

	DVR4L1	DVR4MQAEE	DVR4L2	DVR4L3	DVR4MQAE
Video system	NTSC/PAL (switchable)	NTSC/PAL (switchable)	NTSC/PAL (switchable)	NTSC/PAL (switchable)	NTSC/PAL (switchable)
Video compression format					
Frame	MPEG4	MJPEG	H.264	H.264	MPEG4
CIF	MPEG4	MPEG4	H.264	H.264	MPEG4
Video input	4 Channels	4 Channels	4 Channels	4 Channels	4 Channels
Video Loop Out	0 Channels	4 Channels	0 Channels	0 Channels	4 Channels
Max Recording rate					
Frame					
NTSC	N/A	720 x 480 / 30IPS	N/A	704 x 480 / 30IPS	720 x 480 / 30IPS
PAL	N/A	720 x 576 / 25IPS	N/A	704 x 576 / 25IPS	720 x 576 / 25IPS
CIF					
NTSC	360 x 240 / 120IPS simplex, 40IPS duplex	352 x 240 / 120IPS	352 x 240 / 120IPS	352 x 240 / 120IPS	352 x 240 / 120IPS
PAL	360 x 288 / 100IPS simplex, 32 IPS duplex	352 x 288 / 100IPS	352 x 288 / 100IPS	352 x 288 / 100IPS	352 x 288 / 100IPS
Adjustable Recording speed					
Frame					
NTSC	N/A	30/15/7/3 IPS	N/A	30/15/7/3 IPS	30/15/7/3 IPS
PAL	N/A	25/12/6/3 IPS	N/A	25/12/6/3 IPS	25/12/6/3 IPS
CIF					
NTSC	simplex mode: 120/60/30 IPS, duplex mode: 40/28/20 IPS	120/60/30/15 IPS		120/60/30/15 IPS	120/60/30/15 IPS
PAL	simplex mode: 100/50/25 IPS, duplex mode: 32/24/16 IPS	100/50/25/12 IPS		100/50/25/12 IPS	100/50/25/12 IPS
Image Quality Setting	Best, High, Normal, Basic	Best, High, Normal, Basic	Super Best, Best, High and Normal	Super Best, Best, High and Normal	Best, High, Normal, Basic
Hard Disk Storage	IDE type, ATA66, supported HDD*1	IDE type, ATA66, supported HDD*1	SATA type, supported HDD*1	SATA type, supported HDD*1	IDE type, ATA66, supported HDD*1
HDD Quick Cleaning	Support each HDD capacity over 750GB	Support each HDD capacity over 750GB	Support each HDD capacity to 1TB	Support each HDD capacity to 1TB	Support each HDD capacity over 750GB
Recording Mode	Manual/Timer/Motion	Manual/Timer/motion/Alarm	Manual/Timer/motion	Manual/Timer/motion/remote	Manual/Timer/Motion/Alarm
Watermark	no	yes			yes
Refresh rate					
NTSC	120IPS	120IPS	120IPS	120IPS	120IPS
PAL	100IPS	100IPS	100IPS	100IPS	100IPS
RETR*	no	no	no	no	no
Audio I/O	1 x Input, 1 x Output (Mono)	1 x Input, 1 x Output (mono)	no	1 x Input, 1 x Output (Mono)	4 x Input, 2 x Output (Mono)
Multiplex operation	live display/record/playback/backuper/network	live display/record/playback/backuper/network	live display/record/playback/backuper	Live display/record/playback/backuper/network operations	live display/record/playback/backuper/network
Motion Detection Area	16 x 12 grid per camera	16 x 12 grid per camera	3 pre-defined detection areas selectable	3 pre-defined detection areas selectable	16 x 12 grid per camera
Motion Detection Sensitivity	4 adj variables with precise calculation	4 adj variables with precise calculation	One parameter with four sensitivity levels	One parameter with four sensitivity levels	4 adj variables with precise calculation
	for motion detection	for motion detection	(High / Normal / Low / Off)	(High / Normal / Low / Off)	for motion detection
Pre-Alarm Recording	Yes (2Mb)	Yes (8Mb)	Yes (8Mb)	Yes (8Mb)	Yes (8Mb)
Backup device	USB flash disk backup & network remote backup	Network remote backup	USB 2.0 flash drive	USB 2.0 flash drive/network	USB flash disk & network remote
Web transmitting/Compr Form	MPEG4	Motion JPEG	N/A	H-264	Motion JPEG
Ethernet	10/100 Base-T	10/100 Base-T	N/A	10/100 Base-T	10/100 Base-T
Mobile Surveillance	N/A	Access the system via mobile phone (require J2ME, MIDP2.0)	N/A	Access the system via mobile phone (require J2ME, MIDP2.0)	Access the system via mobile phone (require J2ME, MIDP2.0)
Web interface	Supported licensed software AP and IP browser	Supported licensed software AP and IP browser	N/A	Supported licensed software AP and IP browser	Supported licensed software AP and IP browser
Remote Alarm notification	E-mail images	E-mail images	N/A	E-mail images	E-mail images
	upload images to FTP sites	upload images to FTP sites		upload images to FTP sites	upload images to FTP sites
Network connection	Support TCP/IP, PPPoE, DHCP, DDNS	Support TCP/IP, PPPoE, DHCP, DDNS	N/A	Support TCP/IP, PPPoE, DHCP, DDNS	Support TCP/IP, PPPoE, DHCP, DDNS
USB interface	1 x on rear panel	None	1 x on front panel	1 x on front panel	1 x on front panel
Remote control	no remote control	no remote control	no remote control	no remote control	Remote control DVR and PTZ via IR transm. (DVRRC)
PTZ control*	N/A	Support AVTECH / PELCO-D protocol RS485	N/A	N/A	Support AVTECH / PELCO-D protocol RS485
Dwell Time	Programmable	Programmable			Programmable
Alarm I/O	N/A	4 inputs, 1 output	N/A	N/A	4 inputs, 1 output
Digital zoom	2 x digital zoom	2 x digital zoom	2 x digital zoom	2 x digital zoom	2 x digital zoom
Key lock	No	No	Yes	Yes	Yes
Video Loss detection	Yes	Yes	Yes	Yes	Yes
Camera Title	Support up to 6 letters	Support up to 6 letters	Support up to 6 letters	Support up to 6 letters	Support up to 6 letters
Video Adjustable	Hue/color/contrast/brightness	Hue/color/contrast/brightness	Hue/color/contrast/brightness	Hue/color/contrast/brightness	Hue/color/contrast/brightness
Date display format	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off
Daylight saving	yes	yes	yes	yes	yes
Power source	DC 19V	DC 19V	DC 19V	DC 19V	DC 19V
Power consumption	<42W	<42W	<42W	<42W	<42W
Operating temperature	10°C - 40°C	10°C - 40°C	10°C - 40°C	10°C - 40°C	10°C - 40°C
Dimensions	343 x 59 x 223mm	345 x 68.3 x 225mm	343 x 59 x 223mm	343 x 59 x 223mm	343 x 59 x 223mm
System recovery	automatic after power reconnected	automatic after power reconnected	automatic after power reconnected	automatic after power reconnected	automatic after power reconnected
HD format	No	D/V format (VASMONE can convert D/V to VGA)	No	No	No
DVD writer	No	No	No	No	No

RETR = Remote Event Trigger Recording
PTZ = Pan Tilt Zoom

	DVR4H	DVR4DH	3G SYSTEM DVR	DVR8N2	DVR16N
Video system	NTSC/PAL (auto detection)	NTSC/PAL (auto detection)	NTSC/PAL (auto detection)	NTSC/PAL (switchable)	NTSC/PAL (switchable)
Video compression format					
Frame	H.264	H.264	MPEG4	MPEG4	MPEG4
CIF	H.264	H.264	MPEG4	MPEG4	MPEG4
Video input	4 Channels	4 Channels	4 Channels	8 Channels	16 Channels
Video Loop Out	4 Channels	4 Channels	4 Channels	8 Channels	0 Channels
Max Recording rate					
Frame					
NTSC	720 x 480 / 30IPS	720 x 480 / 30IPS	720 x 480 / 30IPS	720 x 480 / 60IPS	720 x 480 / 30IPS
PAL	720 x 576 / 25IPS	720 x 576 / 25IPS	720 x 576 / 25IPS	720 x 576 / 50IPS	720 x 576 / 25IPS
CIF					
NTSC	352 x 240 / 120IPS	352 x 240 / 120IPS	352 x 240 / 120IPS	352 x 240 / 240IPS	352 x 240 / 120 IPS
PAL	352 x 288 / 100IPS	352 x 288 / 100IPS	352 x 288 / 100IPS	352 x 288 / 200IPS	352 x 288 / 100 IPS
Adjustable Recording speed					
Frame					
NTSC	30/15/7/3 IPS	30/15/7/3 IPS	30/15/7/3 IPS	60/30/15/7 IPS	30/15/7/3 IPS
PAL	25/12/6/3 IPS	25/12/6/3 IPS	25/12/6/3 IPS	50/25/12/6 IPS	25/12/6/3 IPS
CIF					
NTSC	120/60/30/15 IPS	120/60/30/15 IPS	120/60/30/15 IPS	240/120/60/30 IPS	120/60/30/15 IPS
PAL	100/50/25/12 IPS	100/50/25/12 IPS	100/50/25/12 IPS	200/100/50/25 IPS	100/50/25/12 IPS
Image Quality Setting	Super Best, Best, High and Normal	Super Best, Best, High and Normal	Best, High, Normal, Basic	Best, High, Normal, Basic	Best, High, Normal, Basic
Hard Disk Storage	SATA type supported HDD*2	SATA type supported HDD*2	SATA type supported HDD*2	IDE type, ATA66, supported HDD*3	IDE type, ATA66, supported HDD*2
HDD Quick Cleaning	Support each HDD capacity to 1TB 1TB under 2 seconds	Support each HDD capacity to 1TB 1TB under 2 seconds	Support each HDD capacity over 1TB 1TB under 2 seconds	Support each HDD capacity over 750GB 750GB under 2 seconds	Support each HDD capacity over 750GB 750GB under 2 seconds
Recording Mode	Manual/Timer/motion/Alarm/Remote	Manual/Timer/motion/Alarm/Remote	Manual/Timer/motion/Alarm/Remote	Manual/Timer/Motion/Alarm/remote	Manual/Timer/Motion/Alarm
Watermark	yes	yes	yes	yes	yes
Refresh rate					
NTSC	120IPS	120IPS	120IPS	240IPS	480IPS
PAL	100IPS	100IPS	100IPS	200IPS	400IPS
RETR*	yes	yes	yes	yes	no
Audio I/O	4 x Input, 1 x Output (Mono)	4 x Input, 1 x Output (Mono)	2 x Input, 2 x Output (Mono)	4 x Input, 2 x output (mono)	4 x Input, 1 x output (mono)
Multiplex operation	live display/record/playback/backup/network	live display/record/playback/backup/network	live display/record/playback/backup/network	live display/record/playback/backup/network	live display/record/playback/backup/network
Motion Detection Area	16 x 12 grid per camera	16 x 12 grid per camera	16 x 12 grid per camera	16 x 12 grid per camera	16 x 12 grid per camera
Motion Detection Sensitivity	4 adj variables with precise calculation for motion detection	4 adj variables with precise calculation for motion detection	4 adj variables with precise calculation for motion detection	4 adj variables with precise calculation for motion detection	4 adj variables with precise calculation for motion detection
Pre-Alarm Recording	Yes (8Mb)	Yes (8Mb)	Yes (8Mb)	Yes (8Mb)	Yes (8Mb)
Backup device	USB flash disk backup & network remote backup	USB flash disk backup & network remote backup	USB flash disk and network remote	USB flash drive, network remote? CD-RW & DVD-RW	USB flash disc & network remote
Web transmitting/Compr Form	H.264	H.264	MPEG4	Motion JPEG	MPEG4
Ethernet	10/100 Base-T	10/100 Base-T	10/100 Base-T	10/100 Base-T	10/100 Base-T
Mobile Surveillance	Access the system via mobile phone (require J2ME, MIDP2.0)	Access the system via mobile phone (require J2ME, MIDP2.0)	3G active call out and remote access via mobile phone (require J2ME, MIDP2.0)	Access the system via mobile phone (require J2ME, MIDP2.0)	Access the system via mobile phone (require J2ME, MIDP2.0)
Web interface	Supported licensed software AP / IE and Firefox browser (max. 20 users)	Supported licensed software AP / IE and Firefox browser (max. 20 users)	Supported licensed software AP / IE and Firefox browser (max. 20 users)	Supported licensed software AP and IP browser	Supported licensed software AP and IP browser
Remote Alarm notification	E-mail images upload images to FTP sites	E-mail images upload images to FTP sites	E-mail images upload images to FTP sites	E-mail images upload images to FTP sites	E-mail images upload images to FTP sites
Network connection	Support TCP/IP, PPPoE, DHCP, DDNS	Support TCP/IP, PPPoE, DHCP, DDNS	Support TCP/IP, PPPoE, DHCP, DDNS	Support TCP/IP, PPPoE, DHCP, DDNS	Support TCP/IP, PPPoE, DHCP, DDNS
USB interface	1 x on front panel	1 x on front panel	1 x on front panel	Front panel x 1, rear panel x 1	1 x on front panel
Remote control	yes	yes	yes	Remote control DVR and PTZ via IR transm. (DVRRC)	Remote control DVR (DVRRC2 (incl.))
PTZ control*	Support AVTECH / PELCO-D protocol RS485	PELCO-D / DCC control RS485 and DCC	PELCO-D / DCC control RS485 and DCC	Support AVTECH / PELCO-D protocol RS485	N/A
Dwell Time	Programmable	Programmable	Programmable	Programmable	Programmable
Alarm I/O	4 inputs, 1 output	4 inputs, 1 output	4 inputs, 1 output	8 inputs, 1 output	16 inputs, 1 output
Digital zoom	2 x digital zoom	2 x digital zoom	2 x digital zoom	2 x digital zoom	2 x digital zoom
Key lock	yes (password protection)	yes (password protection)	yes (password protection)	yes (password protection)	yes (password protection)
Video Loss detection	Yes	Yes	Yes	Yes	Yes
Camera Title	Support up to 6 letters	Support up to 6 letters	Support up to 6 letters	Support up to 6 letters	Support up to 6 letters
Video Adjustable	Hue/color/contrast/brightness	Hue/color/contrast/brightness	Hue/color/contrast/brightness	Hue/color/contrast/brightness	Hue/color/contrast/brightness
Date display format	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off	YY/MM/DD, DD/MM/YY, MM/DD/YY and off
Daylight saving	yes	yes	yes	yes	Yes
Power source	DC 19V	DC 19V	DC 19V	DC 19V	DC 19V
Power consumption	<64W	<42W	<64W	<64W	<64W
Operating temperature	10°C - 40°C	10°C - 40°C	10°C - 40°C	10°C - 40°C	10°C - 40°C
Dimensions	375 x 61 x 281mm	375 x 61 x 281mm	375 x 61 x 281mm	432 x 90 x 326mm	430 x 65 x 300mm
System recovery	automatic after power reconnected	automatic after power reconnected	automatic after power reconnected	automatic after power reconnected	automatic after power reconnected
HD format	VGA	VGA	D/V format (VASM0N5 can convert D/V to VGA)	D/V format (VASM0N5 can convert D/V to VGA)	No
DVD writer	No	No	No	Yes	No
RETR = Remote Event Trigger Recording					
PTZ = Pan Tilt Zoom					