

# Technaxx® \* User Manual

## FullHD Binocular with Display TX-142

### Introduction

The Declaration of Conformity for this device is under the Internet link: **www.technaxx.de/** (in bottom bar “Konformitätserklärung”). Before using the device the first time, please read the user manual carefully.

Service phone No. for technical support: 01805 012643 (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks).

Free Email: **support@technaxx.de**

The support hotline is available Mon-Fri from 9 am to 1 pm & 2 pm to 5 pm

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, or by persons lacking in experience or knowledge, unless they are supervised or instructed on the use of this device by a person responsible for their safety. Children should be supervised to ensure they do not play with this device.

**Do not use the binocular to watch the sun, or your eyes can be hurt. Be sure to keep it in mind!**

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.

**Warranty 2 years**

***Enjoy your product \* Share your experience and opinion on one of the well-known internet portals.***



Please read this instruction manual carefully before using the instrument.

### Care and maintenance

- Clean the product only with a dry or slightly damp, lint-free cloth. ● Do not use abrasive cleaners to clean the unit. ● Digital binocular is a high-precision optical instrument, so in order to avoid damage, please avoid the following practice:

- Use the binocular in ultra-high or ultra-low temperature.
- Keep it or use it in moist environment for long.
- Use it in rainfalls or in water.
- Deliver or use it in strongly shocking environment.

## Hints

- The device is intended exclusively for private and not for commercial use.
- Only use this device as described in this user manual.
- Do not place any part of this device in water or any other liquid.
- Do not handle the device with wet hands.
- When disconnecting the cable, always pull at the plug. Do not pull on the cable itself.
- Do not let the power cord on the edge of a table or work surface.
- Prevent contact with hot surfaces.
- Keep it away from heat sources to avoid deformation of plastic parts.

## Safety Instructions

- Never use this device to look directly at the sun or in the direct proximity of the sun. Doing so may result in a risk of blindness.
- Keep packaging material, like plastic bags and rubber bands, out of the reach of children, as these materials pose a choking hazard.
- Do not place the device, particularly the lenses, in direct sunlight. The concentration of light could cause a fire.
- Do not disassemble the device.
- Do not expose the device to high temperatures.
- Please heed the privacy of other people.
- Do not use this device to look into apartments, for example.
- MicroSD card plugging can damage the video files, and even damage the memory card. So try to avoid plugging the memory card during the video recording process.
- When in the poor-light environment, try to move the machine stably and smoothly, otherwise smearing and blurring can happen.
- Keep this device away from Children or only use the device under adult supervision.

### **WARNING**

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Disposal

### **Waste electrical equipment from private households**

- If you no longer have any use for the device, hand it in free of charge at a public collection point designated for old electrical devices.
- Under no circumstances should old electrical equipment be disposed of in the residual waste.

### **Further notes on disposal**

- Always return the old electrical equipment in such a way that its subsequent reuse or recycling is not impaired. Batteries must be removed beforehand and damage to containers containing liquids must be avoided.

- Waste electrical equipment may contain harmful substances. If the device is handled improperly or damaged, this may result in damage to health or contamination of water and soil during subsequent recycling.



Products marked with this symbol meet all applicable community regulations of the European Economic Area.

Technaxx Deutschland GmbH & Co KG has issued a "declaration of conformity" in accordance with the applicable directives and relevant standards. has been created. This can be viewed at any time upon request.



**Security and Disposal Hints for Batteries:** Hold children off batteries. When a child swallowed a battery go to a doctors place or bring the child into a hospital promptly! Look for the right polarity (+) and (–) of batteries! Always change all batteries. Never use old and new batteries or batteries of different types together. Never short, open, deform or load up batteries! **Risk of injury!** Never throw batteries into fire! **Risk of explosion!**

Batteries can be returned free of charge after use in retail stores. The end user is legally obliged to return used batteries. Separate collection and recycling of old batteries for the environment and health. Remove batteries before disposing of the device.



**Hints for Environment Protection:** Packages materials are raw materials and can be recycled. Do not disposal old devices or batteries into the domestic waste. **Cleaning:** Protect the device from contamination and pollution (use a clean drapery). Avoid using rough, coarse-grained materials or solvents/aggressive cleaner. Wipe the cleaned device accurately. **Important Notice:** Should battery fluid leak from a battery, wipe the battery case with a soft cloth dry. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Konrad-Zuse-Ring 16-18, 61137 Schöneck, Germany

## FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These

limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

## **US Warranty**

Thank you for your interest in the products and services of Technaxx Deutschland GmbH & Co.KG. This Limited Warranty applies to physical goods, and only for physical goods, purchased from Technaxx Deutschland GmbH & Co.KG.

This Limited Warranty covers any defects in material or workmanship under normal use during the Warranty Period. During the Warranty Period, Technaxx Deutschland GmbH & Co.KG will repair or replace, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

The Warranty Period for Physical Goods purchased from Technaxx Deutschland GmbH & Co.KG is 1year from the date of purchase. A replacement Physical Good or part assumes the remaining warranty of the original Physical Good or 1 year from the date of replacement or repair, whichever is longer.




This Limited Warranty does not cover any problem that is caused by:

- conditions, malfunctions or damage not resulting from defects in material or workmanship

To obtain warranty service, you must first contact us to determine the problem and the most appropriate solution for you.

Technaxx Deutschland GmbH & Co.KG, Konrad-Zuse-Ring 16-18, 61137 Schöneck, Germany \* [www.technaxx.de](http://www.technaxx.de) \* [support@technaxx.de](mailto:support@technaxx.de) \*

## Contents

Introduction .....	1
Care and maintenance .....	1
Disposal .....	2
FCC Statement .....	3
US Warranty .....	4
Features.....	5
Product overview .....	6
Before first use (charging) .....	7
First use .....	7
Using in classic mode (magnification 12x) .....	7
Using in digital mode (photo and video) .....	7
1. Insert SD card .....	7
2. Turn on the Binocular .....	8
3. Select the mode .....	8
4. Turn off the Binocular .....	8
Video settings  .....	9
Photo settings  .....	10
Replay settings .....	11
System settings  .....	11
Low light amplification (night vision) .....	12
Connect to a computer .....	12
Recharge the battery .....	12
Reset .....	13
Technical Specifications .....	13

## Features

- Colored display, for taking videos or photos
- FullHD 1080P(30fps) for videos
- 2592x1944 (JPG) for photos
- Digital zoom up to 4x magnification
- Low light amplification (better view at low light (0.01 lux)
- Supports MicroSD card up to max.128GB
- Built in 2500mAh rechargeable battery (up to 8h recording)
- 7h of 1080p (30fps) video recordings equal ≈ 32GB
- Optical glass with 12x magnification
- Distance covered: from 96 to 1000 meters (315 to 3280ft)

## Product overview



1	Reset	8	Display
2	Menu	9	Up
3	Mode	10	Down
4	Focus Wheel	11	OK /  (Video/Photo)
5	On/Off button (Power)	12	MiniUSB connector
6	Red LED (Charging)	13	Blue LED (Working)
7	MicroSD card slot	14	Diopter Adjustment

## Before first use (charging)

The TX-142 has an internal, rechargeable battery which must be fully charged before use for the first time. It takes about 3 hours to charge the battery full.

Please charge the binocular by using a common USB power adapter\* (DC 5V/1A) (\*not included). After plugging in the USB cable, the TX-142 powers On. For charging you can turn it Off. While charging the charging indicator LED (6) left to the MiniUSB port will turn RED. When the binocular is fully charged, the charging indicator LED (6) will turn off.

## First use

### Using in classic mode (magnification 12x)

You can use the TX-142 like any other pair of binoculars. Place your eyes correctly against the rubber, adjust the spacing of the 2 vision tubes and use the focus wheel (4) to focus. You can also turn the diopter adjustment (14) on the right-side viewfinder at the level of the rubber where you place your eyes.

### Using in digital mode (photo and video)

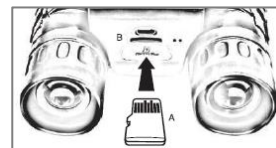
In digital mode, the binoculars allow you to take photos or make videos.

**Note:** Attention, if you are too close or too far from the target, the quality of the photos or videos will not be optimal.

Stand at a distance between 96m (315ft) and 1000m (3280ft) from the target. If you are within 96m (315ft) of the target, the framing may be distorted: the photo or video will be slightly shifted downwards.

### 1. Insert SD card

Insert SD card into the MicroSD card slot with the contacts upwards.



**Remark:** If a 64GB or 128GB MicroSD card is inserted, the device may show "PLEASE INSERT SD CARD". If so, pls format the MicroSD card on the Binocular camera, instead of formatting on a Computer. Then restart the binocular camera. Recording function will be workable.

## 2. Turn on the Binocular

Press and hold the Power button (5) until the display shows: Welcome, the binoculars are ready to take photos or videos.

**Important:** Setting language and time! After turning on the binocular for the first time you should change the language (default is English) and time. You need to open the system settings by pressing the menu button (2) two times. Now use the Down button (10) to navigate to “Language”/”Date&Time” and press OK button (11). Again, use the Up (9) and Down (10) button to navigate through the languages/ set Date&Time. Confirm by pressing the OK button (11). Exit by pressing the menu button (2) once or twice until you return to the normal screen.

## 3. Select the mode

When the blue LED of the binocular is lit, press the Mode button (3) to switch between: **Video; Photo; Replay**

- In **video mode**: Press the OK button (11) to start shooting. Press again to stop filming.
- In **photo mode**: Press the OK button (11) to take a picture. Press as many times as you want to take a photo.
- In **replay mode** use the UP (9) and Down (10) buttons to select the file you want to watch and press the OK button (11) to play a video on the screen.

**Note:** For best picture quality, hold the binoculars firmly or use a tripod to stabilize during recording.

## 4. Turn off the Binocular

Press and hold the Power button (5) until the display shows: Good Bye.



## Video settings

Turn on the binoculars, and select the video mode.

Press the Menu button (2) and then use the Up (9) or Down (10) buttons to navigate the menu. Press the OK button (11) to enter the submenus and confirm your choices. To exit settings, press the Menu button (2) once or twice until you return to the normal screen:

Resolution	1080FHD P30 720HD P60 720HD P30		
Loop Recording	1 Minute 3 Minutes 5 Minutes 10 Minutes		
Exposure	+2.0 +1.7 +1.3 +1.0 +0.7 +0.3	+/-0.0	-0.3 -0.7 -1.0 -1.3 -1.7 -2.0
Record Audio	Off On		
Date Stamp	Off On		

## Photo settings

Turn on the binoculars, and select the photo mode.

Press the Menu button (2) and then use the "Up" (9) or "Down" (10) buttons to navigate the menu. Press the OK button (11) to enter the submenus and confirm your choices. To exit settings, press the Menu button (2) once or twice until you return to the normal screen:

Photo Menu	Sub Menu	Photo Menu	Sub Menu		
Resolution	5M: 2592*1944 3M: 2048*1536 VGA: 640*480	ISO	Auto 100 200 400 800 1600		
Quality	Fine Normal Economy	Exposure	+2.0 +1.7 +1.3 +1.0 +0.7 +0.3	+/-0.0	-0.3 -0.7 -1.0 -1.3 -1.7 -2.0
Sharpness	Strong Normal Soft	Anti-Shaking	Off On		
White Balance	Auto Daylight Cloudy Tungsten Fluorescent	Quick Review	Off 2 Seconds 5 Seconds (After a photo was taken it is shown for the above set time.)		
Color	Normal Black&White Sepia	Data Stamp	Off Date Date/Time		

## Replay settings

Turn on the binoculars, and select the replay mode.

Press the Menu button (2) and then use the Up (9) or Down (10) buttons to navigate the menu. Press the OK button (11) to enter the submenus and confirm your choices. To exit settings, press the Menu button (2) once or twice until you return to the normal screen:

Delete	Delete Current Delete All	Cancel OK
Protect	Lock Current Unlock Current Lock All Unlock All	Cancel OK  (Locked files cannot be deleted, the delete function)

## System settings

Turn on the binoculars and press the Menu button (2) two times in succession and then use the Up (9) or Down (10) button to navigate the menu. Press the OK button (11) to enter the submenus and confirm your choices. To exit settings, press the Menu button (2) once or twice until you return to the normal screen:

Date/Time	DD MM YYYY  HH MM SS  DD/MM/YY; MM/DD/YY; YY/MM/DD
Auto Power-Off	Off; 1 Minute; 2 Minutes; 3 Minutes; 5 Minutes; 10 Minutes
Language	English, French, Spanish, Portuguese, German, Italian, Chinese, Russian, Norwegian, Czech, Dutch, Polish
Frequency	50Hz 60Hz
Screensavers	Off; 1 Minute; 3 Minutes; 5 Minutes; 10 Minutes
Format (MicroSD card)	Cancel OK
Default Setting (Device)	Cancel OK
Version	TX-142 Digital Binocular Camera -Vx.x

## **Low light amplification (night vision)**

This function of the TX-142 is no real night vision, because the device has no infrared LED. Which makes a light source (at least 0.01 lux) necessary. The device uses the sensor and chipset to improve the photo image by setting ISO and the exposure value. Normally the TX-142 adjusts the values automatically for low light amplification. It is suggested to set the ISO setting to Auto for photo.

## **Connect to a computer**

Compatible with: Windows 7, 8, 8.1, 10; MacOS up to 10.15; Linux

- Turn off the binoculars
- Connect the MiniUSB cable to the binoculars and connect the other end of the USB cable to the USB socket of your computer.
- The binoculars will be recognized as mass storage, if a MicroSD card is inserted to the binocular.
- Open the binocular main folder (mass storage).
- 2 subfolders are displayed: Pictures and Video
- Select the desired subfolder and double-click to open it.
- Then open each file you want to view.

Attention: To open a file, your computer must be equipped with a software of reading photo / audio / video. Most computer are already equipped with a standard software.

If the system shows the error message "SD Card Not Recognized", remove the SD card and use an SD card reader\* (\*not included) to connect directly to the computer.

## **Recharge the battery**

Charging the binoculars by connecting them to a computer or AC/DC adapter (5V/1A) via the supplied MiniUSB cable. After plugging in the USB cable, the TX-142 powers On. For charging you can turn it Off. When the battery is charging, the Red indicator light is on. If Fully charged, the Red indicator goes off.

**Important:** When the battery is discharged, the indicator light flashes once, then turns off automatically. Current files will be saved before shutdown.

**Note:** To maximize the life of the built-in lithium ion battery it is necessary to charge the Binocular completely for the first 5 times.

## Reset

When the product stops responding due to misuse or other unknown reasons and cannot be connected to a computer, please reset it by pressing the “Reset” button (1). The product stops and resets.

The recorded files on the MicroSD are not affected. Even the done settings are not influenced.

## Technical Specifications

Camera sensor	1/2,8" CMOS 5MP	
Camera lens	f=25mm, F/NO3.0, FOV=17.5°, low light amplification (0.01 lux)	
Digital zoom	4x	
Display	2inch (5cm) IPS LCD display (320x240 Pixel)	
Video resolution	1920x1080/30fps, 1280x720/60fps, 1280x720/30fps,	
Photo resolution	5MP: 2592x1944, 3MP: 2048x1536, VGA: 640x480	
Video length	1, 3, 5 or 10 min. settable	
File format (Photo/Video)	JPG / MP4	
Built-in battery	1x type 18650 lithium battery (built in) 3.7V, 2500mAh	
Power supply	Mini USB port DC5V / 1A	
Charging time	about 3-5h (to fully charge)	
Working time	Video: 7-8h; Photo: Depending on the resolution	
Storage	MicroSD** card (up to 128GB, Class10) [**not included]	
Video recording	1080p: 5min. ≈ ca. 250MB; ca. 7h ≈ 32GB	
Photo recording	5M: 1x photo ≈ 2MB; ca. 15000 ≈ 32GB	
Compatible with	Windows 7, 8, 8.1, 10; macOS up to 10.15; Linux	
PC interface	Mini USB2.0	
TV-out	No	
Tripod Support	Yes	
Binocular magnification	12x	
Binocular objective lens diameter	32mm	
Binocular pupillary distance	min. 2.2inch (5.6cm); max. 3.03inch (7.7cm)	
Binocular Field of view	315-3280ft (96m – 1000m)	
Languages	English, French, Spanish, Portuguese, German, Italian, Chinese, Russian, Norwegian, Czech, Dutch, Polish	
Material	Aluminum alloy+ ABS, PVC	
Working temperature	19.4°F up to 104°F (−7°C up to +40°C)	
Weight & Dimensions	17.1oz / (L) 5.7x (W) 4.53 x (H) 2.16inch 485g / (L) 14.5 x (W) 11.5 x (H) 5.5cm	
Package contents	FullHD Binocular with Display TX-142, 1x Mini USB cable, 1x Neckstrap, 1x Cloth, User manual	