Technaxx® * User Manual
FullHD solar outdoor camera with LED light TX-156

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, read the user manual carefully.
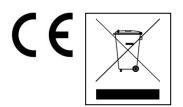
Service phone No. for technical support: 01805 012643 (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks).
Free Email: **support@technaxx.de**

If you drill a hole in the wall, please make sure that power cables, electrical cords and/or pipelines are not damaged. When using the supplied mounting material, we do not take the liability for a professional installation. You are entirely responsible to ensure that the mounting material is suitable for the particular masonry, and that the installation is done properly. Also ensure that the mounting place is strong enough to hold this heavy device. When working at higher altitudes, there is danger of falling! Therefore, use suitable safeguards.

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.

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. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Kruppstr. 105, 60388 Frankfurt a.M., Germany
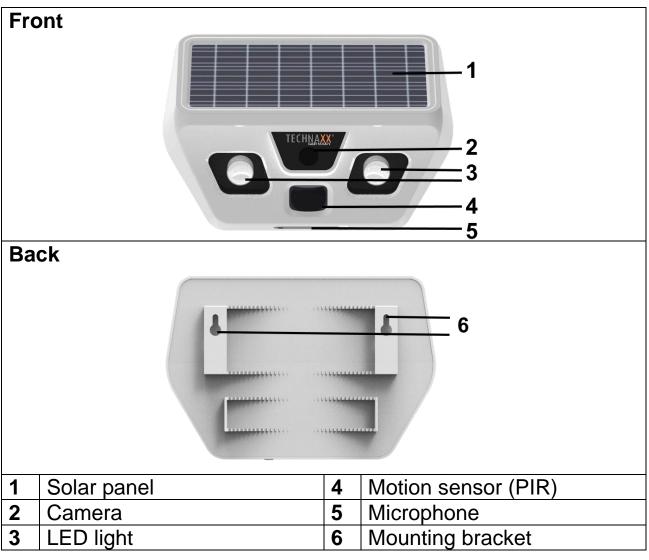
Contents

Features

● Multi functional: video recording with sound, photo, light
● Photo 2M: 1920x1080; Video FHD: 1920x1080 / 25fps
● PIR motion detection of 120° angle up to ~8m (open areas)
● PIR trigger time 0.2–0.25 seconds
● Light in high brightness of 150 lumen (4W) up to ~8m distance (open areas)
● MicroSD card* up to 512GB (*not included)
● Built in 8000mAh rechargeable battery (up to 2 weeks recording)
● Stand alone device powered by batteries and solar panel (3W)
● Protection class IP56 (dust & waterproof)

Product overview

Front

Back

1	Solar panel	**4**	Motion sensor (PIR)
2	Camera	**5**	Microphone
3	LED light	**6**	Mounting bracket

Connections / LED / Switch

7	MicroUSB connector	**11**	Photo mode (mode button)
8	MicroSD slot	**12**	Charging indicator LED
9	Video mode (mode button)	**13**	Reset
10	OFF mode (mode button)	**14**	Status indicator LED

Before first use

Charging

The TX-156 has an internal, rechargeable battery which must be fully charged before use for the first time. It takes about 20 hours to charge the battery fully by a common USB power adapter.

Please charge the TX-156 by using a common USB power adapter* (DC 5V/1A) (*not included). While charging the charging indicator LED (12) right to the MicroUSB port will turn RED. When the TX-156 is fully charged, the charging indicator LED (12) will turn off.

MicroSD

Before using the device for the first time or after replacing the MicroSD card, it must be formatted, so as to facilitate the optimization of the TX-156. The MicroSD card can only be used after the system has been formatted on a PC, which can otherwise lead to errors.

Info: ● Cards up to 32GB must be formatted in FAT32.
● Cards of 64GB or more must be formatted in exFAT.

Operation

1. Make sure that nothing is blocking the lens (2) and motion sensor (4) in front of the Solar outdoor camera.

2. Switch the Off mode to Photo or Video mode the red light turns on, the first 30s will enter Status mode.

3. Move your hand in front of the motion sensor of the machine (just for testing). The green light (14) will turn on and the red light (14) will turn off once to indicate that the image is recorded/saved.

Info: After 30 seconds, the red light turns off and the TX-156 goes into hunting mode. The camera will take photos or videos according to the parameters set by the software on your computer (automatic loop is turned on by default).

How do camera, LED and motions sesor work together?

● In the evening, when the motion sensor detects a moving object (because of infrared sensing light), light lit up to 5 seconds. The length of the video is based on the parameters you set via the software on your computer.

● Same video control during the day but the light is off.

Operation Introduction

Switch

Video	Video Mode	When the device switch shows Video mode, only videos will be recorded.
	Off Mode	When the device switch shows OFF mode, it can be used for charging and downloading files to a computer as mass storage. Setting can be done with the Camera Config Tool.
Photo	Photo Mode	When the device switch shows Photo mode, it will take five photos by default. With the Camera_Config_Tool_exe you can set the mode to photo and video.

Indicator Light

● **The status LED**

- In the first 30 seconds after starting up if the battery power is low (when the remaining power is 20% or lower) OR if the MicroSD card is full, the SD card is broken, the SD card is not plugged in the <u>red light</u> will flash all the time.
- When the TX-156 is turned on, the <u>red light</u> is off, the device has maybe no power and needs to be charged. Before charging, you need to insert paper clip into the Reset hole (13) and gently press to reset the TX-156.
- If the <u>red light</u> keeps (quickly flashing) flashing when starting up or power off for 4 seconds, it needs to be charged.
- The <u>green light</u> turns on once the motions sensor is triggered. After either video or photo mode was chosen.

Light		Status
Red	**Green**	
On		Normal
Flashing (First 30 seconds)		MicroSD card is full, broken, or not plugged in
Flashing all the time		Battery remaining 20% power or less
Off		Needs charging
Flashing while power on/off		Needs charging
	Turns On	Motion is detected (photo / video recording)

● **The charging LED**

- If the TX-156 is charged by USB, the charging light will show <u>red</u> and the lights off after charging is complete.
- If the sun charges the TX-156, the <u>blue light</u> will turn on. No sun the blue charging light will be off.
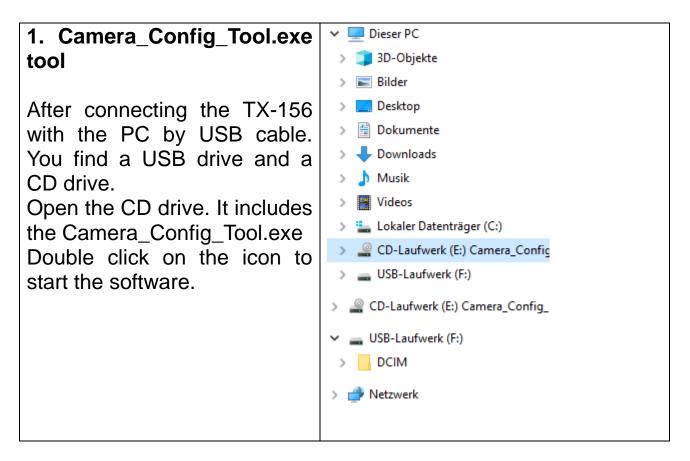
Light		Status
Red	**Blue**	
On		Charged by USB
Off		Charging complete
	On	Charged by solar panel (sun)
	Off	No charging by solar panel (no sun)

Software settings

Switch Mode Button to "OFF", then connect to your computer via USB cable. The status mode light turns red then you can start the Camera_Config_Tool.exe and set the system parameters.
Default settings for:

- Video: 10seconds recording
- Photo: 5 photos in series

| **1. Camera_Config_Tool.exe tool**

After connecting the TX-156 with the PC by USB cable. You find a USB drive and a CD drive.
Open the CD drive. It includes the Camera_Config_Tool.exe Double click on the icon to start the software. | ∨ 🖥 Dieser PC
　> 🔵 3D-Objekte
　> 🖼 Bilder
　> 🖥 Desktop
　> 📄 Dokumente
　> ⬇ Downloads
　> 🎵 Musik
　> 🎞 Videos
　> 💾 Lokaler Datenträger (C:)
　> 💿 CD-Laufwerk (E:) Camera_Config
　> 💾 USB-Laufwerk (F:)
　> 💿 CD-Laufwerk (E:) Camera_Config_
∨ 💾 USB-Laufwerk (F:)
　> 📁 DCIM
　> 🖧 Netzwerk |

2. Set the Date and Time of camera or sync with PC time. After setting Date and Time click on "Save Camera Settings" to save the setting. Time setting, can synchronize computer time or set manually.	

3. Formatting MicroSD card

Before using the device for the first time or after replacing the MicroSD card, it must be formatted, so as to facilitate the optimization of the machine. The MicroSD card is only useable after the system is formatted on a PC, otherwise it can cause errors.

Note: The tool needs to unplug the USB cable after formatting the machine, and then insert it into the PC again to correctly display the blank MicroSD card after formatting.

Storage medium: MicroSD card * up to 512GB (Class10) [* not included]

Info: ● Cards up to 32GB must be formatted in FAT32.

● Cards of 64GB or more must be formatted in exFAT.

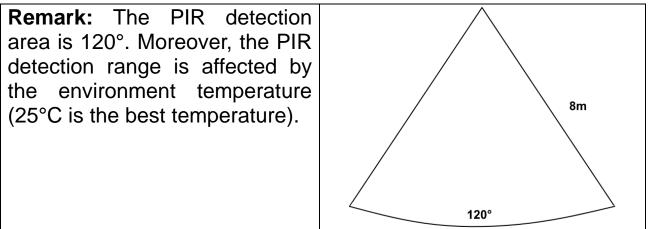|	
4. Settings According to your need you can set following settings: - Monitor Mode - Photo Series - Motion sensor (PIR) Delay - Video Length - Endless Capture - Date / Time Stamp	

View recordings

To watch recorded videos on your PC, set the device into Off Mode and connect the device with a Micro USB cable to your PC. The device now should be recognized as mass storage.
In case this does not work insert the MicroSD card directly into the MicroSD card slot of your PC or use a MicroSD adapter card.
Note: If you eject the MicroSD card from the TX-156 you need to format it after inserting to TX-156 again!

PIR detecting range

Remark: The PIR detection area is 120°. Moreover, the PIR detection range is affected by the environment temperature (25°C is the best temperature).	 8m 120°

Battery life

It is depending on the mode you select as a default. Long battery life is one of the most important requirements. There are several variables that will determine the battery life (hours of sunlight, temperature outside, frequency of activity, etc.) Night video and photo frequency (light and record) will result in shorter battery life.
Info: The daytime exposure to direct sunlight should be 4-5 hours per day. In the case of indirect sunlight, the value is correspondingly higher, approx. 8-10 hours.
Attention: If RED status LED flashes, it is time for charging!

Installing / Mounting

You can install the TX-156 to a tree or fix it to flat surfaces by bracket. (Height: 1.8 -2.5m)

● You should mount the TX-156 via bracket in advance.

● The TX-156 should be placed, where it has enough sunlight, no barrier and shelter. And the solar panel has to face to the sunlight.

● The TX-156 should be placed, where it has enough sunlight, no barrier and shelter. And the solar panel has to face to the sunlight. If the sunshine is low or the sky is overcast, the battery takes longer to charge.

● Place the TX-156 above the ground or platform to avoid being inundated by rain.

● Check and make sure the TX-156 is fixed well.

● When mounting the TX-156 with the included mounting belt note the following:

- This product is suitable for walls that are 90 degrees perpendicular to the ground.

- When tied to a pillar or in some places, it should be 90 degrees to the ground to facilitate drainage.

FAQ

1. When you connect the computer, the red light is off. Please check if the USB plug is too loose to cause poor contact. When the battery is out of power, it needs to be reset (you can insert a metal strip such as a paper clip into the Reset hole and touch it to reset the machine with a light touch); whether Windows prompts the USB due to the high current surge caused by the slow insertion, you need to restart the computer.

2. Before connecting to the computer, the three-gear switch should be set in the OFF position. After connecting to the computer, you can check the pictures and videos and set the computer parameters when the red light is on.

3. When the red light is off at startup, there may be no power to charge. You can use a metal strip such as a paper clip to insert it into the Reset hole and press it to reset it.

4. If the red light keeps flashing when starting up (flash) or the power is turned OFF after starting up for 4 seconds, it needs to be charged, then the three-gear switch should be plugged into the USB

of the computer at the OFF position and the charging red light should be turned OFF when it is fully charged.

5. If the red light keeps flashing (slowly flashing) when you turn on, please check whether the memory card is installed or the cycle is full (connect the computer with the Camera_Config_Tool_exe tool to check whether the machine is closed cycle) and the bad card prompt.

6. 30 seconds after starting up, move your hand quickly outside the machine's motion sensor. The green light will not flash. Check whether the infrared sensor window is too dirty. After the green light flashes, the red light keeps flashing. Please check whether the MicroSD is properly inserted or not (connect to the computer with Camera_Config _Tool_ exe to format the machine MicroSD card).

Technical specifications

Image sensor	1/4" CMOS 2MP
Video resolution / file	1920x1080 25fps/ AVI
Photo resolution / file	1920x1080/ JPEG
Camera lens	F/NO 2.0; FOV=120°; Auto IR filter
PIR (at 25°C)	max. distance ~8m / angle 120° / trigger time 0.2–0.25 sec.
Light	distance ~8m / power 4W, 150 lumen (20W incandescent bulb) / Colour: 6000–6500 Kelvin
Storage	MicroSD* card up to 512GB (Class10) [*not included]
Redording storage	Video: 10seconds = 42MB; with 100 triggers a day 32GB would last 7days until loop function starts working Photo: 5x photo = 3MB; with 500 triggers a day 32GB would last 20 days
Power supply	DC 5V / 1A
Solar panel	3.0W
Charging time	20 hours, by power supply
Built in Battery	2x Type 18650-2P lithium ion battery 4000mAh, 3.7V (total: 8000mAh)
Ø working time	Battery: about 2 weeks (depending on mode, settings, hours of sunlight, temperature, etc.)
Connections	MicroUSB (charging & data); MicroSD slot
Buttons	3 switch button (video, photo, off / data transfer to PC and camera settings)

Microphone	Yes	
Operating system (Software)	Windows 7, 8, 8.1, 10 only	
Language PC Software	English, German	
Operation temperature	–10°C up to +40°C	
Material	ABS	
Weight / Dimensions	582g / (L) 24 x (W) 16.0 (H) 9.5 cm	
Package Contents	FullHD solar outdoor camera with LED light TX-156, 1x MicroUSB cable, 1x Mounting belt, 2x Screws with dowels, User Manual	

Warnings

(To reduce the risk of fire, electrical shock or product damage/failure)
● Do not expose unit with the cover open to rain, moisture, dripping or splashing.● Do not submerge product in water (this unit is designed for normal outdoor use). ● Do not attempt to disassemble the device, it may result in short-circuit or even damage. ● Do not drop or shake the device, it may break internal circuit boards or mechanics. ● Keep the device in dry and ventilated environment. Avoid high humidity and high temperature. Also batteries should not be exposed to excessive heat or direct sunlight. ● Keep the device away from little children. ● The device will be hot after using for too long time. This is normal. ● Please use the accessory provided by our factory.