

The ONVIF compliant LYYN® real-time video solution for hybrid CCTV networks, providing enhanced visibility as well as analog to digital encoding



### Cost-effective upgrade

LYYN Griffin offers a very cost-effective upgrade solution. When replacing an analog CCTV system with IP video you need an encoder to maintain your investment in analog cameras. With LYYN Griffin you not only keep the camera, you enhance it to a new level of visibility capabilities, as well as encode the video to IP.

### Simple integration

The encoder part of LYYN Griffin is based on the Axis Q7401 Video Encoder. You integrate LYYN as you would any standard Axis product and control the video enhancement through a common interface. The interface is based on the standard Axis ACAP interface where LYYN Griffin controls are run as an integrated application. LYYN Griffin also supports VAPIX.

Available video enhancement settings	
Lynnification™	level window position window size
Video	saturation hue brightness contrast sharpness

Video encoder	
Video input	PAL 625-line 25 fps or NTSC 525-line 30 fps, autosensing of format
Video compression	H.264 (MPEG-4 Part 10/AVC) Motion JPEG
Resolutions	176x120 to 720x576
Frame rate	H.264: 30/25 (NTSC/PAL) fps in all resolutions Motion JPEG: 30/25 (NTSC/PAL) fps in all resolutions
Video streaming	Multi-stream H.264 and Motion JPEG: 3 simultaneous, individually configured streams in max. resolution at 30/25 fps; more streams if identical or limited in frame rate/resolution Controllable frame rate and bandwidth VBR/CBR H.264
Image settings	Compression, color, brightness, contrast Rotation: 90°, 180°, 270° Aspect ratio correction Mirroring of images Text and image overlay Privacy mask Enhanced deinterlace filter
Processor and memory	ARTPEC-3, 128 MB RAM, 128 MB Flash Local storage internal 8GB SD/SDHC memory card

Audio	
Audio streaming	Two way, full duplex
Audio compression	AAC-LC 8 kHz 32 kbit/s, 16 kHz 64 kbit/s G.711 PCM 8 kHz 64 kbit/s G.726 ADPCM 8 kHz 32 or 24 kbit/s
Audio input/output	External microphone input or line input Line level output

System integration	
Security	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication, user access log
Supported network protocols	IPv4/v6, HTTP, HTTPS, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
Application Programming Interface	Open API for software integration, including VAPIX® from Axis Communications available at <a href="http://www.axis.com">www.axis.com</a> Includes the ONVIF specification available at <a href="http://www.onvif.org">www.onvif.org</a> Support for AXIS Video Hosting System (AVHS) with One-Click Camera connection
Intelligent video	Video motion detection, active tampering alarm, audio detection
Alarm triggers	Intelligent video, external inputs, video loss, disk full
Alarm events	File upload via FTP, HTTP and email Notification via email, HTTP and TCP External output activation Local storage
Video buffer	64 MB pre- and post-alarm

General	
Casing	Metal casing. Standalone or wall mount
Dimensions and weight	Depth: 184 mm Width: 172 mm Height: 54 mm Weight: 950 g excluding power adapter
Power	8-20 V DC, max. 7.2 W or Power over Ethernet IEEE 802.3af Class 2/3
Connectors	Analog composite video BNC input, NTSC/PAL auto-sensing RJ-45 10BaseT/100BaseTX PoE DC terminal block: power in 8-20 V DC, max. 7.2 W or I/O terminal block for four configurable inputs/outputs 3.5 mm mic/line in, 3.5 mm line out
Operating conditions	0-50 °C (32-122 °F) Humidity 20-80% RH (non-condensing)

More information is available at [www.lyyn.com](http://www.lyyn.com)

# Want to see what **we** see?

## Enhancing Visibility in Real-time!



### The technology

It is called LYYN (V.E.T) Visibility Enhancement Technology. Visibility is enhanced in **real-time** in fog, dust, lowlight, snow, smoke, subsea, etc.

LYYN works on images and video from normal color cameras, but can also be used in processing saved material.

### Imagine the possibilities.

The pictures below are just still pictures that we have enhanced. The true power of LYYN is that this can be done in **real-time** in a live video stream, digital or analogue. This could have been the feed from a surveillance camera in a video security system. Air traffic control, for instance, would have a better view of the airfield.

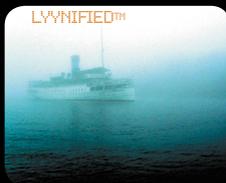
They might even see that a plane is going down the wrong way in the fog...

### It is not magic.

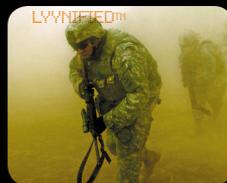
It is mathematics, based on the knowledge of how the human brain interpret information from the eyes.

### Low cost.

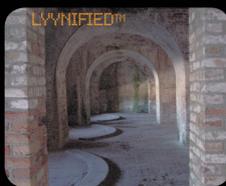
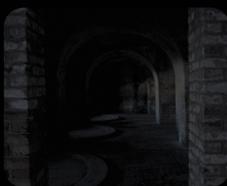
As LYYN can be integrated into existing systems as a "turbo charger", no expensive upgrade of complete systems is required.



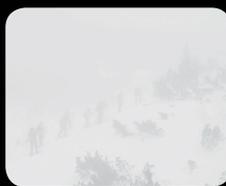
FOG & HAZE – LYYN gives you a clearer vision



DUST – LYYN gives you a clearer vision



LOW LIGHT – LYYN gives you a clearer vision



SNOW – LYYN gives you a clearer vision



SMOKE – LYYN gives you a clearer vision



SUB SEA – LYYN gives you a clearer vision

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 **LYYN**<sup>®</sup>  
we give you a clearer vision