

Digital Video Recorders Quick Guide



BOSCH

Invented for life



Bosch Digital Video Recorders		DVR1A	DVR1C	DVR4C	Divar	DiBos Micro	DiBos
System	Operating System	Embedded	Embedded	Embedded	Embedded	Windows XP Embedded	Windows XP Embedded
	Rack Mountable	No	No	No	Yes	Yes	Yes
	SDK Available	No	No	No	Yes	HTML Interface	HTML Interface
	Warranty	3 Years	3 Years	3 Years	3 Years	3 Years	3 Years
Video	Input Channels	1	1	4	6, 9, 16	Analog: 6, 12 IP: 8	Analog: 6, 12, 18, 24, 30 IP: 16, 32
	Looping Video	Yes	Yes	Yes	Yes	Yes	Yes
	Output Composite Outs	1	1	1	2	2	2
	VGA	No	No	No	No	1	1 (plus optional 2nd)
Spot Monitor	No	No	No	Yes	2	2	
Audio	Input	0	2	4	n/a	2, 4 (plus 8 from IP)	2, 4, 6, 8, 10 (plus up to 32 from IP cameras)
	Output	0	2	4	n/a	1	1
	Associate Multiple Cameras to 1 Audio	n/a	n/a	No	n/a	Yes	Yes
Alarms	Inputs	1	1	4	6, 9 or 16 (one per video channel)	12	32
	Relay Outputs	1	1	4	4	12	16
	Call Ip Pre-position on Dome Cameras	n/a	n/a	n/a	Yes	Yes	Yes
	Increase Frame Rate on Alarm	Yes	Yes	Yes	Yes	Yes	Yes
	Multiple Camera Linking on Alarm Event	n/a	n/a	Yes	No	Yes	Yes
	Notification via e-mail	No	No	Yes	No	Yes	Yes
	Notification to Remote PC	No	No	Yes	Yes	Yes	Yes
	Pre-alarm	Up to 220 Seconds	Up to 220 Seconds	Up to 30 Seconds	30 Seconds	Yes	Yes
	Post-alarm	Unlimited	Unlimited	Up to 120 Seconds	Up to 60 Seconds	Yes	Yes
	Motion Detection	No	No	Yes	Yes	Yes	Yes
Compression	Video	M-JPEG	M-JPEG	MPEG-4	Wavelet	MPEG-4, JPEG	MPEG-4, JPEG
	Software or Hardware	Hardware	Hardware	Hardware	Hardware	Video Hardware Audio Software	Video Hardware Audio Software
Frame Rate (IPS)	PAL	50 IPS	50 IPS	100 IPS	50 IPS	75/150	75/150/225/300/375
	NTSC	60 IPS	60 IPS	120 IPS	60 IPS	90/180	90/180/270/360/450
IPS per Camera	PAL	25 IPS (Normal) 50 IPS (Alarm)	25 IPS (Normal) 50 IPS (Alarm)	25 IPS	6 Channels: 8.3 IPS 9 Channels: 5.0 IPS 16 Channels: 3.1 IPS	25 Per Camera Max 150 on a 12 Channel Unit	25 Per Camera Max 375 on a 30 Channel Unit
	NTSC	30 IPS (Normal) 60 IPS (Alarm)	30 IPS (Normal) 60 IPS (Alarm)	30 IPS	6 Channels: 10 IPS 9 Channels: 6.5 IPS 16 Channels: 3.75 IPS	30 Per Camera Max 180 on a 12 Channel Unit	30 Per Camera Max 450 on a 30 Channel Unit
File Size Range		15 KB - 40 KB	15 KB - 40 KB	1 KB - 23 KB	16 KB - 40 KB	1 KB - 30 KB	1 KB - 30 KB
Recorded Video Resolution	PAL	352 x 288	352 x 288	352 x 288	720 x 288	CIF/2CIF/4CIF Analog and IP Cameras	CIF/2CIF/4CIF Analog and IP Cameras
	NTSC	352 x 240	352 x 240	352 x 240	720 x 240	CIF/2CIF/4CIF Analog and IP Cameras	CIF/2CIF/4CIF Analog and IP Cameras
Individual Camera Adjustment (IPS & Quality)		n/a	n/a	No	Yes	Yes	Yes
Schedule Recording Modes		Daily/Weekday/Weekend/Specific Day	Daily/Weekday/Weekend/Specific Day	Day/Night/Weekend	Day/Night/Weekend/Specific Day	Day/Night/Weekend/ Holiday/Specific Day	Day/Night/Weekend/ Holiday/Specific Day
HDD Overwrite Warning		No	No	Yes	No	Yes	Yes
Recording Times	Best Quality/Highest Res., 1 IPS Continuous, 50% Motion, Very Busy Scene (Outdoor)	23 Days (80 GB)	46 Days (160 GB)	13 Days (80 GB) 26 Days (160 GB) 53 Days (320 GB) 99 Days (600 GB)	6 Channels: 17 Days (320 GB) 9 Channels: 12 Days (320 GB) 9 Channels: 22 Days (600 GB) 16 Channels: 13 Days (600 GB) 16 Channels: 21 Days (1000 GB)	6 Channels: 75 Days (400 GB) 12 Channels: 37 Days (400 GB)	6 Channels: 140 Days (750 GB) 12 Channels: 70 Days (750 GB) 18 Channels: 62 Days (1000 GB) 24 Channels: 75 Days (1600 GB) 30 Channels: 60 Days (1600 GB)
	Normal Quality/Standard Res., 1 IPS Continuous, 50% Motion, Very Busy Scene (Outdoor)	37 Days (160 GB)	75 Days (160 GB)	40 Days (80 GB) 78 Days (160 GB) 157 Days (320 GB) 294 Days (600 GB)	6 Channels: 53 Days (320 GB) 9 Channels: 36 Days (320 GB) 9 Channels: 66 Days (600 GB) 16 Channels: 38 Days (600 GB) 16 Channels: 63 Days (1000 GB)	6 Channels: 449 Days (400 GB) 12 Channels: 225 Days (400 GB)	6 Channels: 842 Days (750 GB) 12 Channels: 422 Days (750 GB) 18 Channels: 375 Days (1000 GB) 24 Channels: 450 Days (1600 GB) 30 Channels: 360 Days (1600 GB)

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Bosch Digital Video Recorders		DVR1A	DVR1C	DVR4C	Divar	DiBos Micro	DiBos	
Storage	Internal HDD	80 GB	160 GB	80 - 160 - 320 - 600 GB	80 - 160 - 320 - 600 - 1000GB	120 - 250 - 400 GB	250 - 500 - 750 - 1000 - 1600 GB	
	Export	Supported Devices	Compact Flash	Compact Flash	USB 1.1	Internal CD/DVD Writer Remote Client	CD-RW, DVD, USB 2.0, Network Drive, SCSI	CD-RW, DVD, USB 2.0, Network Drive, SCSI
		Data Format	JPEG	JPEG	Native, AVI, or JPEG	Native File Format	Bosch, ASF	Bosch, ASF
		Back-up Mode	Manual	Manual	Manual	Manual	Manual or Automatic	Manual or Automatic
	Support SCSI Disk Array	No	No	No	Yes, DVSA (Lite and Premium)	Yes, DVSA (Lite and Premium)	Yes, DVSA (Lite and Premium)	
Max. SCSI Array Configuration	n/a	n/a	n/a	12 TB*	13.8 TB**	13.8 TB**		
Search	Timeline Search Bar (Color Coded)	No	No	Yes on Remote Software	Yes on Remote Software	Yes	Yes	
	Zoom and Movement	No	No	Yes	Yes	Yes	Yes	
	Search Mode	Date/time, Events, or Recordings List	Date/time, Events, or Recordings List	Date/time, Events, Motion, Text	Date/time, Camera Number, Events, Motion, Smart Motion Search	Date/time, Camera Name, Events, Pre- Alarm, Motion, Smart Motion Search	Date/time, Camera Name, Events, Pre- Alarm, Motion, Smart Motion Search	
Display	Live Resolution	PAL	720 x 576	720 x 576	720 x 576	CIF/2CIF/4CIF Analog and IP Cameras	CIF/2CIF/4CIF Analog and IP Cameras	
		NTSC	720 x 484	720 x 484	720 x 484	CIF/2CIF/4CIF Analog and IP Cameras	CIF/2CIF/4CIF Analog and IP Cameras	
	Screen Division (Multi-screen)	Full 2x2, 3x3 (with Quad or Mux attached)	Full 2x2, 3x3 (with Quad or Mux attached)	Full, 2x2, Sequence	Full, 2x2, 3x3, 4x4	Full, 2x2, 3x3, 4x4, 5x6	Full, 2x2, 3x3, 4x4, 5x6	
	Camera Lock-outs by User	No	No	No	Yes	Yes	Yes	
	Security/User Management	User Control	User Levels	1	3	2	6	Unlimited
Add/Delete			No	No	No	Yes	Yes	
Set Viewing Permissions			No	No	Yes	Yes	Yes	
Centralized User Management			n/a	No	No	No	Yes - LDAP	Yes - LDAP
Event Logging by User		No	No	No	No	Yes	Yes	
Data Integrity Check (Watermarking, etc.)	Yes	Yes	Yes	Yes	Yes	Yes		
Remote Access	Network	Connection	10BaseT Ethernet	10BaseT Ethernet	10/100 Ethernet	10/100 Ethernet	10/100/1000 Ethernet	
		Protocol	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP, UDP Tunneling	TCP/IP, UDP Tunneling
	Web Browser Access	No	Yes	No	Yes	Yes	Yes	
	Simultaneous Accessible Users	n/a	4	5	6	20 with software; 5 with web browser	20 with software; 5 with web browser	
	Remote PC Client	Resolution	n/a	n/a	720 x 576 (PAL) 720 x 484 (NTSC)	720 x 576 (PAL) 720 x 484 (NTSC)	CIF/2CIF/4CIF Analog and IP Cameras	CIF/2CIF/4CIF Analog and IP Cameras
Full Admin Control		n/a	n/a	Yes	Yes	Yes, Remote Desktop	Yes, Remote Desktop	
PTZ Control		n/a	n/a	n/a	Yes	Yes	Yes	
Export Options		n/a	n/a	Native, AVI, or JPEG	Native File Format (all cameras), .AVI (single camera)	Bosch (All Cameras) ASF (Individual and Multiple Camers)	Bosch (All Cameras) ASF (Individual and Multiple Camers)	
Other Features	Instant Playback	No	No	No	Yes	Yes	Yes	
	Bilinx/Up-the-Coax Camera Control	No	No	No	Yes	Yes	Yes	
	Integrates with G Series Panels	No	No	No	Yes	Yes	Yes	
	PTZ Joystick Control	No	No	No	Yes	Yes - DiBos/BVMS	Yes - DiBos/BVMS	
	ATM/POS Interface	No	No	No	Yes	No	No	
OPC Support	No	No	No	Yes	Yes	Yes		

Ordering Information	Part Numbers/Ordering Charts	DVR4C1081 (80 GB)				DVR4C1161 (160 GB)				DVR4C2161 (320 GB)				DVR4C2301 (600 GB)			
		Type	Inputs	Capacity (x 10 GB)	Revision	Type	Inputs	Capacity (x 10 GB)	Revision	Type	Inputs	Capacity (x 10 GB)	Revision	Type	Inputs	Capacity (x 10 GB)	Revision
Ordering Information	Part Numbers/Ordering Charts	DVR	16 09 06	1 2	2	Divar	12 06	012 025 040	2	DB	30 24 18 12 06	012 025 040	2	DB	30 24 18 12 06	025 050 075 100 160	R2
		Divar with DVD writer	E	08	16	Divar with Bilinx and DVD Writer	G	30	50	H	6 inputs and 750 GB 12 inputs and 250, 400 GB	C1 C2	Model	6 inputs and 750 GB 12 inputs and 750 GB 18 inputs and 250, 500, 1000, 1600 GB 24 inputs and 250, 500, 1000, 1600 GB 30 inputs and 250, 500, 1000, 1600 GB	C1 C2 C3 C4 C5	Model	S SCSI Adapter

* Due to SCSI specifications, the daisy chaining of more than two Digital Video Storage Array subsystems (DVA-08K/DVA-16K) on a single Divar is NOT ALLOWED. Divar can address up to 6 SCSI IDs (7 for units without DVD writer) and a maximum of 2TB per ID (12TB with DVD writer or 14TB for units without a DVD writer). Stated capacities assume JBOD configuration 8% overhead on the HDDs.

** Due to SCSI specifications, the daisy chaining of more than three Digital Video Storage Array subsystems (DVA-08K/DVA-16K) on a single DiBos is NOT RECOMMENDED. The maximum configuration is (2) DVA-16Ks or (1) DVA16K and (2) DVA08Ks daisy chained. Stated capacities assume JBOD configuration and 8% overhead on the HDDs.

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