HDS AI Software Solutions

Unified monitoring, forensic search, intelligent events and operator assistance



Software and integration by HDS

One interface connects live monitoring, AI events and forensic investigation

MONITOR

Live operations

Camera views, maps, alarms, device status and operator workflows.

SEARCH

Forensic analytics

Search people, faces, vehicles and other detected objects using visual filters.

RESPOND

Events and alarms

Prioritise events, verify evidence and record the operator response.

ANALYSE

Statistics and reports

Compare activity, event types, locations and time periods.

The platform combines specialist AI sources while preserving a consistent operator experience.

The HDS AI assistant helps operators navigate data and actions

QUERY

Natural-language support

Help users locate cameras, events, reports or relevant functions.

CONTEXT

Current workspace

Use the active screen and selected records to provide focused assistance.

GUIDANCE

Suggested next steps

Support consistent verification and escalation without hiding operator control.

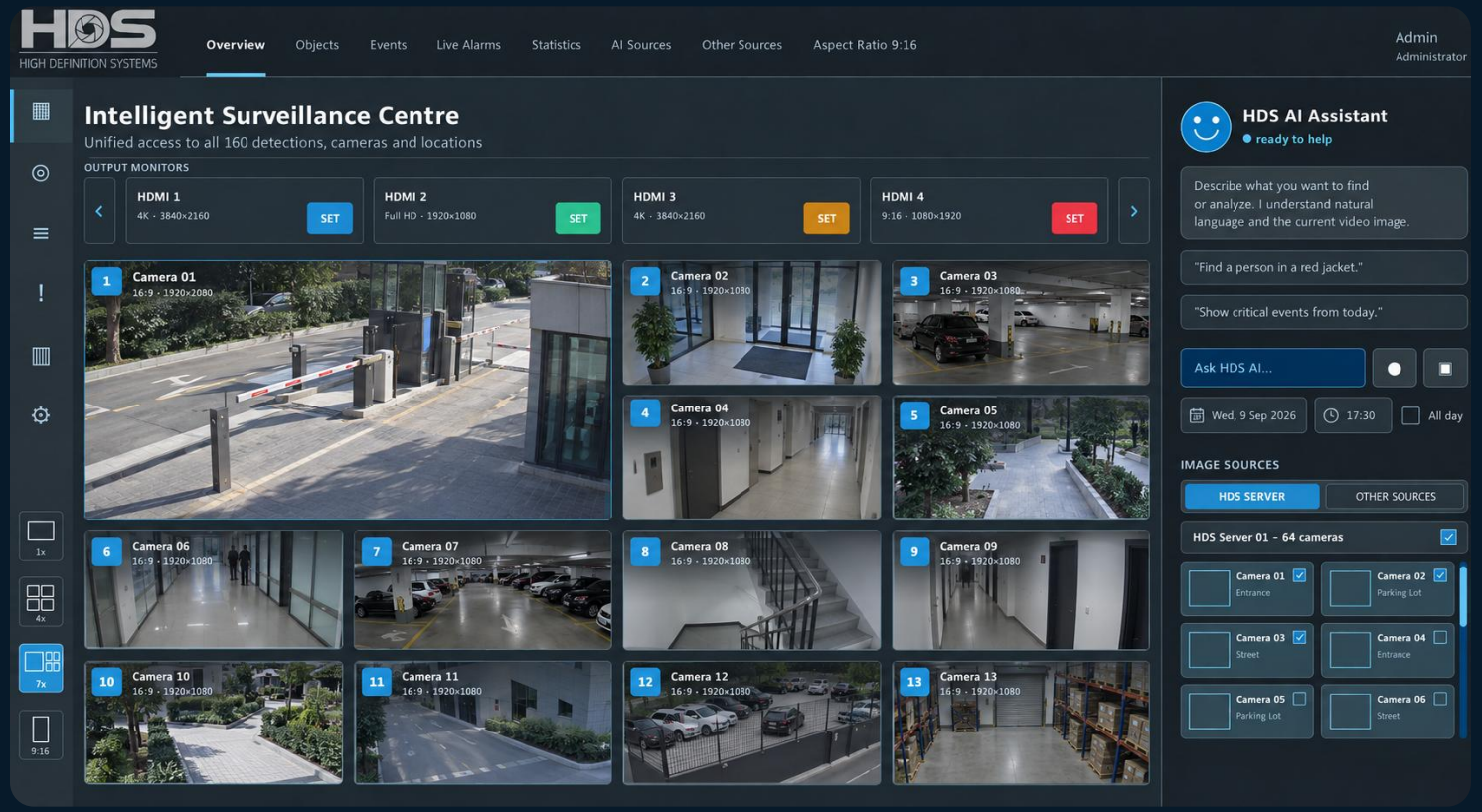
AUDIT

Traceable decisions

Keep user actions and system events available for operational review.



A unified surveillance centre provides one operational picture



LIVE VIDEO

Multi-camera monitoring

Arrange relevant live and recorded streams by site, incident or operator role.

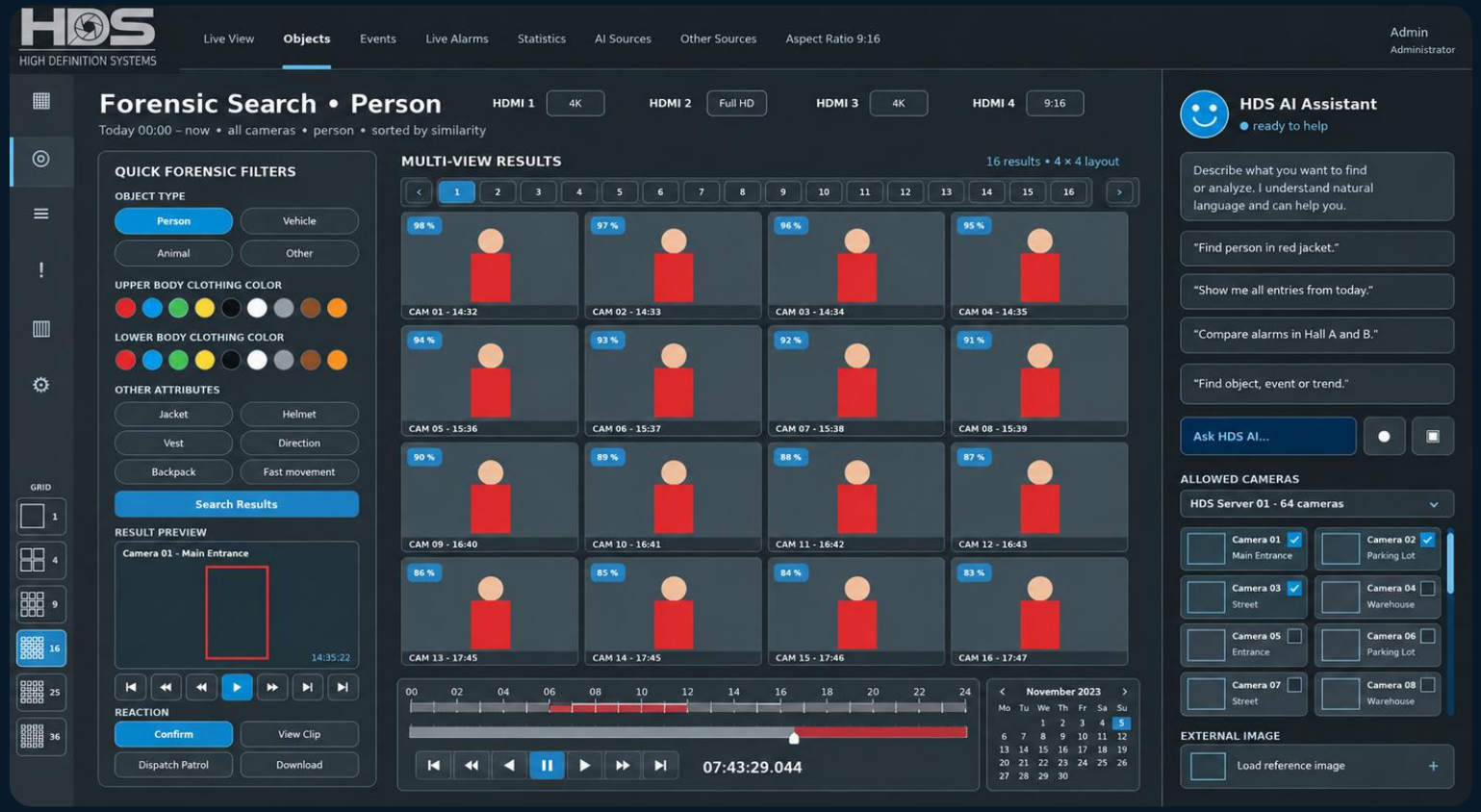
AI CONTEXT

Events beside video

Display active detections, status and assistant guidance without changing tools.

Operators can move from detection to verification and investigation in the same workspace.

Person search converts visual attributes into a reviewable result set



FILTERS

Visual description

Search configured attributes such as clothing colours, accessories and direction.

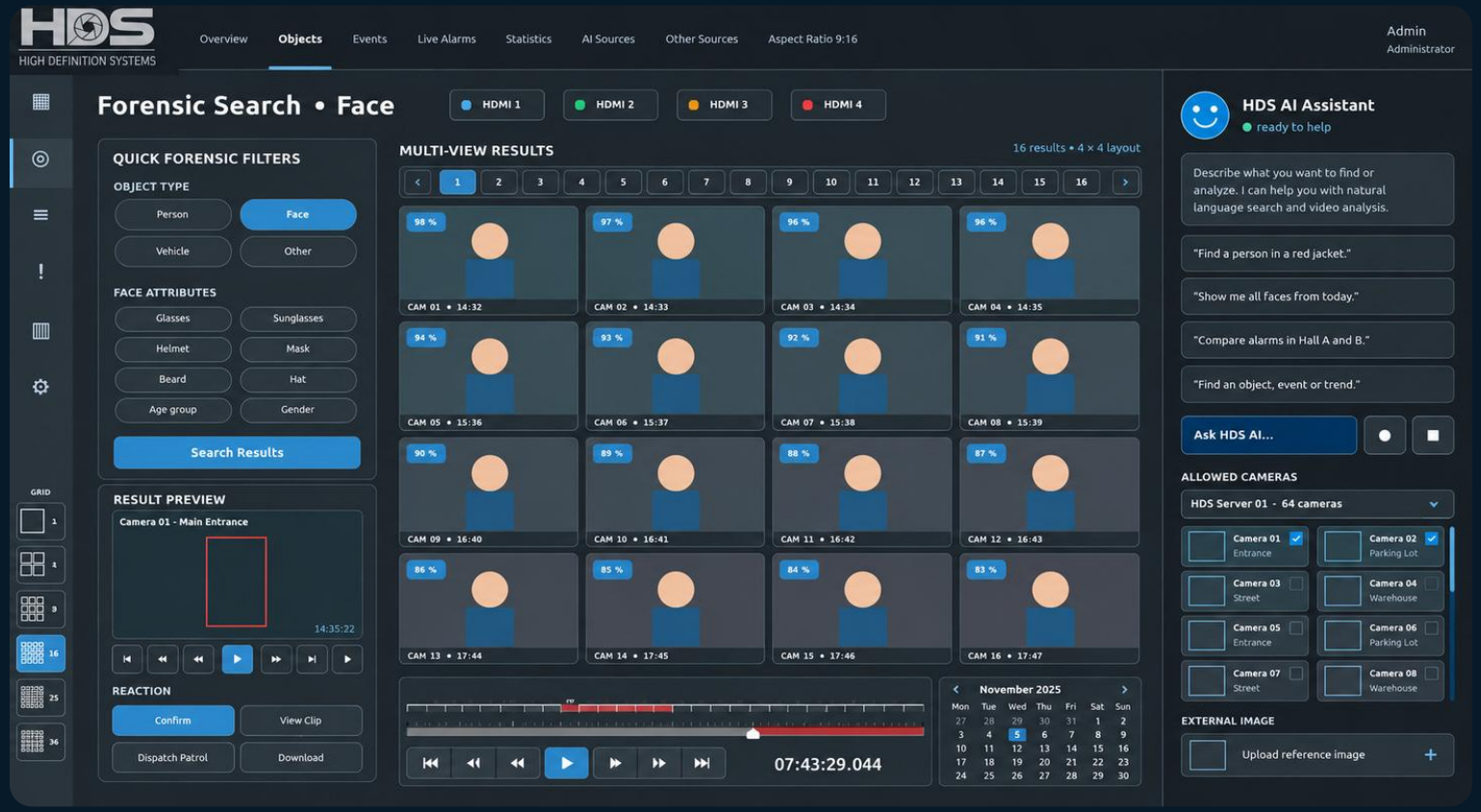
RESULTS

Comparable detections

Review candidate thumbnails, camera locations and timestamps in one screen.

The operator validates every result against the recorded video and investigation context.

Face search supports rapid comparison across recorded sources



REFERENCE

Selected face image

Use an authorised reference image or a detected face as the search input.

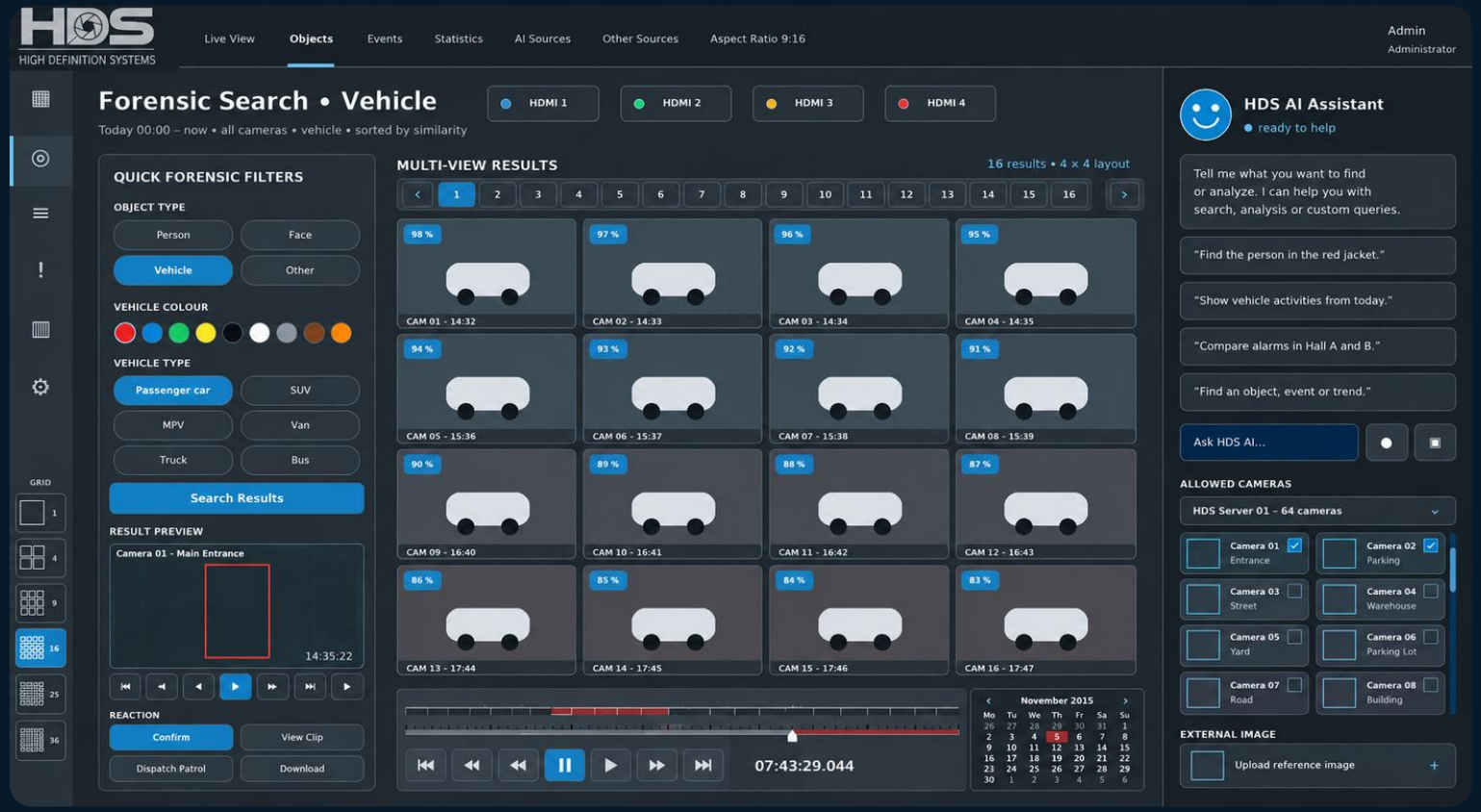
MATCHING

Candidate review

Compare ranked results with time, location and source video before confirmation.

Deployment requires a defined lawful purpose, access control and retention policy.

Vehicle search combines appearance, class and event metadata



ATTRIBUTES

Vehicle description

Filter by configured type, colour, direction and available plate information.

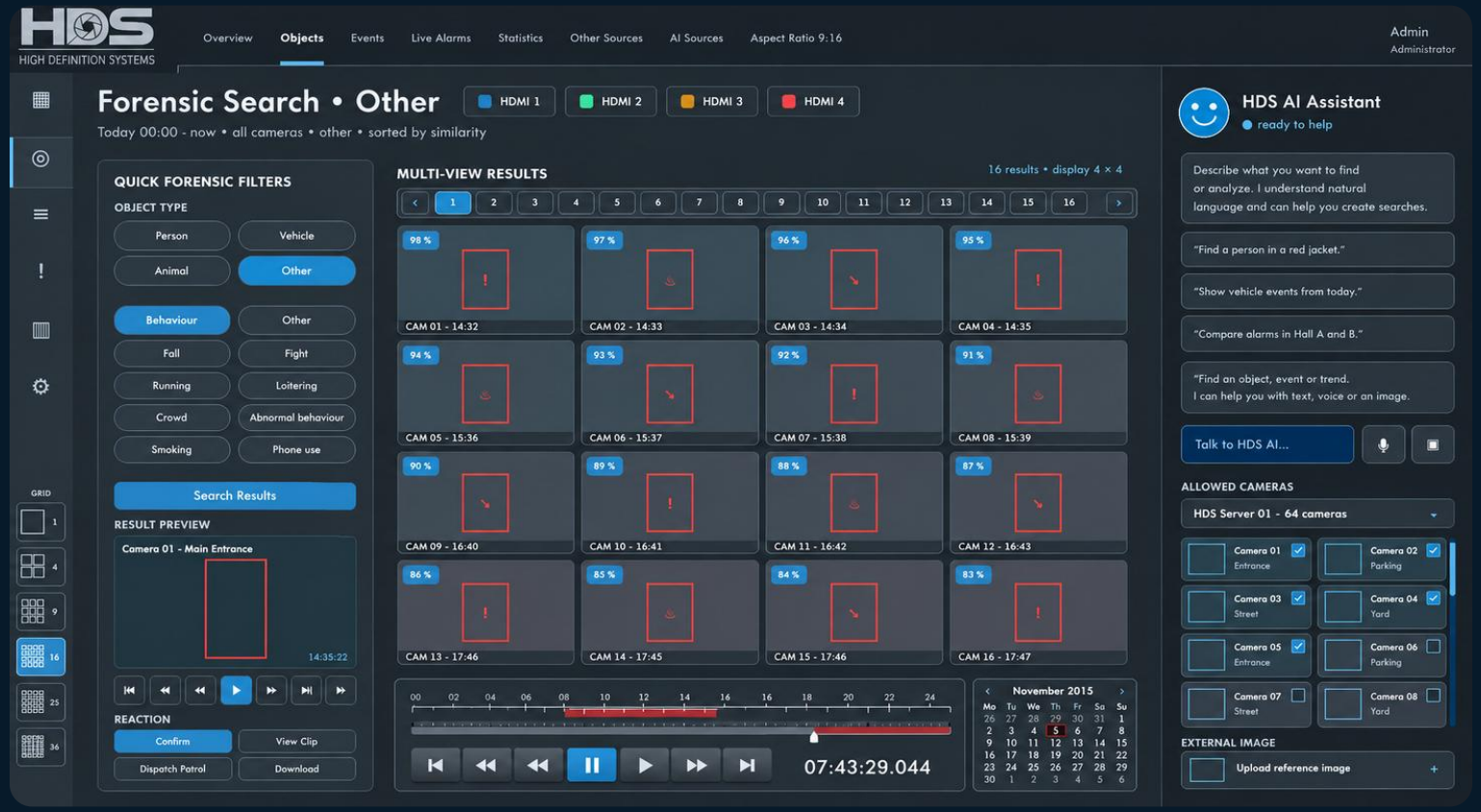
TIMELINE

Movement context

Review detections across cameras and time to reconstruct a route or event.

Available metadata depends on the connected analytics source and camera view.

Flexible object search supports use cases outside standard classes



CUSTOM CLASSES

Configured detections

Search object classes provided by connected AI models or specialist sensors.

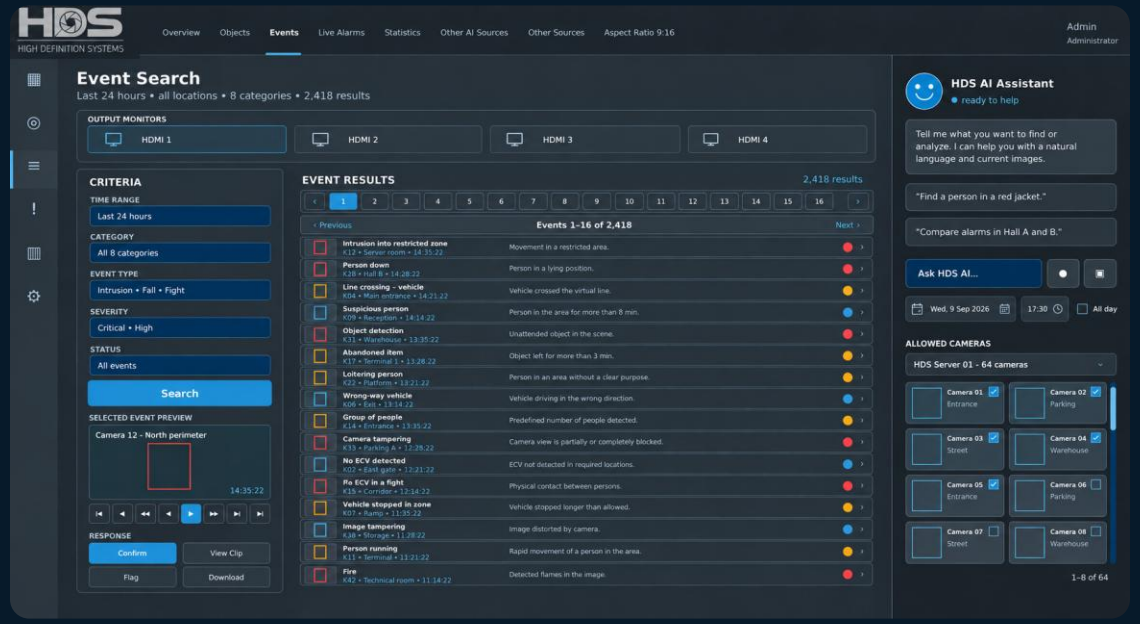
BOUNDING AREA

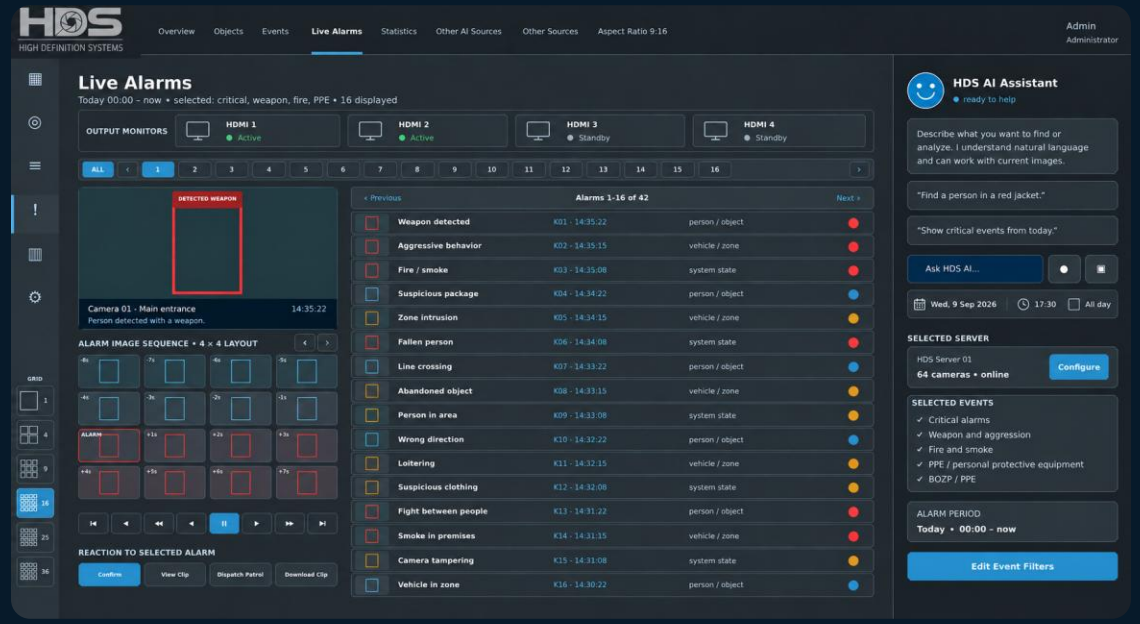
Visual filtering

Define location, colour or region criteria when the source provides these attributes.

HDS integrates the result into the same evidence, timeline and export workflow.

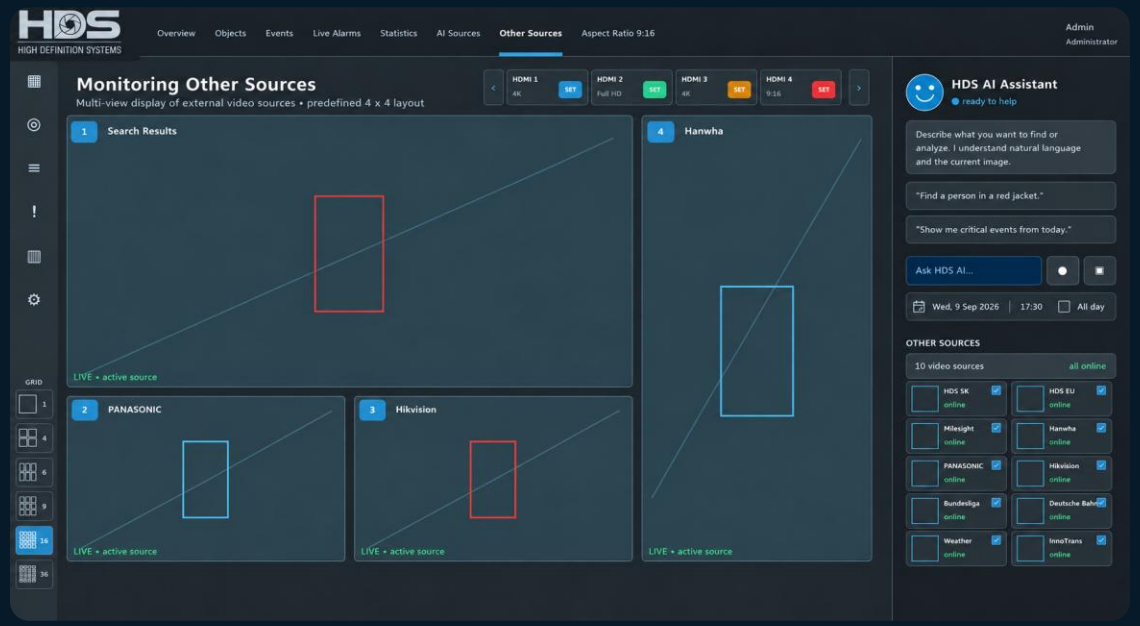
Event search and live alarms keep urgent activity separate from routine monitoring

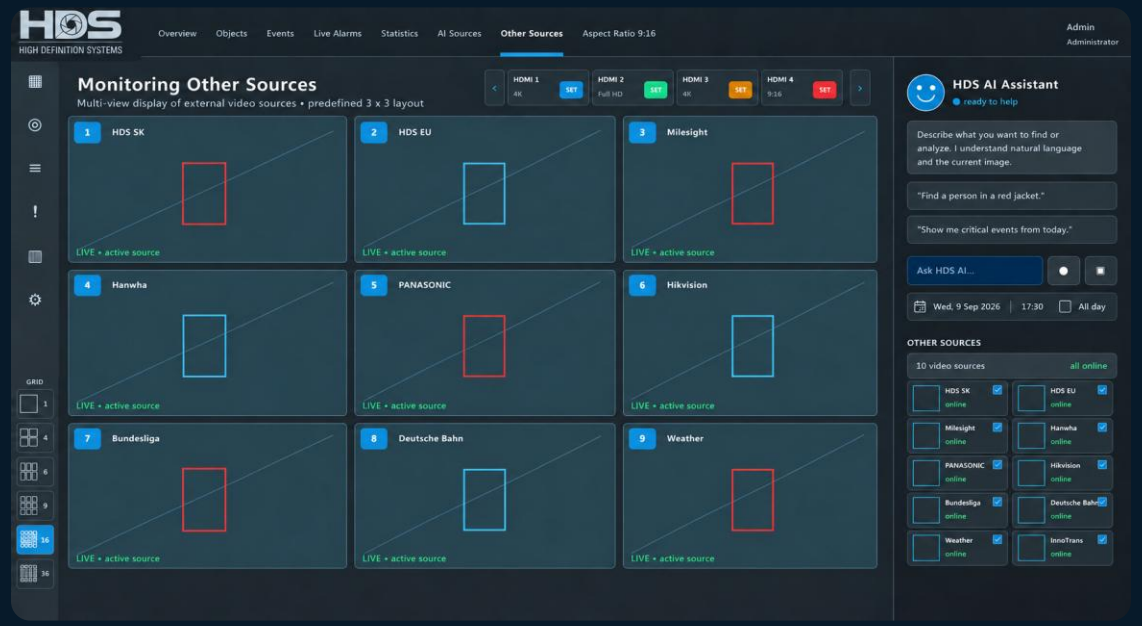




Search by source, event type, time and status. Verify the evidence, acknowledge the alarm and record the response.

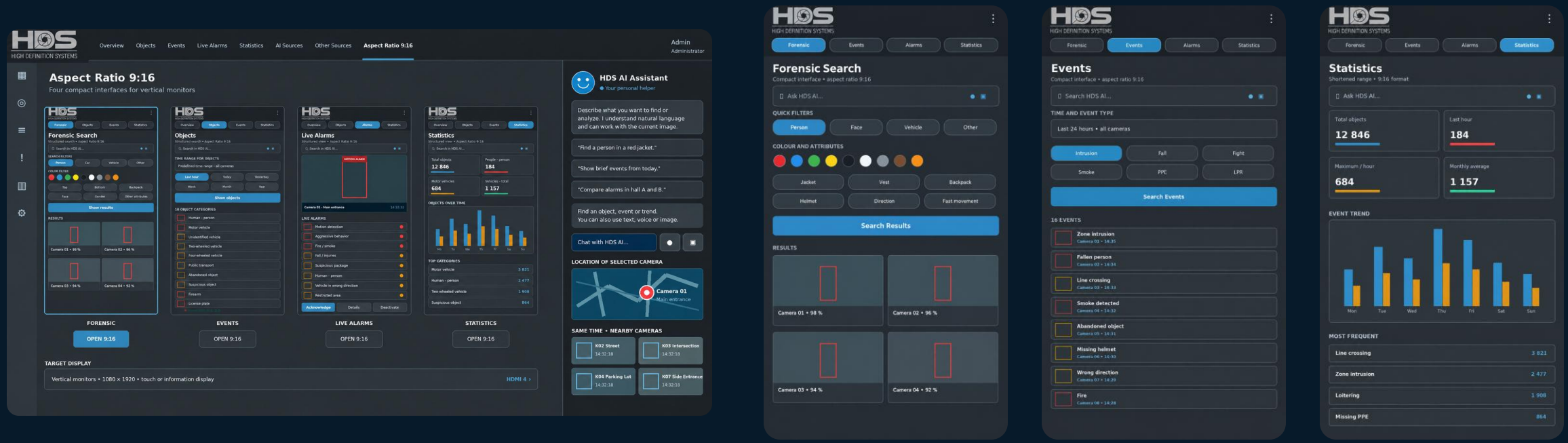
The monitoring workspace can combine events from multiple AI systems





Source adapters normalise event type, location, time, confidence and supporting media for the operator.

A vertical interface brings key workflows to mobile and portrait displays



Overview, forensic search, events and statistics remain available in a layout designed for narrow screens.

Operational reporting turns event history into measurable service information



DASHBOARDS

Current situation

Track event volumes, categories, response status and selected performance indicators.

REPORTS

Comparable periods

Filter by time, site, device, event type or workflow status and export results.

Reporting can combine video analytics with events from other connected systems.

One software layer supports several operational AI domains



Public safety



Workplace safety and movement



Traffic and visitor analytics

A life-size virtual person can present information and guide visitors

INTERACTION

Conversational assistance

A virtual presenter can answer questions and guide visitors through available services.

CONTENT

Managed information

Connect approved city, transport, building or customer-service content to the experience.

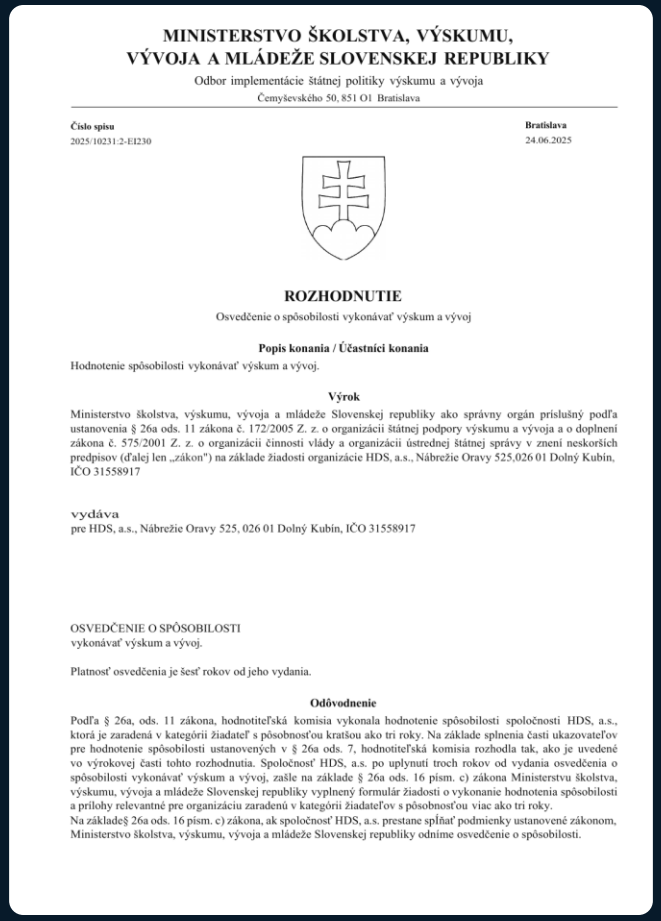
HANDOFF

Digital or human support

Transfer complex requests to a screen, QR workflow, helpdesk or live operator.



Slovak public authority confirms HDS competence to conduct research and development



MINISTERSTVO ŠKOLSTVA, VÝSKUMU,
VÝVOJA A MLÁDEŽE SLOVENSKEJ REPUBLIKY

Odbor implementácie štátnej politiky výskumu a vývoja
Čemyševského 50, 851 O1 Bratislava

Číslo spisu
2025/10231:2-EI230

Bratislava
24.06.2025

ROZHODNUTIE

Osvedčenie o spôsobilosti vykonávať výskum a vývoj

Popis konania / Účastníci konania

Hodnotenie spôsobilosti vykonávať výskum a vývoj.

Výrok

Ministerstvo školstva, výskumu, vývoja a mládeže Slovenskej republiky ako správny orgán príslušný podľa ustanovenia § 26a ods. 11 zákona č. 172/2005 Z. z. o organizácii štátnej podpory výskumu a vývoja a o doplnení zákona č. 575/2001 Z. z. o organizácii činnosti vlády a organizácii ústrednej štátnej správy v znení neskorších predpisov (ďalej len „zákon") na základe žiadosti organizácie HDS, a.s., Nábrežie Oravy 525,026 01 Dolný Kubín, IČO 31558917

vydáva
pre HDS, a.s., Nábrežie Oravy 525, 026 01 Dolný Kubín, IČO 31558917

OSVEDČENIE O SPÔSOBILOSTI
vykonávať výskum a vývoj.

Platnosť osvedčenia je šesť rokov od jeho vydania.

Odôvodnenie

Podľa § 26a, ods. 11 zákona, hodnotiteľská komisia vykonala hodnotenie spôsobilosti spoločnosti HDS, a.s., ktorá je zaradená v kategórii žiadateľ s pôsobnosťou kratšou ako tri roky. Na základe splnenia časti ukazovateľov pre hodnotenie spôsobilosti ustanovených v § 26a ods. 7, hodnotiteľská komisia rozhodla tak, ako je uvedené vo výrokovej časti tohto rozhodnutia. Spoločnosť HDS, a.s. po uplynutí troch rokov od vydania osvedčenia o spôsobilosti vykonávať výskum a vývoj, zašle na základe § 26a ods. 16 písm. c) zákona Ministerstvu školstva, výskumu, vývoja a mládeže Slovenskej republiky vyplnený formulár žiadosti o vykonanie hodnotenia spôsobilosti a prílohy relevantné pre organizáciu zaradenú v kategórii žiadateľov s pôsobnosťou viac ako tri roky.
Na základeş 26a ods. 16 písm. c) zákona, ak spoločnosť HDS, a.s. prestane spĺňať podmienky ustanovené zákonom, Ministerstvo školstva, výskumu, vývoja a mládeže Slovenskej republiky odníme osvedčenie o spôsobilosti.

OFFICIAL DECISION

Certificate of competence

The Ministry of Education, Research, Development and Youth of the Slovak Republic issued the certificate to HDS, a.s.

ISSUED

24 June 2025

Decision file 2025/10231:2-EI230 confirms the assessment of HDS competence under Slovak Act No. 172/2005 Coll.

VALIDITY

Six years from issue

The decision states that the certificate remains valid for six years from its issue, subject to the conditions in the decision and applicable law.

This official evidence supports HDS research, development and AI software activities.

HDS combines software, AI sources, operator workflows and lifecycle support

DESIGN	Use cases	Data sources	Roles	Acceptance criteria
INTEGRATION	Video systems	AI analytics	Maps	Third-party events
OPERATION	Monitoring	Investigation	Response	Reporting
LIFECYCLE	Training	Health monitoring	Updates	Service

HDS delivers the complete solution from concept and pilot to production operation.

www.hdsas.eu