

Prior Art Disclosure: Active Cooling Systems for Action Cameras, Streaming Cameras, and similar compact Imaging Devices.

Public technical disclosure of CAMCoolER LLC's active airflow cooling systems for action cameras, streaming cameras, and similar compact imaging devices.

CAMCoolER LLC has publicly designed, manufactured, marketed, and sold purpose-built active cooling systems for action cameras since at least August 30, 2021. These systems have been made publicly available through commercial sales, online listings, customer use, and public demonstrations. Real-world field testing and public use began in 2019, including implementations incorporating thermal shading and/or active airflow configurations.

CAMCoolER systems were developed to address a specific real-world problem: camera overheating during stationary or low-airflow, long-duration recording and/or streaming scenarios.

Action cameras are often designed with movement-based cooling in mind. When mounted in static positions—such as on fences, tripods, vehicles, walls, indoor mounts, testing rigs, or sports recording setups—the camera loses the benefit of natural airflow. Heat builds up in the camera body, eventually causing thermal shutdown.

CAMCoolER systems solve this problem by restoring airflow and reducing thermal load through both active and passive thermal management.

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## Technical System Description

CAMCoolER active cooling systems include one or more electrically powered fans configured to generate forced airflow directed toward, across, or around the external surfaces of an action camera and/or inside the battery compartment on devices with removable batteries, access doors, or similarly sized imaging devices.

These systems may be implemented in various configurations, including systems that **combine an integrated sun-shading structure with one or more high-output blower and/or axial fans configured to actively manage heat when an action camera or similar imaging device is fixed in place.**

This combination addresses both solar heat input and heat removal in static-use conditions.

These systems may include:

- Directed forced-airflow cooling
- Integrated camera support structures
- Fixed-position mounting geometry
- External fan-powered airflow

- Airflow channels, fan housings, or open-flow cooling structures
- Integrated or attachable shading elements
- Mounting interfaces for stationary recording applications
- Configurations for outdoor and/or indoor use

The purpose of these systems is to improve convective heat removal and reduce heat accumulation during extended recording, streaming, or continuous operation.

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## **Intended Use Cases**

CAMCoolER systems are engineered for stationary or low-airflow recording environments, including **but not limited to**:

- Outdoor sports recording
- Fence-mounted cameras
- Tripod-mounted cameras
- Direct sunlight exposure
- Elevated ambient temperatures
- Indoor extended recording
- Streaming setups
- Testing environments
- Long-duration unattended recording
- Static mounting where natural airflow is limited or absent

The system is effective in both outdoor and indoor environments where heat accumulation may occur.

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## **Public Availability**

CAMCoolER LLC has publicly disclosed these systems through:

- Commercial product sales
  - 1st Sale: Jared Brimhall (8/30/2021)
- Online product listings
  - 3/17/2022: Order #657 (Camcooler.com) to T. Gabrielli
  - 4/24/2022: Order #2452313358 via Etsy (CAMCoolER) to J. Townsley
- Website descriptions
- Public-facing product images
- Customer use
- Field testing and use-Public-facing
  - 12/7/2019
- Social media and marketing content

- 4/18/2023: <https://www.youtube.com/watch?v=CfVEVOUg1Lo>
- Real-world demonstrations
- **Provisional Patent Application: APPLICATION #63/269,614 (03/19/2022 05:45:01 AM ET)**

These disclosures predate any later claims attempting to broadly patent:

- active airflow-based cooling systems
- systems combining passive thermal mitigation (including shading) with active airflow
- or cooling systems applied to stationary or reduced-airflow camera operation

for action cameras or compact imaging devices.

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### **Prior Art Statement**

**Provisional Patent Application: APPLICATION #63/269,614 (03/19/2022 05:45:01 AM ET)**

The CAMCoolER active cooling system—including but not limited to:

- fan-driven forced airflow, including configurations that direct airflow toward, across, or away from the device, including both positive-pressure or negative-pressure airflow systems
- integrated mounting and support structures
- fixed-position operation
- integrated or combined shading structures
- and configurations combining passive thermal mitigation (shading) with or without active airflow

—constitutes prior art relevant to patent claims directed toward:

- Active cooling systems for action cameras
- Forced-air cooling accessories for compact imaging devices
- Camera cooling systems used during stationary recording and/or streaming
- Cooling devices designed to prevent camera overheating
- Fan-based external cooling systems for cameras
- Systems combining shading and airflow for thermal management
- Cooling systems for outdoor, indoor, high-heat, or reduced-airflow recording conditions
- Integrated or external camera mounting, cooling, and/or shading systems

Any later claim directed broadly toward these concepts, whether implemented individually or in combination, should be evaluated in view of CAMCoolER LLC's public disclosures, commercial availability, and demonstrated use dating back to at least August 30, 2021.

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## Original Design and Real-World Development

CAMCoolER LLC is the original designer and manufacturer of purpose-built active cooling systems for action and/or streaming cameras used in long-duration static recording and/or streaming environments.

These products were not theoretical concepts. They were designed, manufactured, sold, tested, and used in real-world applications where camera overheating is a known and repeatable problem.

CAMCoolER systems have been developed through years of field use, including extreme heat testing in Arizona conditions.

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## Notice

This page is published as a public technical disclosure and prior art notice. It is intended to document CAMCoolER LLC's public development, sale, and use of active airflow-based camera cooling systems.

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