



# LEGAL RECORDING SOLUTIONS AND MORE

NAVIATION AB

August 2024





**Our recording solution is born out of the Air Traffic Management sector where the ability to step back in time and review the details of an incident is paramount.**

## **Facts**

When an incident occurs in air traffic management, there is an immediate need to ascertain the facts. Internal reviews and, at times, government investigations require detailed information about the positions and distances between aircraft, as well as any communication—or lack thereof—between air traffic control and the aircraft in the moments leading up to the incident.

## **Safety**

From a safety perspective, it is crucial to review all the parameters available to both the air traffic controller and the pilot in the moments leading up to an incident. For this reason, all air traffic control communications are recorded. Additionally, it is highly beneficial—and in most countries mandatory—to record the exact content displayed on air traffic control screens for subsequent review.







## Broader Industry Applications

While this practice is mandated by regulations in the Air Traffic Management (ATM) sector and some others, it can also be highly beneficial for organizations in various other sectors to adopt the same recording methodology and equipment. Doing so enables the review and evaluation of a system or an individual's performance at a later point in time, enhancing overall safety and accountability.





## Technological platform - Hardware

After years of research, testing, and fine-tuning purpose-built embedded systems, we have developed a simple yet powerful product. We are excited to introduce an all-in-one recording system capable of continuous screen capture, with optional audio input capabilities.

- **The smallest form factor on the market**
- **The most cost-efficient**
- **The easiest to deploy (and replace)**
- **The most flexible in data retrieval**







## Leading competitor

Installing equipment from our competitors often necessitates a floor-to-ceiling rack, significantly inflating manufacturing, transportation, and installation costs, along with ongoing expenses for repair and replacement. These setups also require substantial space, generate considerable heat, and lead to higher overall operational costs—not to mention the need for highly specialized PC hardware just to interface with your data for playback and recovery.

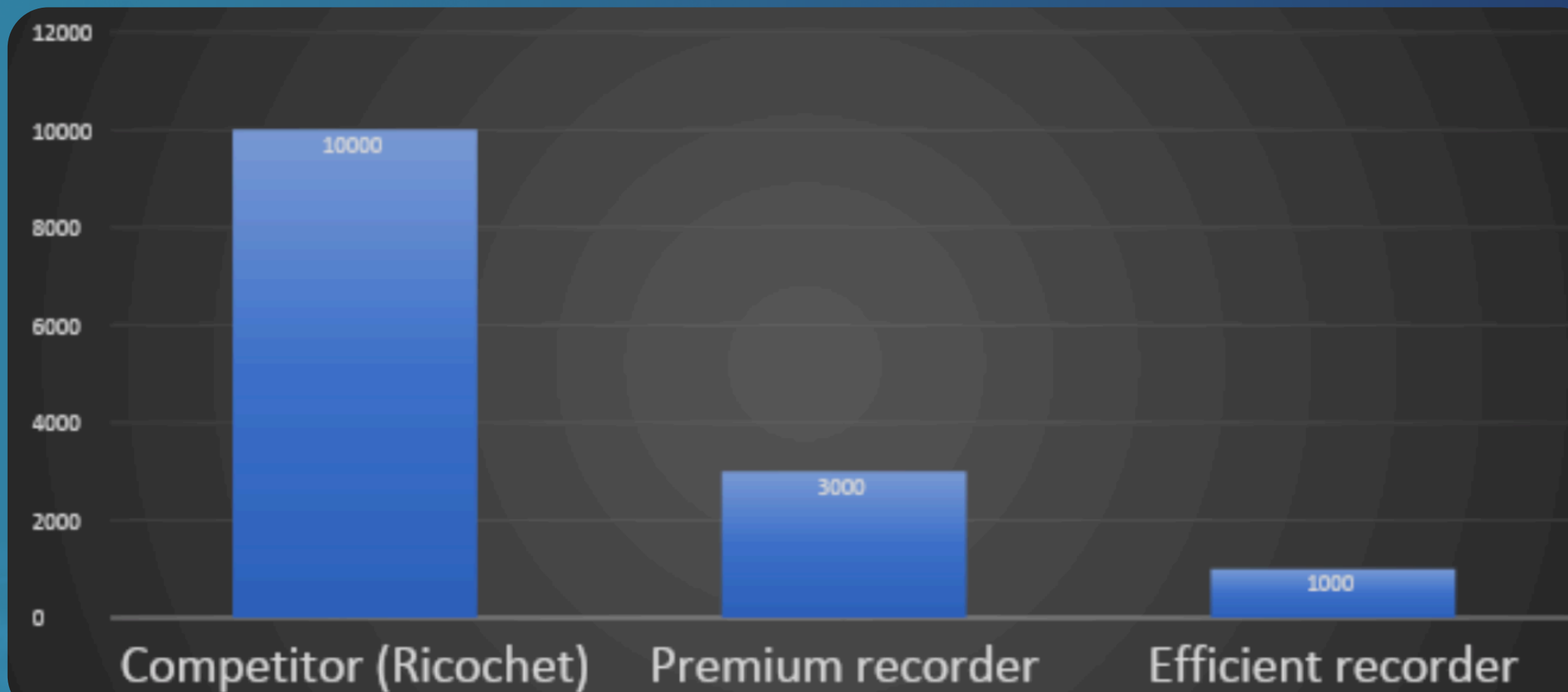
1. **Manufacture & transportation cost**
2. **Installation, repair & replacement cost**
3. **Space required & heat generated**
4. **Highly specialized PC gear**







## Installation cost comparison

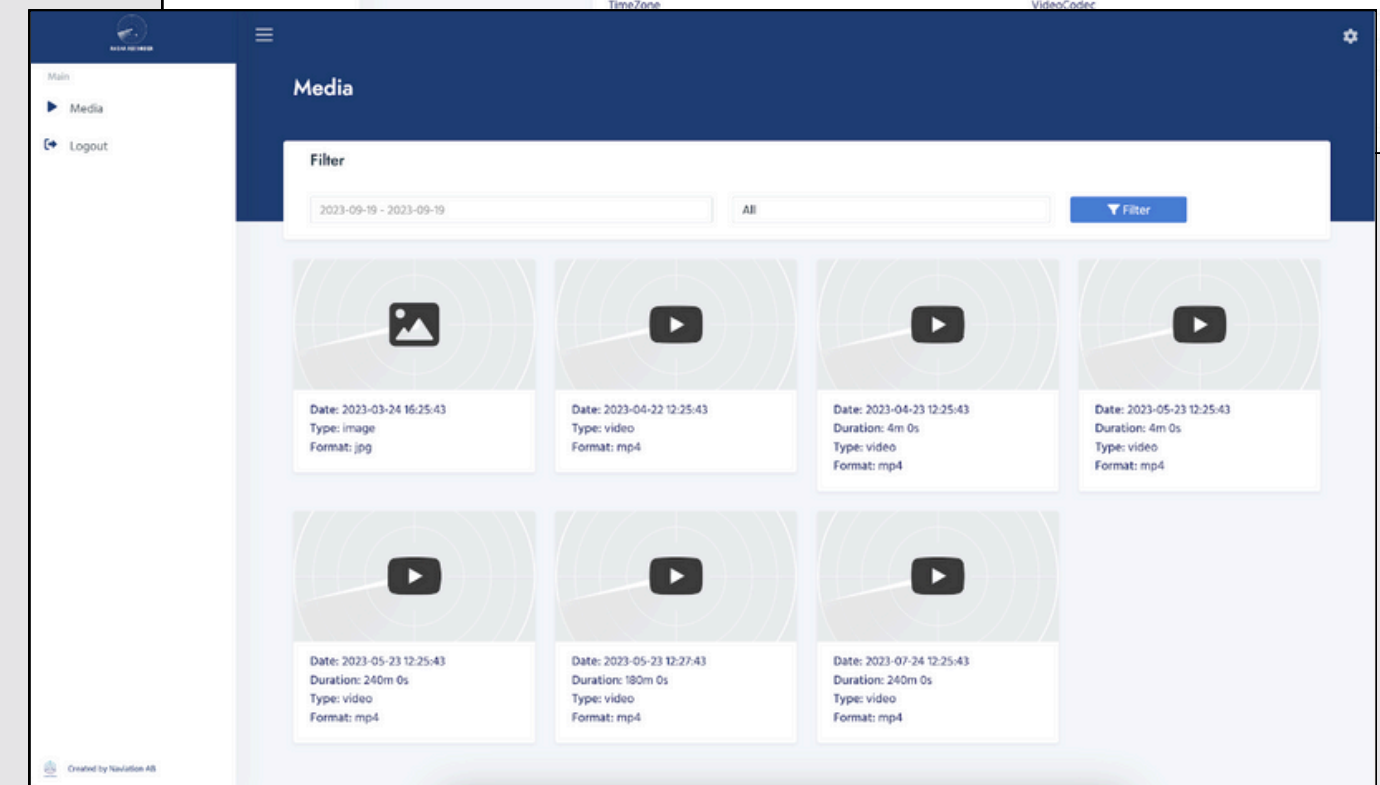
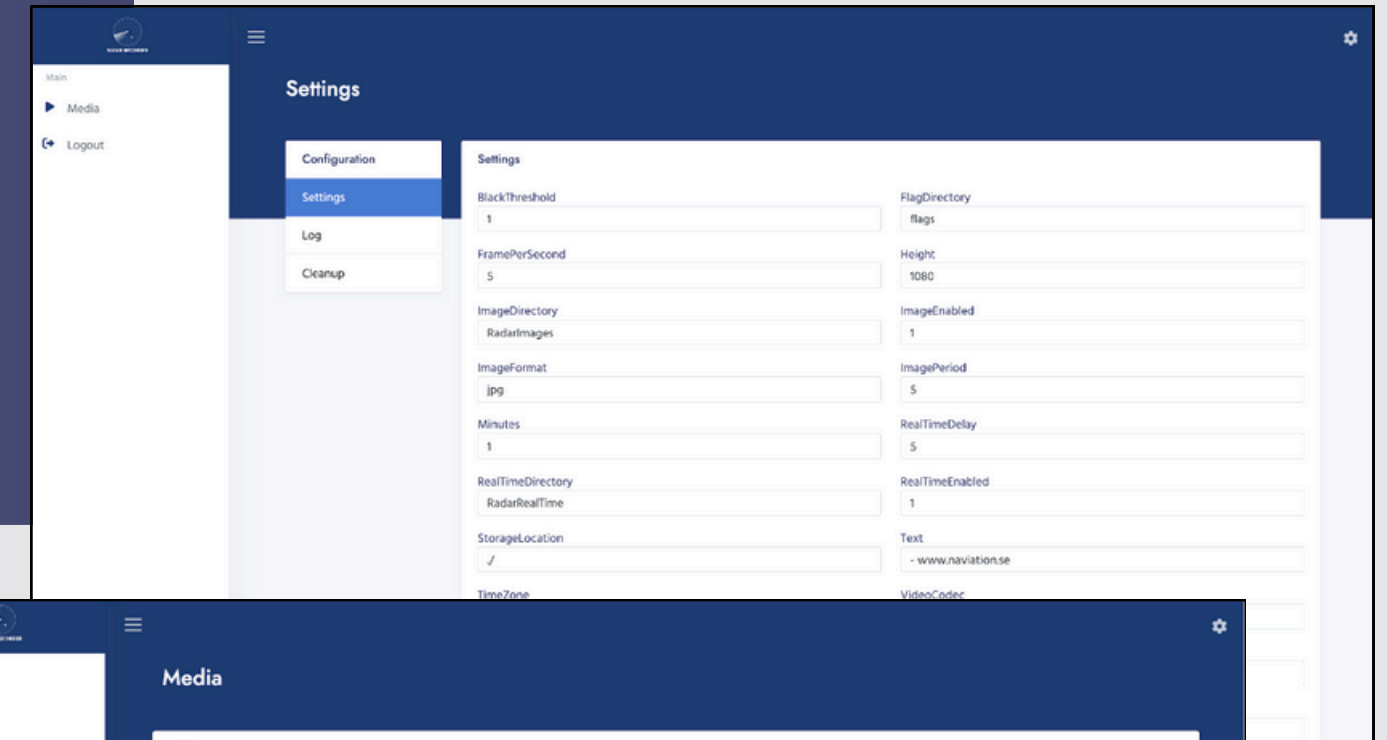


When you compare the installation cost alone—without even factoring in other cost drivers like maintenance, replacement, heat generation, and space requirements—it becomes clear that the new recording solution offers an intriguing and highly cost-effective alternative. This perspective highlights the substantial potential savings and efficiencies that can be achieved with our cutting-edge technology.



# Technological platform - Software

- Proprietary application for analyzing input data and storing with appropriate compression and format.
- Made to operate in isolated environments over long periods of time (optional audio alerts and error codes to call attention).
- Accessible over web browser interface.
  - Either connect **over** a securely segmented portion of the facilities **network** (LAN) OR
  - Connect your computer **directly to the device** with a network cable OR
  - Make use of the recorders **instant upload capabilities** (continue reading...)





## Upload & Cloud Capabilities



- The recorder can be configured to instantly upload any **recordings to a server** (also by proprietary software).
- The server can be located on the same secure network/network segment (only accessible **inside your physical perimeter**)
- For less security-critical applications, the server can be located anywhere on the internet.
  - To secure this connection you can establish VPN between the recorder and the server (perhaps the server is located in your private cloud, accessible only from certain physical locations) OR
  - You can choose to not take measures to further secure the transfer/storage of your recordings (perhaps your application is not classified material, read on...)





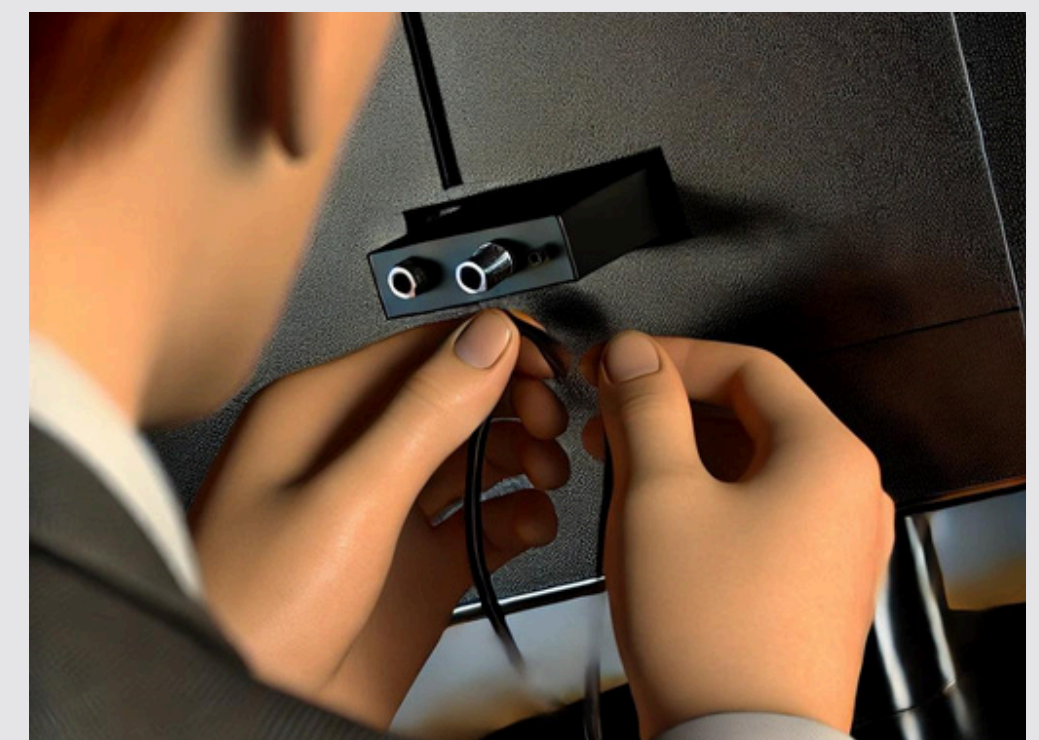
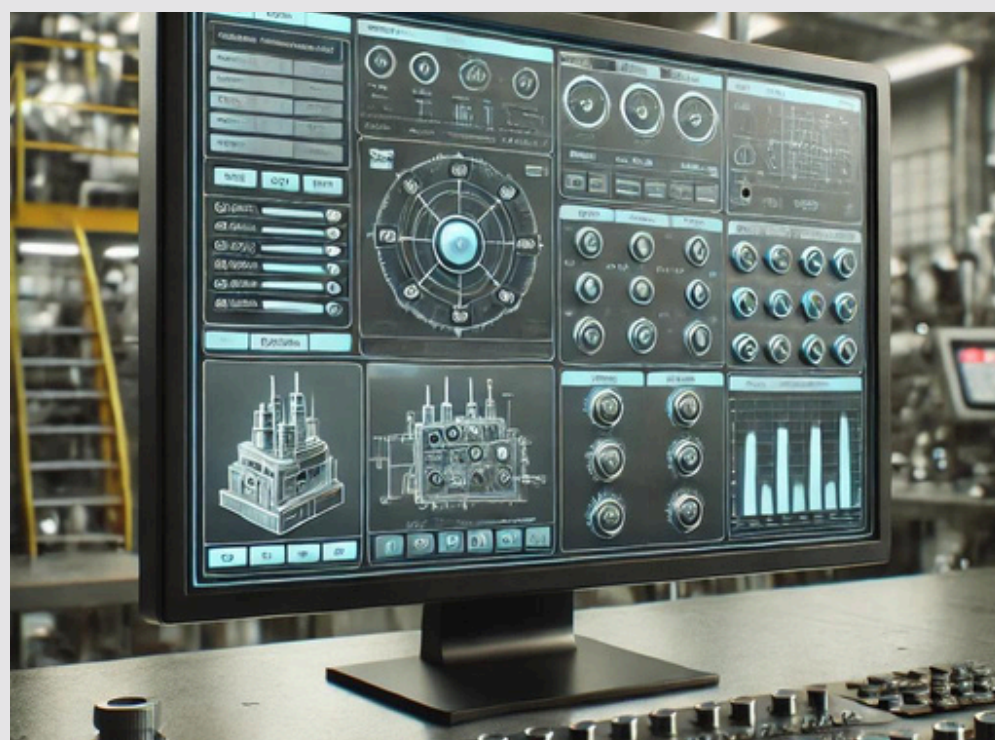
## Other industry applications



We have previously discussed mainly recording of sensitive or classified material, but the recording solution is versatile enough to be used for a wide range of other applications such as

- Cloning a screen for **real-time monitoring** at a different location, such as in production environments or security monitoring.
- Cloning a screen for **web publication**. In the Air Traffic Management sector, for example, meteorological sensor data can be shared directly from the Air Traffic Control Tower's screen for pilots and other stakeholders
- Organizations like law enforcement agencies could benefit from the device as a simple, anonymous, and untraceable\* tool for **discreetly collecting** video and audio **data on a subject**

\*Ask us how





# Highly customizable CCTV applications

- The input source for the recorder is not limited to screen capture devices or VGA/HDMI/DVI or DisplayPort connections. Any compatible USB camera can also be connected and recorded
- Further customizations for handling the recorded material are available, including AI processing of the footage
- Thanks to the recorder's instant upload capabilities, AI processing is not constrained by the recorder's hardware limitations but can leverage the power of a server array in a remote location.

Perhaps you wish to record a location and do some advanced image processing to extract data. Depending on the captured and extracted data, perhaps the server should take any number of actions such as notifying, warning, flagging etc. We have worked on traffic camera analysis programs to mention one possible field of AI imagery processing.





An abstract graphic on the left side of the slide, consisting of a network of white dots connected by thin white lines, set against a dark blue background. The dots and lines vary in opacity, creating a sense of depth and connectivity.

# THANK YOU

## NAVIATION AB

Address	<b>Alingsås, Sweden</b>
Contact	<b>+46 768 164 888</b>
Email	<b>mattias@naviation.se</b>
Social Media	<b>IN naviation-ab</b>

[www.naviation.se](http://www.naviation.se)