

# Product Brief

## Analytics Components and Solutions

Dedicated Micros has taken advantage of the advances in analytics capability developed by our parent company, AD Group, to offer a suite of video Analytics Components and Solutions such as ANPR, Object Left/Removed, and Detection Tripwire. These Components and Solutions make monitoring pro-active and improve efficiency by alerting operators to events as they happen rather than relying on post event analysis.

The combination of world leading DVR technology and intelligent video solutions, all developed in-house, is completely unique in the industry and provides unrivalled benefits to your monitoring and detection capabilities by enabling analysis of activity and objects that adds real value to your security installation.

As our Components and Solutions have been developed in-house we have been able to design and embed them into our market leading range of digital video recorders and security devices providing seamless integration and maximum functionality for the operator.

By using this approach Dedicated Micros has been able to develop non-PC based, simple, analytics solutions that offer end users a highly flexible yet affordable system that can be easily and cost effectively expanded as requirements alter or as opportunities arise.

- Analytics Components and Solutions include ANPR Monitoring, Object Left/Removed and Detection Tripwire, ANPR Monitoring & Control, ANPR Regular Attendee and Counting Tripwire
- Bespoke Analytics Solutions available
- Seamless integration with NetVu Connected products
- Local and remote display of analytic events
- Per DVR/Video Server licences - no hardware upgrade required
- Deploy analytics as required without the need to upgrade their whole CCTV system.
- Seamless control and viewing from a single platform
- Multiple components can be combined on the same camera channel (Tripwire and Object Left/Removed)
- Full interoperability with **AnalyticsCapable** DVR's.
- Alarms raised by the analytics software can be viewed

### ANALYTICS SUITE

Our full analytics portfolio includes components and solutions for ANPR, Object Left/Removed and Tripwire detection. The Basic Analytics Components are off-the-shelf products that are quick and simple to deploy whilst our Combined Analytics Solutions take various components and pull them together to create more advanced solutions such as Counting Tripwire and ANPR Regular Attendee. All are compatible with any **AnalyticsCapable** device.

### **AnalyticsCapable** TECHNOLOGY

All of our Analytics Components and Solutions can be added to any **AnalyticsCapable** device to provide seamless integration with other NetVu Connected products and allows users to expand installations with **AnalyticsCapable** technology.

**AnalyticsCapable** products can be upgraded with any of our Analytics Components or Solutions either during installation or after, allowing the customer to deploy analytics as they require without the need to replace any part of the installation.

Alarms raised by events can be viewed and recorded on the associated DVR, allowing the user to review both live and recorded footage as required. By taking full advantage of this seamless integration, users are able to link their analytics solution into their existing CCTV installation, connecting the alarms raised with alarm settings and relays controlled on the DVR.

See the 'Compatible Products' section for a full list of DVRs and Video Servers already enabled with **AnalyticsCapable** technology.

## AnalyticsCapable



## ANPR

Dedicated Micros Automatic Number Plate Recognition (ANPR) solution brings all the effective capabilities of larger traffic monitoring systems to within the affordable reach of even the smallest of private car park operators.

By utilising our unique NetVu Connected Technology and **AnalyticsCapable** devices Dedicated Micros is able to offer ANPR to existing CCTV owners and operators on a simple, building block level, letting customers extend existing CCTV systems with analytics technology without the costly need to re-design and re-install their network.

Seamless integration between software, camera and DVR/Video Server allows event orientated alarms (such as a blacklisted number plate attempting access to a car park) to be captured and viewed on a single platform, combining data and video footage into one image, and allowing the user to review both live and recorded video images as required.

Our ANPR solution is currently available in 3 variants:

### ANPR Monitoring

Our standard ANPR package – monitor and record licence plate details, with output stored in a database and associated with video via text-in-image. Images can be viewed live or in playback.

### ANPR Monitoring & Control

Enhanced version of our Monitoring Package with a white/black list that can trigger alarms or relays to alert an operator / guard or open a barrier.

### ANPR Regular Attendee

Our standard Monitoring Package enabled with a feature to allow users to specify a rolling window of time to monitor individual vehicles access to sites. Ideal for Waste and Recycling sites, the software can alert an operator or record an event if the number of visits of any given vehicle hits a threshold.



## ANPR Cameras

Dedicated Micros HyperSense Technology has been used in our range of Automatic Number Plate Recognition (ANPR) Optimised cameras designed to compliment our ANPR software.

Available in both analogue and IP models, Dedicated Micros unique HyperSense technology removes ambient light from the scene leaving only the objects that strongly reflect the IR light emitted by the integrated IR LED array to be displayed.

Ideal for deployment in a range of applications including Petrol Forecourt monitoring and Car Park Barrier control, the range includes dedicated ANPR cameras and combined ANPR / Overview cameras all in a single housing.

Our IP enabled models include preloaded ANPR software allowing analytics to be processed at the camera.

# HYPER-SENSE



Alongside our suite of ANPR solutions and associated cameras, Dedicated Micros has created a range of specific Analytics Components designed to work with our **AnalyticsCapable** DVRs in a range of applications including;

## Object Left/Removed

Object Left/Removed protects valuable assets by offering notification to operators should an item be moved from its set location, providing evidential quality images leading up to and after the moment the event occurred.

Even in areas experiencing significant movement around valuable assets Object Left/Removed can monitor items and protect against theft. The operator is able to select areas of the screen for the system to monitor and raise an alarm should conditions change.

### Typical applications for Object Left/Removed include:

- Art Galleries & Museums where valuable items can be monitored irrespective of movement around them
- Container yards and Car showrooms where large quantities of high value products are left for extended periods of time
- Protection for Plant machinery (excavators etc.) left overnight at building yards and construction sites

## Detection Tripwire

Our Detection Tripwire solution enables operators to quickly and easily set up virtual tripwires, either along existing fence lines or in areas where physical security is impossible or impractical (railway tracks, access routes). Alarms can be enabled in either (or both) directions across the tripwire.

Real-time identification of an intruder crossing a software-generated threshold can often mean the difference between pro-active and re-active action being taken.



### Typical applications include:

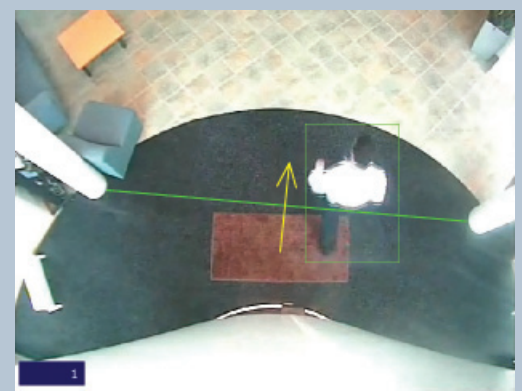
- Protection of sites with controlled access to critical areas (Airport Perimeters, Power Stations)
- Monitoring of traffic flow (illegal entrance to one way streets), can be coupled with ANPR
- Alert operators / staff should a restricted zone be entered without authorization (Unmanned Level Crossings)

## Counting Tripwire

This Analytics Solution, utilising our Virtual Tripwire solution and in-house developed counting algorithm, can be used to count people or vehicles entering or leaving an area. Predetermined thresholds can be used to raise alarms should crowd or vehicle densities reach specified levels.

### Typical applications include:

- Retail environments to monitor footfall and entry/exit rates
- Vehicle movements (Car parks)



Providing live detection rather than post-event analysis of recorded footage, our analytics solutions allow the operator to take immediate action to resolve an incident, saving time during critical moments and becoming more pro-active to the resolution of potential problems.

## Simple Configuration Tools

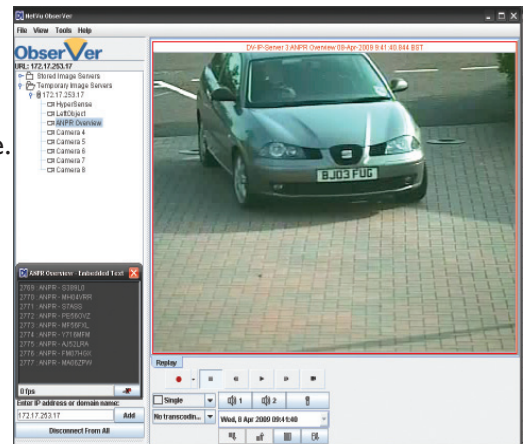
Configuration of all of our Analytics Components and Solutions can be easily accessed through the Video Servers/ NetVu Connected Devices' standard local and remote configuration pages (both share the same interface) allowing quick and easy adjustment to any settings, including the ability to mark monitoring areas for tripwire activation and Object Removed.

## On-screen Display

Our **AnalyticsCapable** products can display visual alerts to analytics triggered events on the local monitor as well as the remote user interface.

## Single User Interface

By integrating our analytics into NetVu ObserVer, Dedicated Micros provides the user with seamless control and viewing from a single platform. All products, including those containing **AnalyticsCapable** technology can be managed from this one interface. Users only require one viewing platform, reducing operator training and removing the need for the user to be familiar with more than one system.



## Bespoke Analytics Solutions

Bespoke Analytics Solutions can be tailored to suite your specific requirements. This allows unique deployments that can be built to address specific needs. Please contact a Dedicated Micros representative for further information.

## How to Buy

Dedicated Micros Analytics Components and Solutions are available on a per DVR licence. ANPR is available on a per camera licence. All **AnalyticsCapable** products require a software upgrade the first time analytics is added to the unit. This software is included in the license purchase. Mixed and multiple versions of our analytics solutions can be added to any **AnalyticsCapable** device. Please contact your Dedicated Micros representative for specific details on how to obtain any of our Analytics Components or to find out more about our licensing charges.

## Compatible Products

Dedicated Micros analytics solutions are available via a software upgrade on any **AnalyticsCapable** device including: DV-IP RT, DV-IP HD, DV-IP Server (Gen 3 models), SD Advanced, CamVu2000, CamVu HyperD, CamVu HyperSense, DV-IP Codec, HighVu Excel

Look for the **AnalyticsCapable** Logo for products compatible with our range of Analytics Components and Solutions.

# AnalyticsCapable

## Components

See component number and description below for further information.

Model Number	Description
DM/LS/ANZ-OL	Object Left/Removed, User Licence
DM/LS/ANZ-VT	Detection Tripwire, User Licence
DM/LS/ANZ-CT	Counting Tripwire, User Licence
DM/LS/ANP1-PM	ANPR - Monitoring, User Licence
DM/LS/ANP1-MC	ANPR - Monitoring & Control, User Licence
DM/LS/ANP1-RA	ANPR - Regular Attendee, User Licence
DM/LS/ANPIP1-PM	IP ANPR - Monitoring, User Licence
DM/LS/ANPIP1-MC	IP ANPR - Monitoring & Control, User Licence
DM/LS/ANPIP1-RA	IP ANPR - Regular Attendee, User Licence

The manufacturer reserves the right to change the specification without notice. It is recommended that all analytics solutions are used in conjunction with static CCTV cameras to ensure a maximum level of effectiveness. All trademarks are courtesy of registered owners. EcoSense is a trademark of AD Holdings plc. The DM logo is a trademark of Dedicated Microcomputers group Ltd. NetVu Connected is a trademark of the AD Group. © Copyright AD Group 2009