NiceVision®
FAST alpha silver™

SMART VIDEO
PROVEN VALUE

ADVANCED IP PRODUCT SERIES FOR OPEN ARCHITECTURE SYSTEMS

The alpha silver portfolio is an advanced, IP-based MPEG-2 and MPEG-4 video and audio recording solution which includes both an eight channel encoder and a one channel codec. The solution offers an enhanced user experience, with superior video quality and a user-friendly GUI.

FAST alpha silver enables an open architecture, which is ideal for both distributed and centralized sites, leveraging IP networks. For additional flexibility and scalability, alpha silver can be easily customized by upgrading each channel to the desired video quality, recording speed and audio. The system handles up to 32 TB RAID storage capacity disks, enabling continuous recording for several months, and supports unicast and multicast video streams.
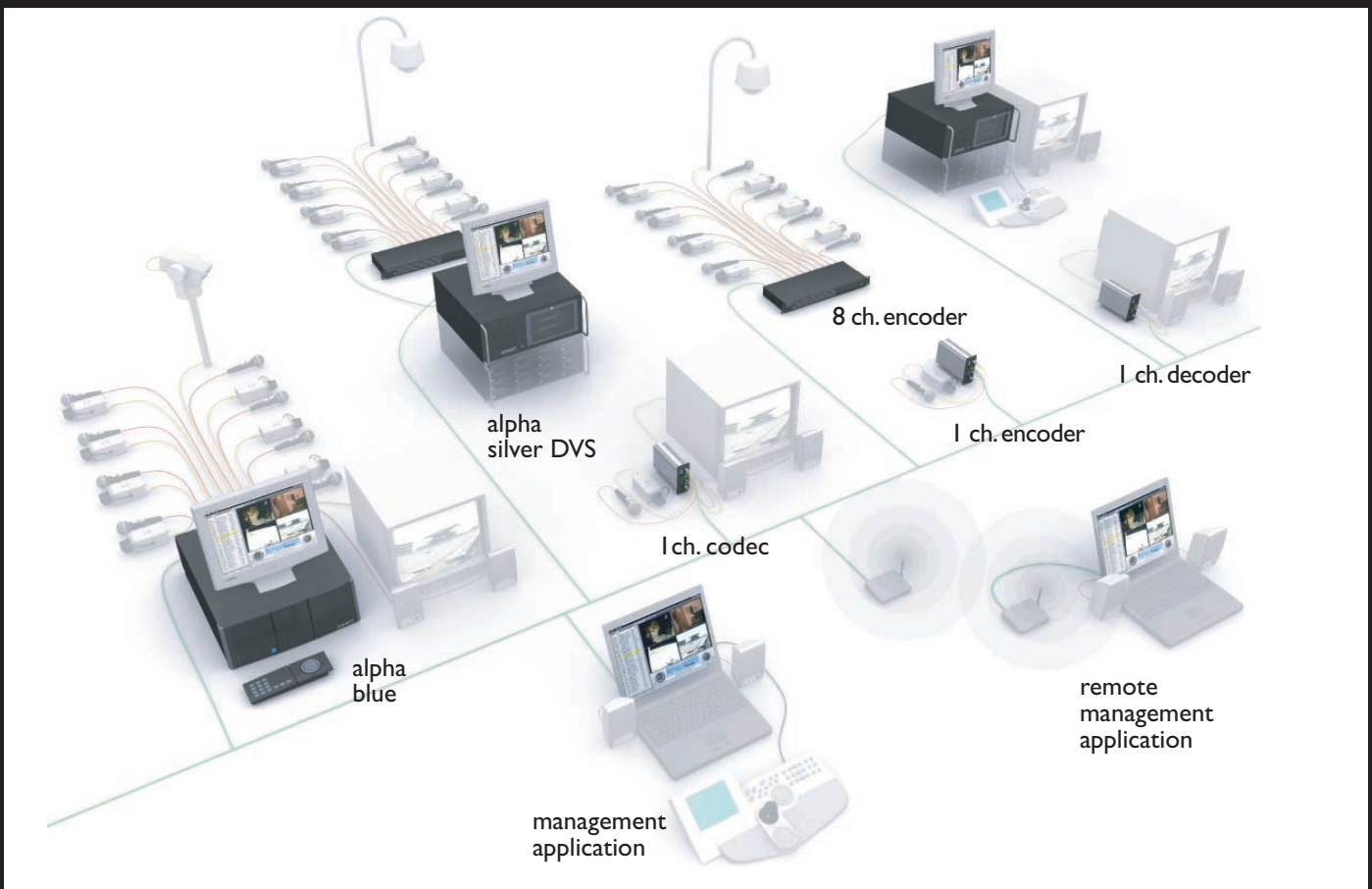
alpha silver is trusted by leading customers in numerous applications, including gaming, transportation, city surveillance, traffic monitoring and border control.

Insight from Interactions™

NICE

alpha silver PRODUCT HIGHLIGHTS

- Superior video quality - 4CIF video, 25/30 fps with audio, in real-time or time-lapse mode
- Supports MJPEG, MPEG-1, MPEG-2 and MPEG-4 compression standards
- Easy-to-use configuration wizard - change video parameters on the fly
- User-friendly GUI with advanced capabilities for enhanced user experience
- Exported data is encrypted and authenticated in Secure Data Containers
- Virtual Matrix capabilities
- Pentaplex operation (simultaneous real-time recording, playback, live viewing, archiving and PTZ-control)
- Analog video output
- Supports Alpha Frame Rate Reduction (AFRR) for storage savings in time-lapse mode
- Control of PTZ and dome cameras over software configurable serial interface
- Individual channel configuration according to requirements
- Upgrade configuration and firmware over IP using web-based interface
- Video Input Protection (VIP) automatically alerts operators to camera tampering and vandalism
- Powerful data search capabilities with event, time and motion-based search function
- Easy-to-use programming tool for user specific processes/alerts
- Advanced Video Motion Detection options

alpha silver PORTFOLIO

DVS - Digital Video Server

The compact Digital Video Server (DVS) is used with alpha® technology encoders and codecs and is available in 32 and 64 channel models. The solution offers an enhanced user experience with superior video quality and advanced GUI for effective surveillance in real-time.

For maximum flexibility and efficiency, external RAID storage devices can be added and third-party systems can be easily integrated using the Software Development Kit (SDK).

FAST alpha silver ENCODERS (ENC8) AND CODECS (EDC)

The flexibility of the FAST *alpha silver* allows seamless management of all video cameras with any mix of 8-channel encoders and 1-channel codecs, connected directly to the DVS or via the network – depending on the system layout and requirements.

The ENC 8-channel encoder has an unmatched scalability and flexibility for configurations of digital video recording and transmission systems. Eight simultaneous non-multiplexed MPEG-2 video streams with low latency and the option to upgrade each channel's video quality, resolution and audio make this device unique in its class.

The 1-channel codec converts analog video into IP which offers particular advantages for long-distance and highly decentralized networks. The unit is capable of encoding/decoding at variable bit-rates from 16 Kbps up to 15 Mbps and supports the most effective techniques available for maintaining high video quality while minimizing the required storage capacity.

SPECIFICATIONS	8 ch. encoder (ENC8)	1ch. codec (EDC1)	Digital Video Server (DVS) 3200/6400
Supported video compression	MJPEG, MPEG-2, MPEG-4		
Video encoding	MPEG-2	MPEG-2 / MPEG-4	–
Video decoding	-	MPEG-2 / MPEG-4	MPEG-2 / MPEG-4 / MJPEG / MPEG1
Video encoding/decoding format	PAL and NTSC		
Selectable data rate constant or variable	1 – 5 Mbps	128kbps - 15Mbps	–
Video encoding resolution MPEG-2/4 (PAL / NTSC)	CIF, 2CIF, 4CIF, 2/3 Frame	QCIF, CIF, 2CIF, 4CIF, 2/3 Frame	–
Video decoding resolution MPEG-2/4 (PAL / NTSC)	CIF, 2/3 Frame, 4CIF	QCIF, CIF, 2CIF, 4CIF, 2/3 Frame	QCIF, CIF, 2/3 Frame, 2CIF, 4CIF
Video inputs	NTSC 60 fields/s or PAL 50 fields/s	NTSC 60 fields/s or PAL 50 fields/s	–
Frame rate (per channel)	PAL = 25 fps; NTSC = 30 fps (for all channels)		
Audio encoding/decoding	Yes		
Audio sampling rate	48kHz		
Network protocols	TCP/IP, UDP, RTP, IGMP, ICMP, ARP, NTP and SNMP		
Hard Disk capacity	-	-	32 TB (for external storage)
Local configuration	Remote upgrades from DVS or remote access (VPK)		
Ethernet	2 x 10/100/1000 base-T, RJ 45 auto-sensing, full duplex, half duplex for video and audio streams		

INTERFACES	8 ch. encoder (ENC8)	1ch. codec (EDC1)	Digital Video Server (DVS) 3200/6400
Video input	8xCVBS with BNC	1xCVBS with BNC	–
Video output		1xCVBS with BNC	–
Audio input	8xstereo line/mic-in with 2 RCA cinch conn.Vi(RMS) relating to -1dB FS digital output; line-/mic-in, 0-24dB, 1V-128mV(RMS)	1xstereo line/mic- in with 2 female cinch conn./Vi(RMS) relating to -1dB FS digital output; Line-/Mic-in	–
Audio output		1x stereo line out with 2 females cinch conn. 1V(RMS)	1 x audio out
Trigger input	8xopto-coupled input low = 0-2 VDC, high = 6-28 VDC isolation voltage 500 VDC	1xopto-coupled input low = 0-2 VDC, high = 6-28 VDC; isolation voltage 500 VDC	–
Relay output	8xRelay output, max 30 W/1A/48 VDC/110 VAC	1xRelay output, max 30 W/1A/48 VDC/110 VAC	–
Parallel	–	–	1 x LTP D-Sub 25P
Serial	1xRS232/422/485, D-Sub 9 Pol male, software switchable	1xRS232/422/485, D-Sub 9 Pol male, software switchable	1 x RS-232 D-Sub 9P
USB	–	–	4 x USB 2.0
SCSI	–	–	1 x HD 68 (U-SCSI), 2 x VHDC (U 160 –SCSI)
Ethernet	1x 10/100 Base-T; auto sensing; half/full duplex;RJ45	1x 10/100 Base-T; auto sensing; half/full duplex;RJ45	2x 10/100/1000 Base-T; auto sensing; half/full duplex;RJ45
VGA			1 x VGA

HARDWARE

Input voltage (main unit)	12-24 VDC	12-24 VDC	
Input voltage (power supply)	85-264 VAC; 50/60 Hz	85-264 VAC; 50/60 Hz	85-264 VAC, 50/60 Hz
Power consumption	max 30W	5W – 10W	200W
Operating temperature	0 – 50°C	0 – 50°C	5° - 40°
Dimensions (main unit, WxHxD)	440 x 44 x 195 mm	49,7 x 128,4 x 172,9 mm	482 x 176 (4U)x 500 mm
Dimensions (rack)	--	480 x 132 x 195 mm (WxHxD)	
Approvals	CE, FCC Class FCC A, C-Tick, R-Mark, UL, NVLAB,VCCI, SMA, R-Mark, EN55022, EN55024, DIN EN 61000-4-2, DIN EN 61000-4-3, DIN EN 61000-4-4, DIN EN 61000-4-5, DIN EN 61000-4-6, EN 61000-4-8, DIN EN 61000-4-11, DIN EN 61000-3-2, DIN EN 61000-3-3, DIN EN 60950,	CE, FCC Class A, UL, NVLAB, VCCI, SMA, R-Mark, EN55103-1, EN55103-2, EN60950	CE, FCC class A, UL, NVLAB,VCCI, SMA, R-Mark, EN55022, EN55024, EN600950