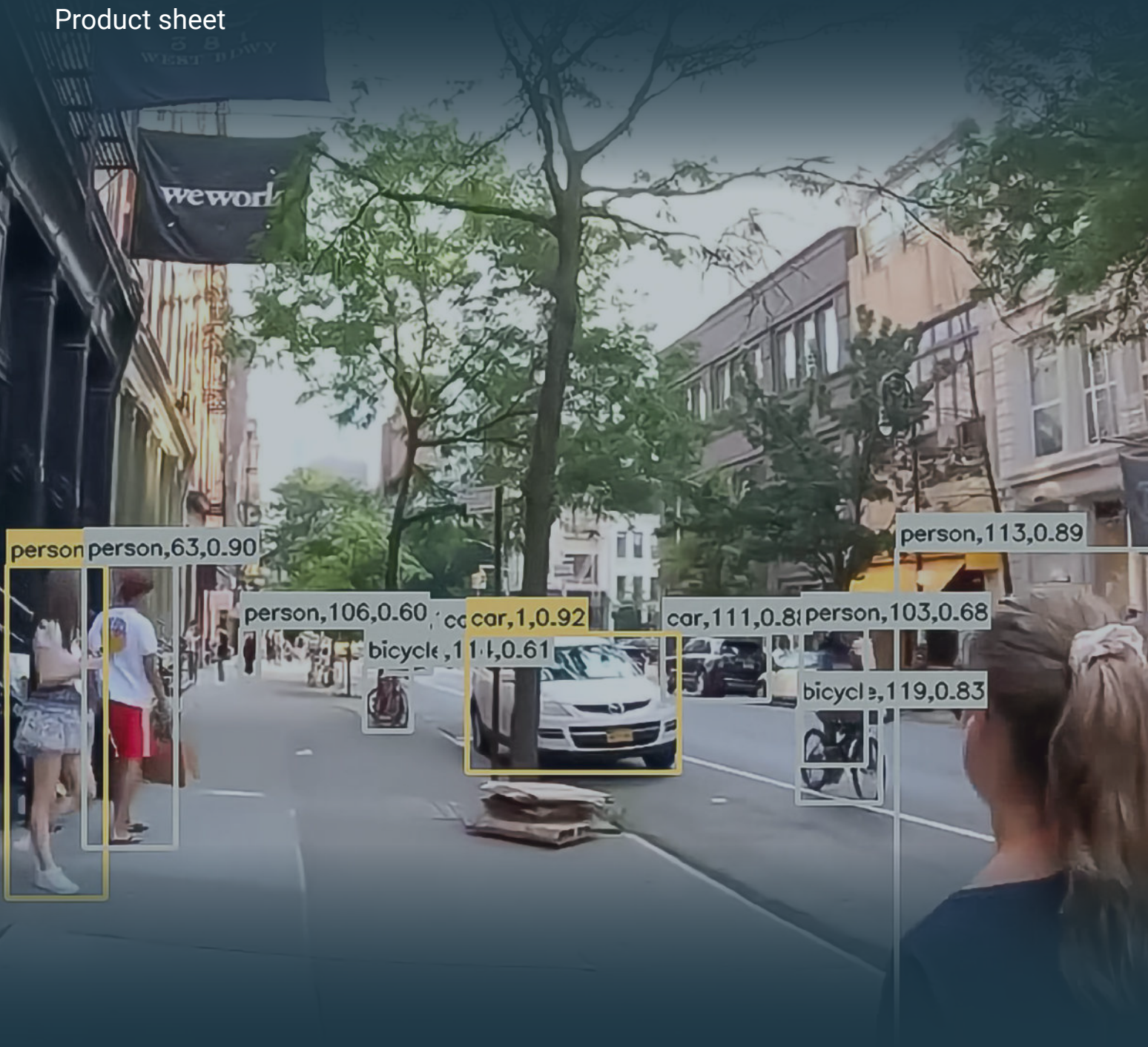


# IRIS+™ Professional

Product sheet



IRIS+ Professional is a next-generation video analytics platform that enables text-based searches and complex event detection across live and historical video data in a single, seamless interface.

# Welcome to IRIS+ Professional

IRIS+ Professional is a cutting-edge video analytics platform designed for both live, forensic and historical data. Powered by state-of-the-art deep learning and multimodal models, it provides unparalleled flexibility, scalability, and efficiency. By separating the analytics workflow into two distinct phases – **Indexing** and **Querying** – IRIS+ Professional delivers fast, robust, and adaptive solutions across a wide range of use cases.

IRIS+ ForensiQ is a vital part of IRIS+ Professional empowering video investigators to quickly identify individuals and objects of interest using free-text search, analyze hours of footage within minutes, and streamline collaboration for faster case resolution. With its unparalleled speed, easy to use interface and built-in redaction capabilities the return on investment in time saved and the value it brings, is unmatched.

## Powerful in all aspects

**Speed of Installation:** Download the license file, run it and in less than 30 minutes (upon the installation) the AI automatically begins indexing the field of view, detecting and categorizing objects, people, and activities in real time for seamless search and analysis.

**Reduced hardware cost:** Leveraging state-of-the-art models IRIS+ ForensiQ capitalizes on reduced inference / hardware costs and a shift toward more general, reusable neural networks. This enables text-based video searches, powerful few-shot learning, and rapid classifier deployment.

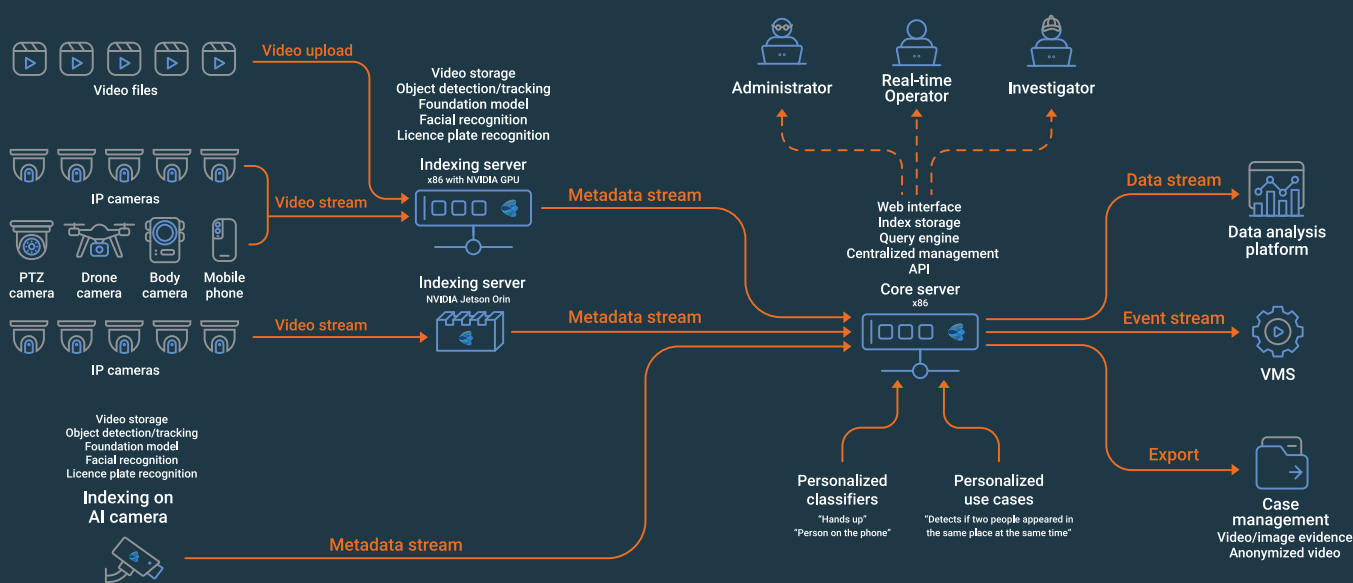
**Simple License Structure:** Perpetual license and pay per channel. Included is unlimited users, unlimited search and case management as well as unlimited queries.

- ▶ Runs on x86 hardware with NVIDIA GPUs
- ▶ Add pluggable components
- ▶ Supports fixed and moving cameras

## System Definitions

Built on x86 hardware with NVIDIA GPUs, IRIS+ Professional ensures high-performance processing, enabling efficient deep learning inference at scale. Its innovative two-phase approach — Indexing and Querying — creates a compact metadata index that supports object detection and background analysis for fast and flexible searches.

System Component	Description
Core server	There is one central Core that handles central management, it stores index metadata and runs live and ad-hoc queries.
Indexing server	The indexing server stores and processes video streams and manages deep learning models such as object detection, tracking, face recognition and more.
Query engine	Query engine is a service running on the Core. It runs live and ad-hoc queries.
Video storage	Video storage is a service on the indexing server. It stores high quality video data coming from IP cameras or uploaded videos.
IP camera and VMS/NVR	IRIS+ Professional supports and analyzes any type of RTSP stream coming directly from an IP camera or VMS/NVR. This can be fixed as well as moving cameras being PTZ, Drone, Mobile as well as Body worn cameras.
Server hardware	The hardware platforms supported are x86 with NVidia GPU, NVidia jetson or AI cameras.
API Integration	Being ready to integrate, IRIS+ Professional has an Open API for third party integrations.



# IRIS+ Professional Benefits - A Unified Solution

This is a next-generation video analytics platform that enables text-based searches and complex event detection across live and historical video data in a single, seamless interface. Understanding key definitions will give you insights into how IRIS+ Professional transforms video surveillance into a proactive, data-driven solution.

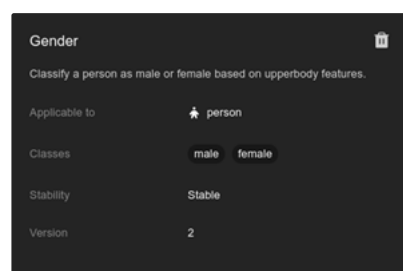
Capabilities	Explanation
The solution in short	IRIS+ Professional AI platform enables text-based and forensic searches and complex event detection across live and historical video data in a single, seamless interface. By separating the process into indexing and querying, it ensures efficient storage and fast, flexible searches.
AI Classifier	An AI Classifier classifies an object or background to a predefined set of classes. This can be for example a person wearing/not wearing face mask, a person wearing/not wearing PPE helmet and more.
Use Cases	The solution has built-in use cases such as near miss detection, tailgating and more.
Free text Search	The powerful search capabilities include free text search where the operator/user can write what to search for. Example "find a person in red shoes sitting and watching their phone." This is also known as Natural Language Queries.
Instant search	Define search queries and save them by allowing the operator/user to have instant search capabilities to retrieve vast video data within seconds. Multi-camera search is supported in Live as well as playback.
Multi-layer Rule engine	The multi-layer rule engine allows for applying two filters at the same time. Mix-and-match two different rules, object types as well as object parameters for example, "detect cars" + "running red lights".
Combined Event Detection	Identify intricate events e.g., "Detect cars running red lights".
Face recognition	Face recognition, face search, white/black-list detection, track and trace and/or person re-identification is included as part of the solution. (Available Q2)
Anonymizer (blurring)	Redaction works in Forensic, Offline Analytics and as well as exported/uploaded video footage when building the case management. The Anonymizer is designed to blur individuals and blur levels can be configured down to excluding specific individuals from anonymization.
License Plate Recognition	Search for license plates, track the full car journey, define white/black-list detections and capture generic and country independent license plates. (Available Q2)
User, - and Centralized Management	User based permission (multiuser level.) Centralized management allows administrators to control and monitor the entire surveillance network from a single interface. (Q2)

# AI Classifiers

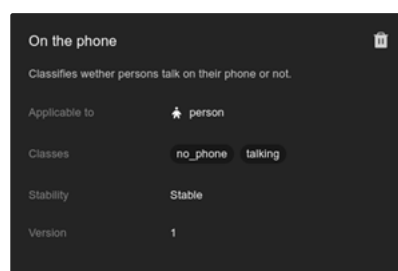
The AI classifiers are a fundamental component in the solution as they are used to categorize data into predefined groups based on patterns and features. This can be identifying objects, actions, and scenes, enabling automated decision-making and insights extraction.

Classifier	Behavior	Area
Person posing	A person's pose as standing, sitting or lying down	Healthcare, Safety, Workplace, Transportation (rails)
Person holds a phone	A person is talking on the phone	Safety zone / where cell phones are not allowed
Person raising hands	Detects if a person raises both hands up (or not)	Bank, Malls, Retail, Public spaces, Schools
Person with helmet (PPE)*	Detects if a person wears or not a safety helmet	Safety in construction sites and zones
Person with vest (PPE)*	Detects if a person wears or not a safety vest	Safety in construction sites and zones
Person with face mask	Detects if a person wears or not a face mask	Healthcare medical staff/patients, riots in public
Fire and smoke	Detects if there is fire or smoke in the background.	Fires in remote areas or buildings
Vehicle in Construction	Classifies and detects a construction vehicle (12 classes)	Construction sites as well as Safety announcements
Vehicle for Emergency	Classifies a vehicle as normal/emergency	Smart Traffic, Vehicles for Healthcare Facilities

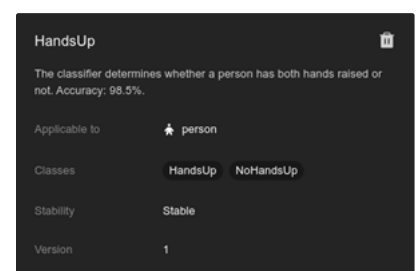
\* Personal Protection Equipment (PPE)



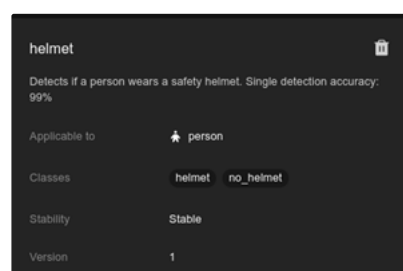
**Gender Classifier:** Classify a person as male or female based on upperbody features



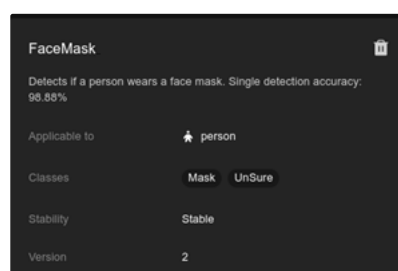
**On the phone Classifier:** Classifies whether a person is on the phone



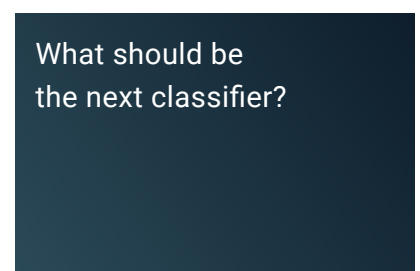
**HandsUp Classifier:** Determines whether a person has both hands raised



**Helmet Classifier:** Detects if a person wears a helmet



**FaceMask Classifier:** Detects if a person wears a face mask.





# General and Personalized Use Cases in AI and Classifiers

Artificial Intelligence (AI) and machine learning classifiers serve a wide range of applications, which can broadly be categorized into **general use cases** and **personalized use cases**.

IRIS+ Professional brings a flexible rule engine that allows users to create tailored search scenarios using a comprehensive set of filters and combinations. These search filters enable highly specific queries across video streams or recordings to find objects and events of interest. Search by object type, attributes as gender, helmet and more, movement patterns, zones, object size, and detection confidence. These use cases address real-world challenges by leveraging advanced video analytics technology, such as Object detection, Tailgating, or Behavior Analysis. Examples include detecting unauthorized access, counting objects or vehicles, identifying safety violations, or conducting text-based video searches

## General use cases

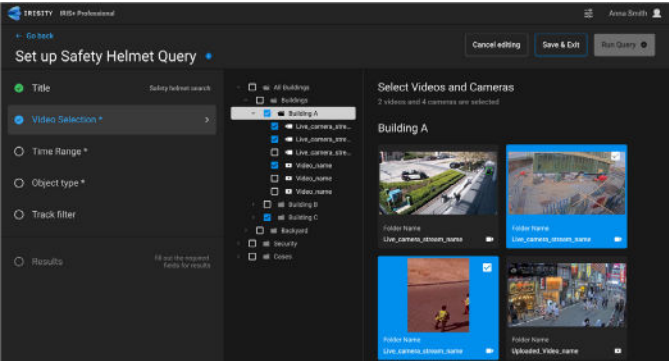
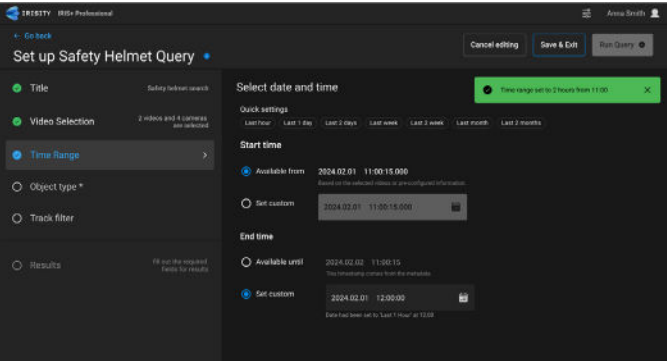
Use case	Description & Scenario
Dwell/travel time analysis.	Measure dwell and/or travel time between predefined areas and zones. IRIS+ Professional re-identify by face.
Intrusion /loitering	Detect if a person enters an area and stays there for a given time.
Pedestrian crosswalk	Detects if a vehicle does not yield for a pedestrian.
Red light car crossing	Detects if a vehicle runs the red light.
Car in bus lane.	Detects if a car is in the bus lane.
Car stop	Detects if a vehicle stops in a restricted area.

## Personalized use cases

Use case	Description & Scenario
Video	Select set of videos and/or streams
Object type	Supports 80 different object types (person, vehicles, objects) and background included
Object classifier	Apply any of the registered classifiers (e.g: gender, wearing mask, PPE, etc)
Object movement	Enable search by movement: start, stop, line cross, moving, stationary
Zone	Define the zone for the analytics
Object size	Filter by pixel size range.
Detection confidence	Filter by detection confidence from 0 - 100%.
Joint filtering	Combine two filters by space, time and object

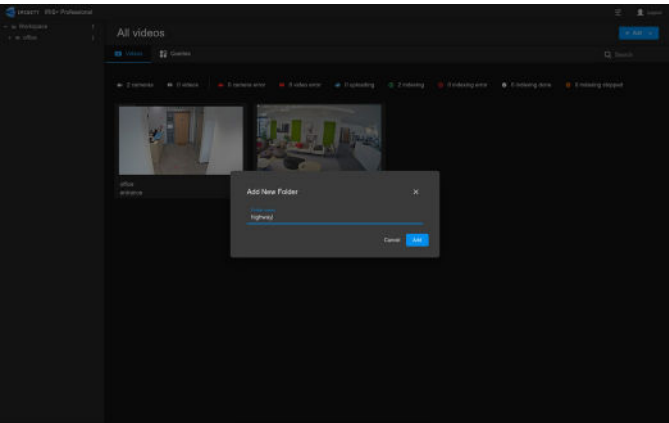
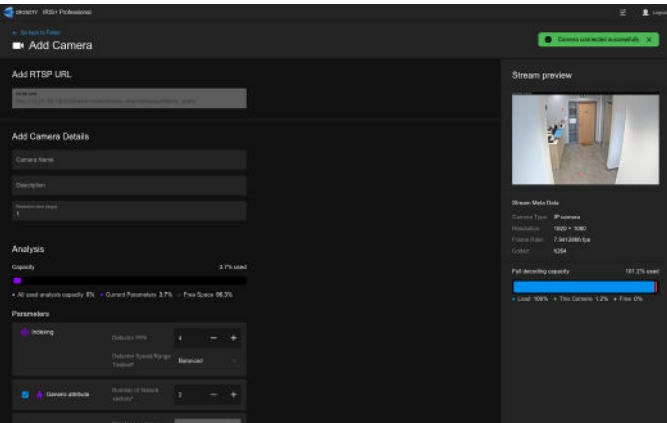
# Easy to use interface, with detailed overview

Smart view capabilities offers distinct advantages for security, investigations, and operational efficiency.



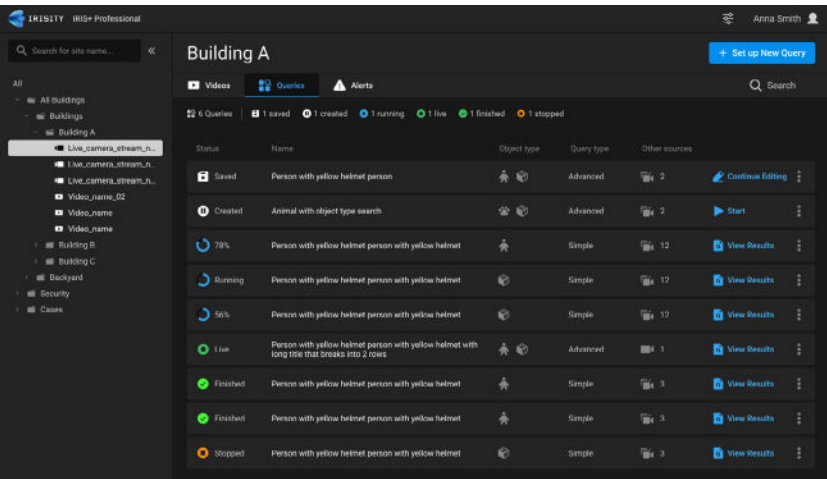
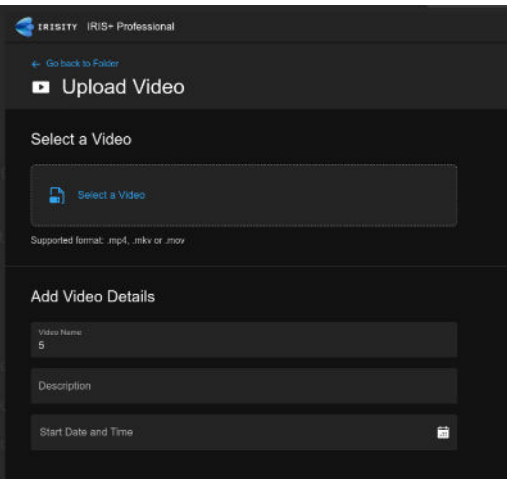
# Easy to configure

With adaptive and personalized filters, users can refine searches by date, time, classifiers, tailoring results to their needs.



# Video upload and case management

Unlock actionable insights from both live and recorded video with unparalleled speed and accuracy.



# See what matters, when it matters

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