

DÉSA^{XL} Digital Video Recorders



Security Systems



- Windows[®] XP Professional
- Passive Looping Video
- Average File Size 3–6 KB
- 120, 240 FPS Frame Rate
- Remote Multiserver Access
- Limited Remote Administration
- Local & Remote PTZ Control
- Local & Remote Intelligent Search Engine
- E-mail Notification
- Event Logging by User
- Web Browser Viewer
- Local Smart Motion Search
- AntiVirus Software Supported

The Bosch DÉSA^{XL} is a Windows XP Professional PC-based digital recorder that produces an amazing 120-240 frames per second, with average file sizes of 3–6 KB per image. This unit has 8 or 16 video inputs with independently adjustable frame rate settings. The DÉSA^{XL} features an alarm input and an auxiliary output for each video input³.

When an alarm is triggered, e-mail or remote notification is sent to an administrator, providing remote event notification. On activation of alarms, the DÉSA^{XL} may be configured to execute pre-positions from multiple AutoDome cameras. The DÉSA^{XL} has pre-alarm recording capability, allowing video capture *prior* to an alarm event. There are also five configurable motion detection zones per camera.

Both live and recorded video are accessible via the remote viewing software (included). Additionally, the remote software provides PTZ control and limited system configuration, supporting up to 16 DÉSA^{XL} units. Live viewing of cameras is available via a standard web browser or pocket PC software. Video is easily offloaded and distributed as proprietary or AVI files using a standard DVD/CD writer.

Local PTZ control is accomplished directly via the user interface, providing complete control over the Bosch AutoDome Series¹. Other manufacturers' units are also supported².

Secure operation is achieved via fully definable users, assigned to grant or deny access to system administration functions, recorded video access, PTZ control, and live viewing of cameras. The advanced scheduling feature of DÉSA^{XL} allows customization of recording parameters based on time, day of the week, motion, and alarm input. The DÉSA^{XL} is easily configured to record based on your unique needs!

The LTC 8016/90 Bilinx Data Interface Unit accepts a biphasic output from the DÉSA^{XL} to allow control and configuration of Bosch Dinion and AutoDome cameras using only the video cable¹.

Single channel audio recording is available by connecting an audio source to the unit. The DÉSA^{XL} also supports two way audio, for listening in and talking to the site using the remote viewing software.

NOTES: ¹Bosch LTC 8786/60-RS-232 to Biphasic converter required

²Additional hardware may be required

³Only refers to 16-channel

Specifications

Model	DR2xxxxxx
Composite Output	Full Screen/Sequencing
Display (Max) FPS	120 or 240
Video Input-Cameras	1 to 8 or 1 to 16
Digital Audio Recording	1-channel
External Alarm	4/4 or 16/16 (Input/Auxiliary Output)
SVGA Display	1024 x 768
Standard HDD	250, 500, 750, 1000 GB
Memory	1 GB
Recording Resolution	320 x 240 / 120 FPS or 240 FPS 640 x 480 / 120 FPS (maximum)

Average Record Days Disk format (GB) / Recording Speed (FPS)

DR2161xx	Total FPS	Continuous Recording	15% Motion Recording
250 GB	16	60 days	290 days
250 GB	112	8 days	41 days
1000 GB	16	250 days	1200 days
1000 GB	112	35 days	171 days

NOTE: The above record calculations are examples based on continuous or motion at 15% recording, with 320 x 240 resolution, and an average of 3 KB file size at normal quality setting.

4U Rack-mount Chassis

Dimensions	W x D x H: 17 1/4 in. x 21 in. x 7 in.
Weight	25-55 lb based on model

Hard Drive Capacity

8-channel	250-500 GB
16-channel	250-1000 GB

Camera Inputs 8 or 16 BNC Type 1 Vp-p 75 Ω

Camera Looping Outputs¹ 8 or 16-34-pin AMP Connector 1 Vp-p 75 Ω manually switched termination

¹With LTC 8508/01 Cable 1x supplied

Composite Output Full Screen/Sequencing 1 V p-p 75 Ω

One (1) SVGA Monitor Output-1024x768

Display Rate (Max) FPS 120 or 240

Record Rate (Max) FPS 120 or 240

One (1) Audio Input 1/8 in. mini phono jack

One (1) Mic Input 1/8 in. mini phono jack

One (1) Audio Output 1/8 in. mini phono jack

One (1) RJ-45 Ethernet Port 10/100/1000 Base-T (Standard)

One (1) **SCSI-2 Port** HD50 (Standard)

One (1) IEEE-1394 Input

Five (5) USB 2.0 Ports- 4/Rear, 1/Front

One (1) LPT Port

One (1) RS-232 COM Port

One (1) RS-422 Connector via Watchdog Card

Removable HDD 80 GB Operating System Only (Standard)

DVD/CD writer (Standard) Formats DVD + R/RW DVD - R/RW CD-R/RW

One (1) Keyboard Port PS/2

One (1) Mouse Port PS/2

Electrical

Power Supply	Pentium-4 Power Supply
	Selectable Full range 115-240 VAC 60-50 Hz
	560 W (Max)
	It is highly recommended to use a UPS (Uninterruptable Power Supply)

Video

Display Resolution	160 x 120, 320 x 240, 640 x 480 NTSC
Input	1 Vp-p composite video signal, 75 Ω
Composite Output	1 Vp-p composite video signal, 75 Ω

SVGA One (1) DB 15

Audio *1-channel (line in, mic in, line out)
*Line level inputs only
.78 V RMS = 0dB@600Ω

Connectors

Video Input	BNC
Video Looping Out	AMP 34-pin header LTC 8508/01 cable
Composite Video Output	RCA
Audio	1/8 in. mini phone jack
10/100/1000 MB Ethernet	RJ-45

Alarms

Alarm Inputs	4 or 16 programmable N/O, N/C dry contacts
Alarm Outputs ¹	4 or 16 programmable output relays

Image Compression Proprietary temporal compression (Based on enhanced MJPEG and H.263 compression technology)

Image Integrity Proprietary Codec, time/date stamp, watermark authentication

VGA Card AGP 128 MB RAM

Resolution/Average File Size²
160 x 120/1.5 KB; 320 x 240/3 KB;
640 x 480/6 KB

PTZ Control One (1) RS-422, one (1) RS-232³ output supplied

NOTES:

¹Specifications on next page

²Average file size based on temporal refresh

³LTC 8786/60 Series Data Converter is required for RS-232 conversion to biphas

NOTE: Biphas and Pelco[®] protocols have been tested and verified. All other protocols have yet to be tested.

Remote PC Requirements

Processor	Pentium® III, Pentium 4, or AMD, 1 GHz minimum
Memory	256 MB minimum, 512 MB recommended for Drag and Drop feature
Video	Dedicated AGP Graphics Adaptor, 32 MB RAM minimum (64 MB recommended), 32-bit color or better

CAUTION: Recommended graphics boards are ATI Radeon™ or NVIDIA® GeForce™. The software does not support video cards based on SiS or Riva™ TnT2 chip sets, or onboard integrated graphics adaptor with shared memory.

Monitor	SVGA or XVGA set to 1024 x 768 resolution at 60 Hz refresh rate
Hard Disk	500 MB free disk space
Operating System	Windows 2000 Pro SP3, or Windows XP Pro
Browser	Internet Explorer 5.5 or greater

NOTE: When installing the Remote Client software, it is important to upgrade Windows Scripting to version 5.2 or greater. Versions below 5.2 cause installation issues.

PDA Requirements

Processor	PXA255 400 Mhz C1
RAM (Random Access Memory)	64 MB SDRAM (55 MB main memory)
Display	3.5 in. transfective color TFT, 240 x 320 pixels, 64K-color support
Communication	802.11b
OS	Pocket PC 2002 or Higher

Mechanical

Rack-mount Dimensions W x D x H:	17 1/4 in. x 21 in. x 7 in.
Rack-mount Weight	11.3 - 20.4 Kg (25 – 55 lb) based on model

Environmental

Temperature	Operating: 5° to 40°C (41° to 105°F)
Relative Humidity	0 to 90%, noncondensing

Product Regulatory Compliance

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15 and ICES-003
Product Safety	Complies with UL and CSA Standards

Warranty

3 years

Bosch Accessories (Optional)

LTC 8786/60 – RS-232 to biphas converter
S1363-BNC-RCA Converter
DVAS
DVAD

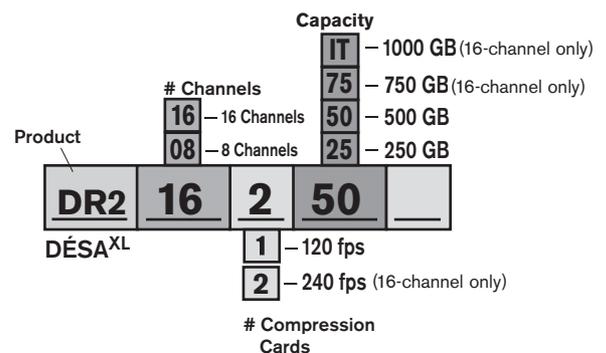
Approved Accessories (Third Party Manufacturers)

StarTech.com (Starview) KVMs
Any UPS (Uninterruptable Power Supply) rated at 560 W per unit
Norton AntiVirus™
McAfee VirusScan

Ordering Information

Use the chart below to create your part number, based on this example:

- DR2 16 2 25:**
- DÉSA^{XL}
 - 16-channel
 - 240 fps
 - 250GB



DÉSA^{XL} Part Numbering Structure

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