Product installation and operation instructions

1 introduction

Congratulations on the purchase of your Swann Wireless Long Range Camera.

Characteristic

• 4K Ultra HD video from Sony Starvis sensors ensures premium quality video day or night

• Integrated solar panel to keep the rechargeable lithium ion batteries charged

• Spotlights, Siren & 2-Way Audio allows you to talk to visitors & warn intruders to help prevent crime

• Works in rain & snow all year round, & offline

Important instructions

1. Apple USB-C power adapters are not compatible.

Use the provided USB-C cable and a standard USB 5V 2A power adapter to charge.

2. Make sure the camera is fixed correctly to the mounting bracket and stable if fastened in place.

3. Do not operate if wires and terminals are exposed.

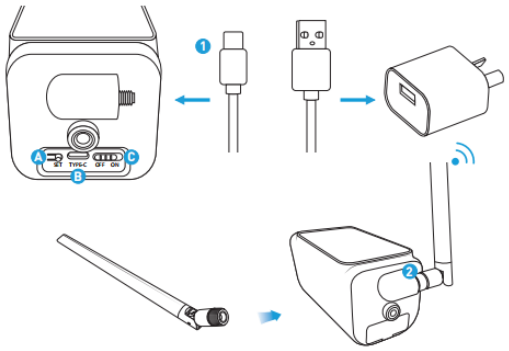
Important Note:

All jurisdictions have specific laws and regulations relating to the use of cameras. Be fore using any camera for any purpose, it is the buyer's responsibility to be aware of all applicable laws and regulations that limit the use of cameras.

About this Manual:

The content in this manual is for information purposes only and is subject to change without notice. While every effort is made to ensure that this manual is accurate at the time of printing.

2 Charging the Battery



Pull the rubber cover gently to access:

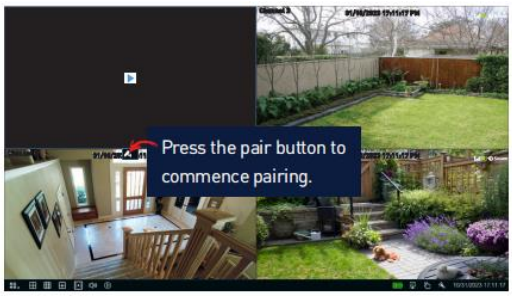
A. Press and hold the pair button to pair to your NVR.

B. USB-C connection to charge the battery.

C. Turn the camera on or off.

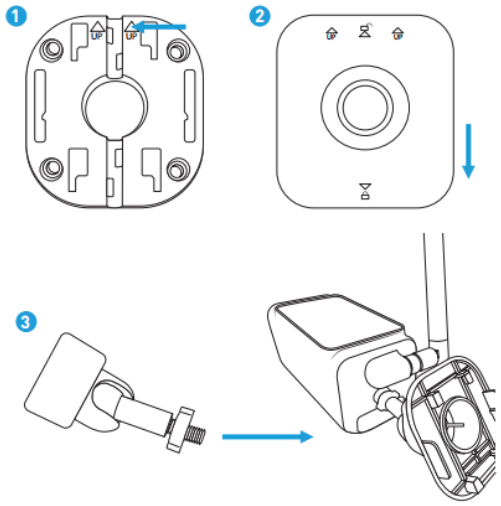
1. Charge the battery for three to four hours using the USB-C cable provided (USB power adapter not included).
When mounted, the camera's solar panel will charge the battery.
2. Connect the supplied antenna to the camera's antenna connection.
Turn the antenna base clockwise to connect (make sure it's firm, but don't overtighten).
Leave the antenna in a vertical position for best reception.
When finished, turn the camera on. The camera will automatically pair with your NVR. Remove the plastic film from the camera's lens.
If the camera hasn't paired, follow the instructions in step 3.

3 Pairing the Camera



1. In Live View mode, click a channel to pair the camera .
2. A pair button appears (a blue pair button may also appear in the top-right hand corner of each channel).
Press this button to commence pairing. A message will appear on-screen.
3. Press and hold the pair button on the camera until you see red and blue LEDs flashing, then release.
The camera is now in pairing mode.
4. After a short moment the camera will be paired, and you will see the camera's image on-screen.
If the camera fails to pair, repeat the above instructions and try again.

4 Mounting the CameraMount



Securely attach the camera to a level surface using the included screws and wall plugs. Ensure that the surface is sturdy nough.

1. Place the mounting plate in the desired location. Then, fasten the mounting plate in position using the suitable screws for the surface you are attaching it to.

Pay attention to the UP marking while positioning the mounting plate.

2. Unscrew the mounting bracket from the mounting base anti-clockwise. Place the mounting base onto the mounting plate and push down to lock it in place.

3. Secure the mounting bracket back onto the mounting base clockwise, then screw the mounting bracket to the rear of the camera.

Use the tiny bolt to secure. Adjust the viewing angle, then tighten to secure in place.

5 Camera Location Tips

1. Take into consideration what you want to monitor and where you'll get the best view of it.
2. The amount of energy the camera's solar panel can produce depends on several factors: average sun exposure, weather conditions, tilt angle, and dust or debris.
3. Choose a location for your solar panel that gets plenty of sunlight - try to avoid spots that are in the shade for a significant portion of the day.
4. Mount your camera facing true south (in the northern hemisphere) or true north (in the southern hemisphere) and tilt it to the appropriate angle for your latitude.
5. Wipe the panel every few months to remove dust or debris that might affect the solar energy-harvesting efficiency.
6. Place your camera as close to the area of interest as practicable. The best position is from about 13ft/4m above looking slightly down, keeping in mind the details you are looking for.
7. Make sure your camera has minimal sky in it as the light in daylight can make the foreground of the image darker.
8. Think about the most likely way a potential offender may approach your home, use your camera to give you the best coverage of these areas.

9. The camera’s casing is resistant to different weather conditions and tampering. It would take an over¬whelming event to damage the housing.
10. Even though the camera is weather and water-resistant, prolonged exposure to adverse weather conditions such as excessive moisture, may eventually damage the internal components of the camera and adversely affect its performance.

6 Limited Warranty - Terms & Conditions

Swann Communications warrants this product against defects in workmanship and material for a period of one (1) year from its original purchase date. You must present your receipt as proof of purchase for warranty validation. Any unit which proves defective during the stated period will be repaired without charge for parts or labour or replaced at the sole discretion of Swann. The end user is responsible for all freight charges incurred to send the product to Swann’s repair centres. The end user is responsible for all shipping costs incurred when shipping from and to any country other than the country of origin.
The warranty does not cover any incidental, accidental or consequential damages arising from the use of or the inability to use this product. Any costs associated with the fitting or removal of this product by a tradesman or other person or any other costs associated with its use are the responsibility of the end user. This warranty applies to the original purchaser of the product only and is not transferable to any third party. Unauthorized end user or third party modifications to any component will render all warranties void. By law some countries do not allow limitations on certain exclusions in this warranty. Where applicable by local laws, regulations and legal rights will take precedence.
For Australia: Our goods come with guarantees which cannot be excluded under Australian Consumer Law.
You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality

PRODUCT SPECIFICATION

Product Name	MaxRanger4K™ Solar Wireless Security Camera
Model Number	NVW-MR4KCAM
Product Description	Maximum Range Wi-Fi, Solar-Powered Security Camera
Mechanical Properties	
Material	PC+ABS
Size	144*70*76(mm)
CMF	White
	
Video Performance	
Time to first recorded frame	500ms
Time to live view over NVR	3s
Time to live view over TUTK P2P	5s
Supported Resolutions	4K, 3840 x 2160 pixels
Frame rate	15fps
Viewing Angle	HFOV:106, VFOV: 56, DFOV: 127
Night Vision	Yes
Night vision distance	8m
Number of IR LEDs	6pcs 850nm
H264	No
H264+	No
H265	Yes
H265+	No
Supported Codecs	H.265 Baseline / Main / High
Supported Data Rates	1.2Mbps
ONVIF	No
Microphone	Yes, built-in Omnidirectional
Audio range	up to 5m
Speaker	1.5W
Audio Duplex	Full, support ANC and AEC (Need to support noise suppressing mesh - IP66)
Siren	Yes
Siren type	N/A

Supported Codecs	G.726
Supported Data Rate	G.726: 16bits, 32k
Motion detection	
PIR Motion Detection	Yes
PIR Motion Detection Range	8m
PIR sensitivity control	1%-100% settings
PIR Motion Detection Angle	120°
Recording	
Local Recording	Yes
Clips	10 ~ 60s
Spotlight	
Number of LEDs	2pcs
Brightness	150 lumens
LED wattage	1W per LED, in total of 2W
Solar panels	
Charging power	900mW/40000Lux
Conversion efficiency	25%
Analytics	
Video Analytics	Yes
Human	Yes on edge
Cars	Yes on edge
Face recognition	No
Line	No
PIR zone Mask	Yes on edge
RF Performance	
Wi-Fi	Yes
Wi-Fi Bands	903.5-926.5 Mhz
Pairing Mechanisms	SoftAP from NVR(Pairing button on camera and UI button on NVR)
Power	
Powered Operation	5V2A
Power consumption	0.3mA @ sleep mode 480mA @ active mode (day) 660mA @ active mode (night/ infrared) 860mA @ active mode (night/ white)
Power adapter	No

Battery Operation	Yes
Battery Capacity	3* 4,200mAh, total actual capacity 12,600mAh
Battery brand	Molicel Battery Cell
Battery pack supplier	Shenzhen Glida Electronics Co., Ltd.
Battery Chemistry and Config.	Li-on
Removable Battery for Charge	No
Water resistance	IP66
Gas gauge	Yes
Sleep PIR Sensitivity Change	N/A
Indicator LED	
LEDs	1*bi-color LED (Red/Blue)
Buttons	Reset*1
Reset button mode	2 modes
Dip-switch	Power switch
Compliance	
Temperature Operating Range	-20° to 60° degrees C
TSCA	Yes
FCC ID with SdoC part 15B	Yes
DOE	Yes
CEC	Yes
IC ID with ICES Class B	Yes
Nrcan	Yes
CB safety and EMC	Yes
AU deviation to cover AS/NSZ62368-1:2018	Yes
RCM	Yes
IEC 62133	Yes
MSDS and UN38.3	Yes
UL 1642 (for battery)	Yes
PI967 & SP188	Yes
Prop65	Yes
UV test ASTM D4674, Method 1; 2806 W-h/m2, 300 - 430 hours	Yes
Waterproof IP rating	IP66
Wi-Fi Interoperability	802.11ah
MIC	Yes
LED compliance	CB/LVD, EMC, EMF, Light Biological Safety
Cloud Services	
Pairing / Provisioning	No
Notification Service	Yes

Live Streaming	Yes
Cloud Video Recording	Yes
Analytics	Yes
Synopsis	No
Subscriptions	Yes
OTA	Yes
Administration / Support	Yes
App Features	
WiFi Pairing	Thru NVR by Halow WiFi frequency of 903.5-926.5Mhz
Live Streaming (Portrait, Landscape)	Yes
Integrations	
IFTTT	Yes. Swann Cloud Integration.
Key Components	
Chipset	T41ZX
Operating System	Linux
Software Reference	Ingenic
Video Sensor	Sony IMX 515/IMX 415
Sensor Spec	1/2.8''
Lens	F1.6
PIR Brand and model number	Senba RL412
Halow Wi-Fi Module	TX-AH-Rx00P (Taixin Semiconductor)
Halow Wi-Fi Frequency	903.5 – 926.5Mhz
Flash Memory	SPI NOR 128Mb
DDR	Built-in 2Gb
USB Type C cable length	1.2m
Power adapter	No

Warning

FCC Warning

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.
(2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

In order to comply with FCC RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.
Radiation Exposure Statement:
1. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
2. The device has been evaluated to meet general RF exposure requirement

FCC Interference Statement

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 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.

IC Warning

ISED Canada RSS-Gen Notice :
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.
L’émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:
1. L’appareil ne doit pas produire de brouillage ;
2. L’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

In order to comply with ISED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.
Afin de se conformer aux exigences d'exposition RF ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
Lors de l'installation et du fonctionnement de cet équipement, la distance minimale entre le radiateur et le corps doit être de 20 cm.