






DVTEL's Encoder and Decoder Family Guide

DVTEL Video Encoders are divided into three (3) product families — 7500, 7600 and 8600. In addition to the Video Encoders, monitor Decoders are available for converting video back to an analog CCTV (NTSC/PAL) video signal to be viewed on a traditional CCTV monitor or connected to a VCR or DVR. All video encoders and decoders are supported by the award winning Latitude Network Video Management System (NVMS)[™] and the Adaptive Visualization Technology (AVT)[™] SceneTracker[™]. The following table provides general information on each of the Encoders and Decoders.

Product	7600 Series of MPEG-4 Encoders			8600 VMD	7500 Series of Monitor Decoders	
						
Part Number	DVT-7601(P)E/EA	DVT-7608E/EA/U	DVT-7612E/EA/U	DVT-8601E/EA	DVT-7501D/DA	DVT-7504D/DA
Video Compression	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4
Max Frame Rate per Input	30/25	30/25	30/25	30/25	30/25	30/25
Max Resolution per Input	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576
Max Resolution at Max Frame Rate	704x480/ 704x576	704x480/ 704x576	704x240/ 704x288	704x480/ 704x576	Same as Input	Same as Input
Dual Stream Support	Yes	Yes	Yes	Yes	Yes	Yes
Pan Tilt Zoom Controls	Yes	Yes	Yes	Yes	Yes	Yes
Single Set of Bidirectional Audio	EA Version	EA Version	EA Version	EA Version	DA Version	DA Version
12 Unidirectional Audio Inputs	N/A	EU Version	EU Version	N/A	N/A	N/A
Audio Compression	64K PCM	EA - 64K PCM EU - 8/16/24 KHz	EA - 64K PCM EU - 8/16/24 KHz	64K PCM	64K PCM	64K PCM
Bandwidth Range	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb
Network Connectivity	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT
Network Protocol	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP
Serial Communication	RS232/422/485	RS232/422/485	RS232/422/485	RS422/485	RS232/422/485	RS232/422/485
Alarm Interface	3 in / 1 out	8 in / 3 out	8 in / 3 out	2 in / 1 out	3 in / 1 out	3 in / 1 out
Management	Latitude SW	Latitude SW	Latitude SW	Latitude SW	Latitude SW	Latitude SW
Power Requirement	12VDC	12VDC	12VDC	24VAC	12VDC	12VDC
Power over Ethernet (POE)	P-version 802.3af	High power POE injector/splitter	High power POE injector/splitter	N/A	Injector/Splitter	High power POE injector/splitter

For more information please view product datasheets @ www.dvтел.com or contact your DVTEL representative

*These numbers are for a single stream of MPEG-4 video (recording or viewing). These numbers were calculated using a single stream of video (recorded as live) set at the DVTEL default camera settings. Please note that not all equipment supported by Latitude NVMS software provides an MPEG-4 video stream. Please contact your DVTEL representative for complete bandwidth support.

The information provided herein is for guidance only and to set performance expectations for each Encoder type. Your actual experience may vary depending on variables beyond our control such as (1) the camera quality, (2) camera's operation with edge enhancements, (3) lighting, and (4) the amount of motion within the field of view.

Latitude Video Software Solution



DVTEL's Latitude NVMS gives you all the tools you need to view, capture, record, analyze, report and store high quality video and audio - anytime, anywhere. The software is available in three (3) versions - Classic, Elite and Enterprise.

Latitude NVMS Classic - Entry-level system which supports a total of 50 camera/monitor connections

Latitude NVMS Elite - Full featured system which supports of 600 camera and monitor connections. Each Media Archive Server supports up to 100 camera/monitor connections, recording up to 30fps NTSC/ 25fps PAL at 4CIF video resolution on all channels

Latitude NVMS Enterprise - Full featured system which supports an unlimited number of camera and monitor connections. Each Media Archive Server supports up to 100 camera/monitor connections, recording up to 30fps NTSC/ 25fps PAL at 4CIF video resolution on all channels

Latitude NVMS Software Options

Latitude software packages	
Latitude Classic	LAT50-C-DMC
Latitude Elite	LAT50-EL-DMC
Latitude Enterprise	LAT50-NP-DMC
Latitude CCTV Keyboard	DVT-KBD

Latitude CCTV Keyboard



DVTEL CCTV Keyboard - Latitude NVMS, SceneTracker viewing applications, and decoder controls are also available using DVTEL's CCTV Keyboard

Recording and Bandwidth Requirements*

Resolution	FPS	1 FPS	3.75/3.12 FPS	7.5/6.25 FPS	15/12.5 FPS	30/25 FPS
1CIF						
NTSC-352x240 PAL-352x288		48Kbs	128Kbs	256Kbs	512Kbs	1024Kbs
2CIF						
NTSC-704x240 PAL-704x288		108Kbs	192Kbs	512Kbs	1024Kbs	2048Kbs
4CIF						
NTSC-704x480 PAL-704x576		192Kbs	512Kbs	960Kbs	2048Kbs	4032Kbs



Altitude™ IP Camera Family Guide

Product	Vandal Resistant IP Mini-Dome		Fixed IP Cameras		PTZ Dome IP Camera			
			 <small>Lens is not included</small>	 <small>Lens is not included</small>				
Part Number	DVT-9440Dxx	DVT-9440Wxx	DVT-9540SW	DVT-9540DW	DVT-9840Exxx	DVT-9840Sxxx	DVT-9840Dxxx	DVT-9840Xxxx
Type	Vandal Fixed Dome	Vandal Fixed Dome	Industrial Box	Industrial Box	Industrial Dome	Industrial Dome	Industrial Dome	Industrial Dome
Video Compression	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4	MPEG-4
Max Frame Rate per Input	30/25	30/25	30/25	30/25	30/25	30/25	30/25	30/25
Max Resolution per Input	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576
Max Resolution at Max FPS	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576	704x480/ 704x576
Dual Stream Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Support	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Audio Compression	64K PCM	64K PCM	N/A	N/A	64K PCM	64K PCM	64K PCM	64K PCM
Bandwidth Range	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb	64Kb - 4Mb
Image Sensor	1/3" CCD Sony HQ-1	1/3" Pixim CMOS	1/3" Pixim CMOS	1/3" Pixim CMOS	1/4" SONY EXview HAD	1/4" Hitachi G5/G6 DSP	1/4" Hitachi G5/G6 DSP	1/4" Hitachi G5/G6 DSP
Zoom Optical / Digital	2x (manual)	2x / 2x (manual)	N/A	N/A	18x / 12x	22x / 12x	23x / 12x	26x / 12x
Lens Type (DC auto-iris, varifocal)	2.6mm - 6.0mm 3.8mm - 9.5mm 9.0mm - 22.0mm	2.6mm - 6.0mm 3.8mm - 9.5mm 9.0mm - 22.0mm	C/CS mount	C/CS mount	4.1mm - 73.8mm	4.0mm - 88.0mm	3.6mm - 82.8mm	3.5mm - 91.0mm
Light Sensitivity	0.65 lux	0.8 lux	0.8 lux	0.8 lux	0.7 lux	0.1 lux	0.1 lux Day 0.01 Night	0.07 lux Day 0.01 Lux Night
Day/Night	Digital	Digital	No	Yes	No	No	Yes	Yes
WDR	No	Yes	Yes	Yes	No	No	Yes	Yes
Privacy Windows	No	No	No	No	No	No	8	8
Analog Video Output	Yes	Yes	Yes	Yes	No	No	No	No
Network Connectivity	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT	10/100BaseT
Network Protocol	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP	RTP/IP; UDP/IP; TCP/IP; IGMP
Serial Communication	RS-232/422/485	RS-232/422/485	No	No	No	No	No	No
Alarm Interface	2 In / 1 Out	2 In / 1 Out	2 In / 1 Out	2 In / 1 Out	2 In / 1 Out	2 In / 1 Out	2 In / 1 Out	2 In / 1 Out
Management	Latitude SW / WEB	Latitude SW / WEB	Latitude SW / WEB	Latitude SW / WEB	Latitude SW / WEB	Latitude SW / WEB	Latitude SW / WEB	Latitude SW / WEB
Power Requirement	12VDC	12VDC	802.3af or 12VDC	802.3af or 12VDC	24VAC or 12VDC	24VAC or 12VDC	24VAC or 12VDC	24VAC or 12VDC
Power over Ethernet (POE)	Injector/splitter	Injector/splitter	802.3af	802.3af	High power POE injector/ splitter indoor version 12VDC	High power POE injector/ splitter indoor version 12VDC	High power POE injector/ splitter indoor version 12VDC	High power POE injector/ splitter indoor version 12VDC
Mount	Surface; Recessed; Corner	Surface; Recessed; Corner	Top/Bottom	Top/Bottom	Ceiling; Bracket	Ceiling; Bracket	Ceiling; Bracket	Ceiling; Bracket

For more information please view each product's datasheet @ www.dvtel.com or contact your DVTEL representative



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