360 avalon
from 360 vision technology ltd

World class manufacturing in the UK

Avalon H & Avalon H4

Avalon H, 8 channel DVR

BlackHawk Dome – Soffit mount

External VisionDome – Wall mount

Vision Keyboard for dome, DVR and matrix control

4, 8 and 16 channel, high performance Digital Video Recorders

D1 resolution recording	►	D1 (720x576) recording resolution at 100 frames per second (FPS), 2CIF at 200 FPS and CIF at 400 FPS
Independent recording	►	Individual recording resolution settings for each video channel.
Low recording file size	►	H.264 compression technology reduces image file sizes to 6KB at D1.
Internal Storage	►	Up to 4TB storage using Western Digital hard discs with 5 year warranty.
Flexible VGA resolution	►	VGA settings include 640x480, 800x600, 1024x768 and 1280x1024 pixels.
Camera scheduling	►	Motion detection, alarm actions, frame rate and camera definition are set up per camera to suit the time of day, weekends and scene activity levels.
"Watch dog"	►	Automatic reboot on system malfunction.
Remote control software	►	Network enabled remote viewing, control and playback using a PC. Optional professional central monitoring software is available for the SH model.
USB 2.0 ports	►	For down load, archiving and system configuration.
Multi-camera alarm action	►	Individual alarm activations can instigate multiple camera actions.
Embedded Linux OS	►	The Linux operating system is stored within the DVR memory so that system integrity and operation is not affected by HDD failure or upgrade.
Control versatility	►	USB mouse, facia buttons, IR remote control and keyboard control options.
Archive and download	►	Easy archive during playback with download option to CD or DVD.
Web server	►	Built-in web server with ActiveX download from the DVR.
Adaptable recording	►	Increased frame rate and pre/post event recording on incident detection.
Configuration	►	Intuitive import and export of system settings, quick set up and export log.
Multi-user secure access	►	Password protection and restricted access to channel, function and menus.
Multiscreen & spot monitor	►	Composite and VGA multiscreen and composite spot monitor (spot option on 8 & 16 ch units only).
Functionality	►	4 x audio in and one audio out, intelligent search option and motion detection maximise application effectiveness.
Intelligent searches	►	Calendar, time & date, event and motion search facilities.
Bi-directional audio	►	2 way duplex audio for remote audio communication.

AVALON SH OPTIONS AND FEATURES	Avalon H 4 ch AVH-4xxxx	Avalon H 8 ch AVH-8xxxx	Avalon H 16 ch AVH-16xxxx	Avalon H4 16 ch AVH4-16xxxx
Video Input	4 channel	8 channel	16 channel	16 channel
Operating system	Embedded Linux			
Quadruplex function	Simultaneous record, playback, network and archive			
Video Compression	Enhanced H.264			
Average file size	325x288 – 0.8 ~ 2.6KB/frame, 720x576 – 3.2 ~ 5.9KB/frame			
Max. Rec speed: 352x288	200PPS (full FPS)			400PPS (full FPS)
720x288	100PPS (full FPS)			200PPS (full FPS)
720x576	50PPS (full FPS)			100PPS (full FPS)
Live display speed	400PPS at 720x576 pixel resolution			
Live display and playback	1, 4, PIP	1, 4, 9, PIP	1, 4, 9, 16, PIP	1, 4, 9, 16, PIP
Video output	1 x Composite, 1 x S-Video, 1 x Spot, 1 x VGA			
Alarm in/out	4/4	8/4	16/4	16/4
Audio in/out	4/1			
Loop out	4 channel	8 channel	16 channel (D-sub)	16 channel
PTZ & CCTV kbd interface	RS485			
System Control	USB mouse, facia buttons, IR remote controller, keyboard, remote s/w, web viewer			
Power	12VDC @ 5A, 50~60Hz	12VDC @ 7A, 50~60Hz		
Dimensions/Weight	420x88x390mm/6Kg			
Operating temperature	5°C to 40°C/20% to 80% RH			
Certification & Warranty	FCC, CE, MIC, WEEE, ROHS – 2 year warranty			

GENERAL	
Quick setup	East set up for general resolution, recording speed, mode & time period
Playback	x1, x2, x4, x8, x16, x32 speed, original resolution ~ full screen resolution
Search	Calendar (graphic time bar)/date & time / first / last / system log / event log / multichannel playback
SYSTEM	
Watch Dog	Built-in "watch dog" for automatic system reboot
Time Synchronisation	Automatic time synchronisation to NTP server
Firmware Upgrade	Via DVD, CD, FTP, USB pen drive (single file upgrade)
VGA Display	640x480, 800x600, 1024x768, 1280x1024 pixels
Spot monitor	Sequencing channel selection full screen only
No. log in user registration	Maximum 16 users
User authority	Each user has different "function", "menu setting per function", " playback and live per channel"
Health Check	No HDD, SMART alert
Config. export and import	Configuration copy and paste to another DVR using USB/DVD/CD
HDD management	HDD ID, model name, capacity, free space, temperature, over writing & format
DEVICE	
Motion area setting	12x12 grid / 1~10 sensitivity
PTZ operation	Virtual joystick by mouse, 360 keyboard
Recording modes	Continuous, motion, sensor, Continuous/Motion, Continuous/Sensor, Motion/Sensor, Emergency
Intensive recording	Automatic maximum recording frame rate upon motion/sensor detection
Pre/Post alarm	Max 5 sec/Max 30 sec
Extra alarm	SMART, Video loss, Recording failure, HDD full alerts
RECORD	
Resolution/Quality setting	CIF, 2CIF & D1/Low, Standard, High & Highest individual settings per camera
Auto deleting	Automatic data deleting for privacy protection
Recording Schedule	Per hour, day, holiday setup, recording modes, channel & alerts/alarms
NETWORK	
Network support type	LAN (10/100Mbps), DHCP
Email notification	Motion, sensor, video loss, power setup, login, login fail, disk full, SMART
ARCHIVE	
Archive device	DVD/CD/USB
Quick backup	Press backup during playback
REMOTE S/W (NDMS)	
Multi-user authentication	Programmable multi-layer user authentication, synchronised with DVR users authority level
Screen size flexibility	Flexible – screen layouts std & configurable
Drag & Drop	Mouse drag & drop for camera & DVR selection
System configuration	Full configuration set up via network
Local back up	Archiving as video (AVI) or stills (JPEG)

360AVH120511v1

Tel: +44 (0) 870 903 360 1, Fax: +44 (0) 870 903 360 2, info@360visiontechnology.com

360 Vision technology Ltd, Unit 7 Seymour Court, Manor Park, Runcorn, Cheshire, WA7 1SY, UK