

# TrolMaster Grow Camera (TC-1) User Manual



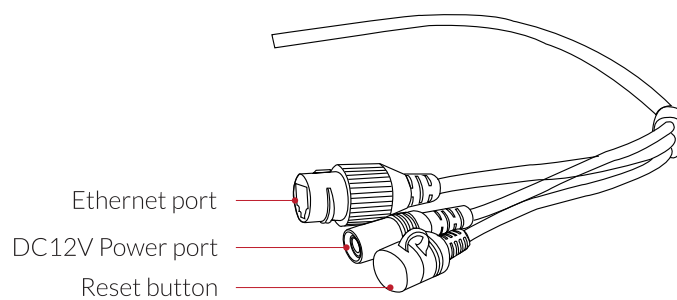
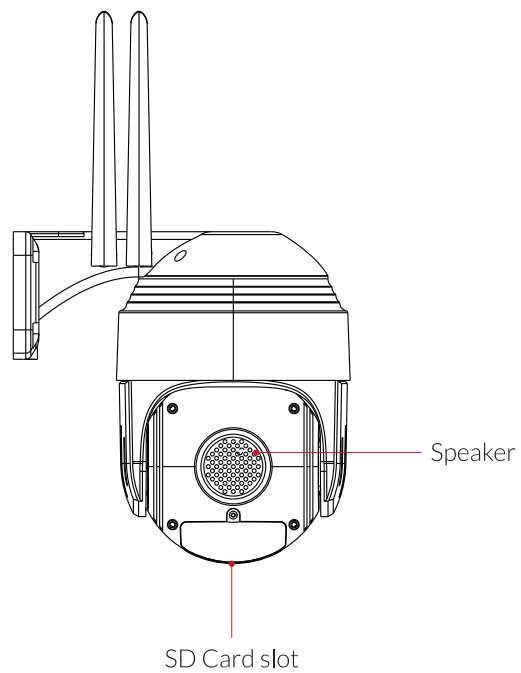
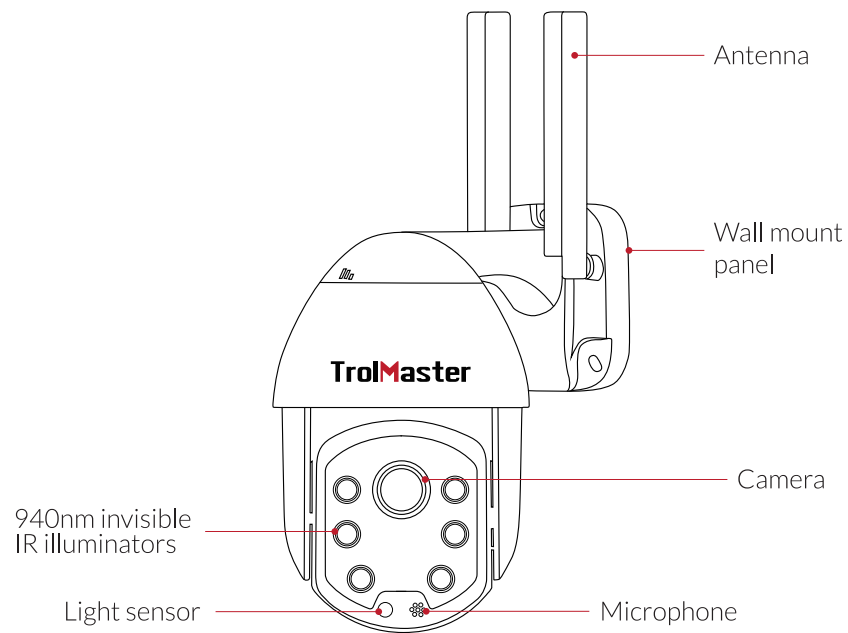
**TC-1** For Hydro-X Control System

## OVERVIEW

The TrolMaster Grow Camera (TC-1) is a high-quality surveillance camera specifically designed for grow rooms, providing 24-7 live video monitoring of your grow area.

The TC-1's built-in night vision has been engineered to use invisible (plant safe) IR illuminators to prevent disrupting the morphology of the plant during the dark period. TC-1 features night vision with the ability to see up to 35ft by using 940nm invisible IR illuminators that are safe for plants during the day and night.

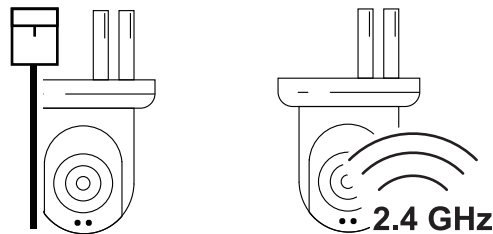
TC-1 also utilizes TrolMaster's free phone app called TM+/TM+ Pro. Using the TC-1 and the TrolMaster apps provides 3 megapixels of low-latency internet live footage. A built-in MicroSD card slot is also available for video recording.



# CONTROL

## Internet Access

The TrolMaster Grow Camera requires an internet connection in order to be able to view live footage using the TrolMaster apps. The connection can be established with either wired ethernet or 2.4GHz Wi-Fi, it will not work with a 5GHz Wi-Fi connection.



## Mobile App

Using TrolMaster's free smartphone app called TM+/TM+ Pro will allow remote control and monitoring of your grow room anytime, anywhere. Adding the TC-1 camera to your grow room setup will provide a "window" into your grow room that you can also access from your phone.

## Video Recording

TrolMaster's Grow Camera also has a built-in micro SD-card slot for video recording, with compatible storage up to 128GB. (The micro SD-card slot is located at the top of the camera unit under the water-resistant rubber cap.)

# INSTRUCTIONS

**Step 1:** Activate the TC-1 by connecting the power, and then make sure to have a stable internet connection (wired / wireless 2.4GHz).

**Step 2:** Make sure your TrolMaster apps is in the latest version. (Delete and reinstall the app if you are not certain) After logging into the phone app, tap the Hydro-X controller that you would like to monitor with TC-1.

**Step 3:** Tap "Camera" at the bottom right corner, then tap "Add Device".

**Step 4:** Scan the QR Code from the sticker on the TC-1. Next, choose to connect with Ethernet or Wi-Fi at the top right corner before proceeding. (you'll need to input your router login if you pick Wi-Fi. Make sure your phone is unmuted, your Wi-Fi info will encrypt and transform into a sound frequency, make sure it is loud enough so TC-1 can hear it.)

**Step 5:** When setup is complete, you'll hear "connection successful". Now you will be able to see live footage on the controller's main screen.

## FEATURES

- Monitor and Control with TrolMaster's phone app
- IP66 water-resistant
- Support H.264 codec - High Efficiency Video Coding (HEVC)
- High-resolution live video transmission
- SD expandable storage up to 128GB
- 940nm invisible IR illuminators for night vision up to 35ft(10m)
- Light detection
- Motion detection

## SPECIFICATIONS

Input Voltage : <b>Voltaje de entrada :</b>	100-240V AC, 50/60Hz 0.3A <b>100-240V AC, 50/60Hz 0.3A</b>
Output Voltage :	12.0V, 1.0A
Certifications : <b>Certificación :</b>	ETL/FCC <b>ETL/FCC</b>
FCCID :	2A33F-TC-1
Camera Unit :	6mm Fixed-focus Lens 2 Megapixels Camera (resolution - 1960×1080) 940nm invisible IR illuminators 1 Ethernet Port 2 Wi-Fi Antennas
Dimensions & G.W. :	190mm(L) x 170mm(W) x 133mm(H) Approx.G.W. 482g
Working Environments	Temperature 32-104°F Humidity≤90%

## PACKAGE CONTENT

- TC-1 x1
- Wall Mount Screw Set x1
- Product Manual x1
- Power Adapter x1
- Water-resistant Cap Set x1

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## 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.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

## ISED CANADIA STATEMENT

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de classe B est conforme à la norme CES-003 du Canada.

This device contains licence-exempt transmitter(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.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS-102 and compliance with RSS-102RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS-102 et la conformité à l'exposition de RSS-102rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co- placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

## WARNING

**DO NOT** let the TC-1 be exposed to water or excessive heat.

**DO NOT** open, attempt to repair or disassemble the camera, as there are no user-serviceable parts inside.

Opening the camera will void the warranty.

## AVERTISSEMENT

**NE laissez PAS** le TC- 1 être exposé à l'eau ou à une chaleur excessive.

**NE PAS** ouvrir, tenter de réparer ou de démonter l'appareil photo, car il ne contient aucune pièce réparable par l'utilisateur.

L'ouverture de la caméra annulera la garantie.

For any issues or concerns with our products, DO NOT return them to the store. Please contact our tech support department at [support@trolmaster.com](mailto:support@trolmaster.com) or call **877-420-9876**.

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