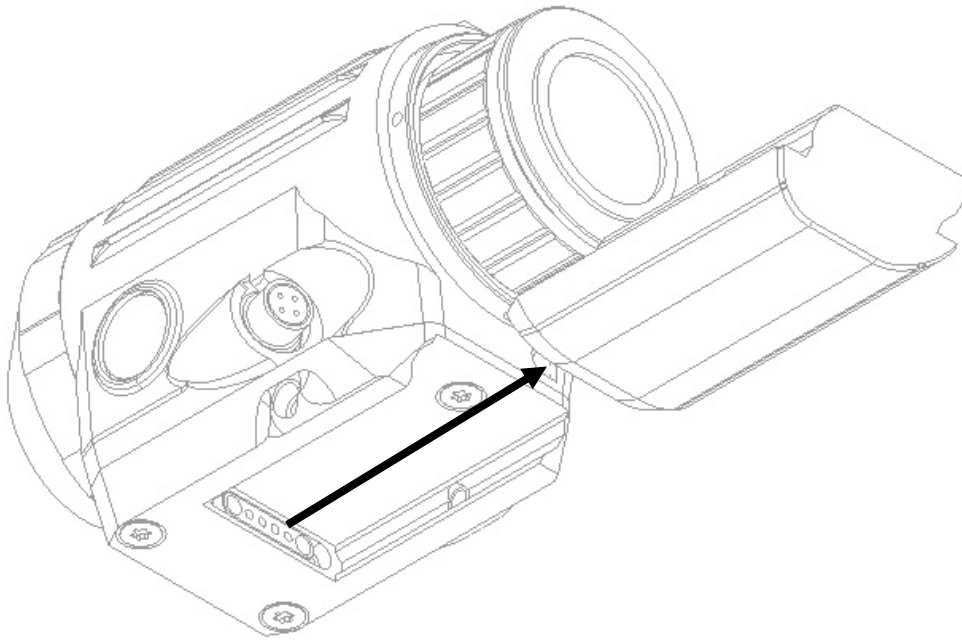
1. To ensure error-free operation, follow all steps provided in the correct sequence.



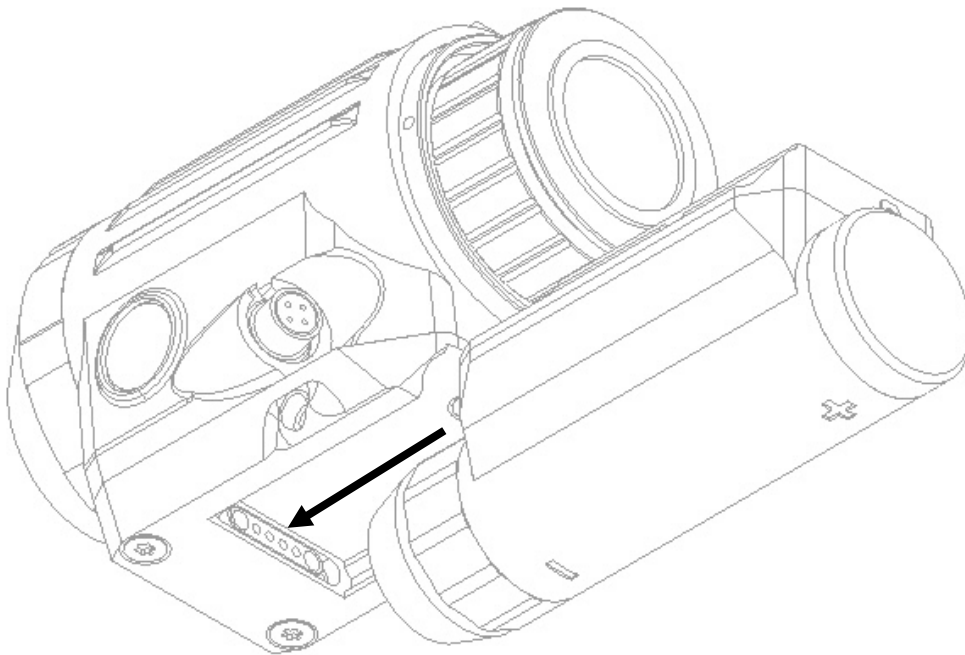
2. Unscrew and remove the fastening screw.



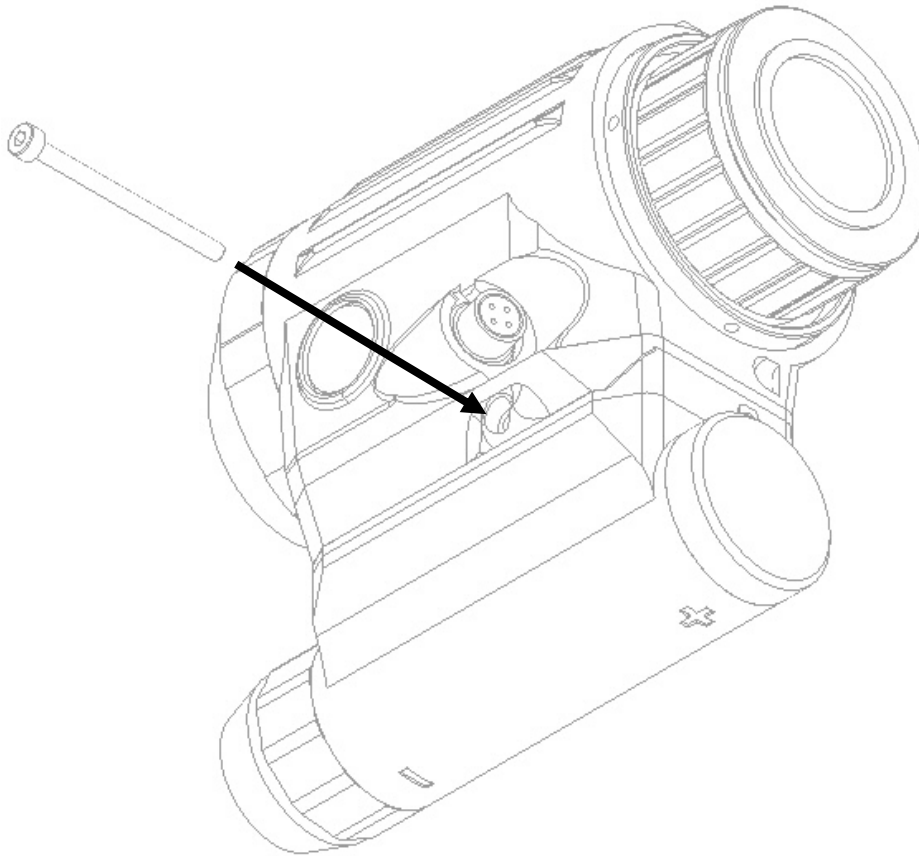
3. Slide the mounted adapter out along the rail to remove it.



4. Slide in the new adapter along the rail.



1. After aligning the parts, re-insert the fastening screw and tighten it until secure.



WARNING

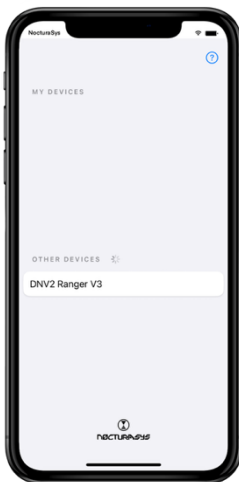
- Always disconnect the power supply before attaching or removing adapters!
- Ensure the device is powered off before loosening or tightening the fastening screw!
- Do not force the adapter when sliding it in or out — this may damage the rail interface!
- Avoid touching the connector pins to prevent contamination or damage!
- Use only original Predator M adapters and accessories!
- After installation, verify the adapter is firmly secured before operating the device!

4.1 APP CONNECTION

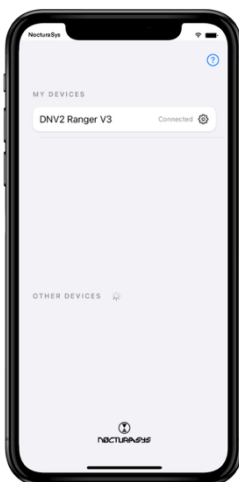
1. Download the NocturaSys app to your cell phone:
<https://www.nocturasys.com/app>



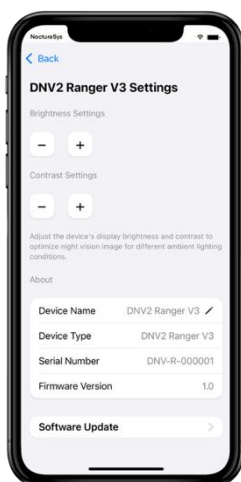
2. Switch on the Predator M according to the instructions on page 8.
3. Open the NocturaSys app and tap on your Device under “Other Devices”.



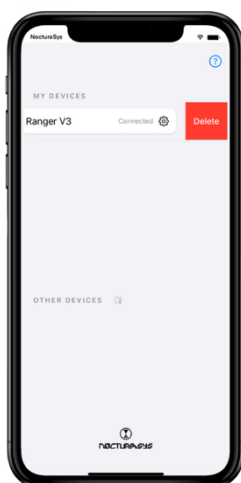
4. Your device is now under “My Devices” and ready to be connected.



5. Tap on the displayed device to make the desired brightness and contrast settings.



6. To delete the device from “My Devices”, slide it to the left.



4.2 TROUBLESHOOTING

Type of error	Troubleshooting
Graphics error	Restart the device
Loose Adapter	Check if the fastening screw is correctly installed



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