

# Digital Storage Quick Guide



**BOSCH**

Invented for life



		Direct Attached (SCSI)				Network Attached (iSCSI)		
		Small Range Solutions	Midsize Range Solutions	Small Range Solutions	Midsize Range Solutions	Midsize Range Solutions	Large Range Solutions	Large Range Solutions
Bosch Video Storage Arrays		DSA Lite Series	DVSA Premium Series	DLA 1200 Series	DLA 1400 Series	DVSA iSCSI Series	DSA-N2B20 Series	DSA-N2B40 Series
Target System Size		1-32 Cameras	32 to 64 Cameras	1 to 64 Cameras	32 to 256 Cameras	128 to 256 Cameras	256 to 500 Cameras	500 Cameras and above
Mechanical	Form Factor	2U 19-inch Rack Mount	2U and 3U 19-inch Rack Mount	Mid-Tower	1U and 2U 19-inch Rack Mount	2U 19-inch Rack Mount	2U 19-inch Rack Mount	2U 19-inch Rack Mount
	System Dimensions (H x W x D)	446 x 88 x 490 mm 17.6 x 3.5 x 19.3 in.	8 bay: 446 x 88 x 490 mm 17.6 x 3.5 x 19.3 in. 16 bay: 445 x 130 x 488 mm 17.6 x 5.1 x 19.3 in.	425 x 363 x 183 mm 16.75 x 14.25 x 7.25 in.	4 bay: 425 x 363 x 183 mm 16.75 x 14.25 x 7.25 in. 8 bay: 445 x 130 x 488 mm 17.6 x 5.1 x 19.3 in.	446 x 88 x 490 mm 17.6 x 3.5 x 19.3 in.	89 x 447 x 572 mm 3.5 x 17.6 x 22.5 in.	89 x 447 x 572 mm 3.5 x 17.6 x 22.5 in.
	System Weight	28 kg (62 lbs)	8 bay: 32.5 kg (71.6 lbs) 16 bay: 46 kg (101.4 lbs)	10.8 kg (23.80 lbs)	4 bay: 16.3 kg (36 lbs) 8 bay: 23.6 kg (52 lbs)	32.5 kg (71.6 lbs)	27.215 kg (60 lbs)	27.215 kg (60 lbs)
	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 50 °C (32 °F to 122 °F)	10 °C to 35 °C (50 °F to 95 °F)	10 °C to 35 °C (50 °F to 95 °F)	0 °C to 40 °C (32 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)
	EMC Compatibility	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	FCC Part 15 Class A, CE, others	FCC Part 15 Class A, CE, others
	Product Safety	CE, UL, EN, IEC	CE, UL, CB, EN and IEC	CE, UL, EN, IEC	CE, UL, EN, IEC	CE, UL, CB, EN and IEC	EN 60950, CE, CSA 60950, UL 60950, others	EN 60950, CE, CSA 60950, UL 60950, others
	Warranty	3 Years (all components)	3 Years (all components)	3 Years (all components)	3 Years (all components)	3 Years (all components)	3 Years (all components)	3 Years (all components)
	Power Supplies	Number	1	2	1	2	2	2
		Redundant	No	Yes	No	Yes	Yes	Yes
	Fans	Hot Swappable	No	Yes	No	Yes	Yes	Yes
Power Consumption		350W	4 bay: 350W 16 bay: 460W	200W	4 bay: 230W 8 bay: 291W	350W	332W	357W
System	Processor	Type	RISC CPU	PowerPC 750FX	Intel® Pentium G6950 Dual Core	Intel® Pentium G6950 Dual Core	PowerPC 750FX	Mobile Celeron
		Speed	400 MHz	600 MHz	2.8 GHz, 1333 MHz FSB	2.8 GHz, 1333 MHz FSB	600 MHz	2.2 GHz
	Processor Cache	256 KB L2 Cache	256 KB L2 Cache (expandable to 2 GB)	3 MB L2 Cache	3 MB L2 Cache	256 KB L2 Cache (expandable to 2 GB)	1 GB	4 GB
	Memory	256 MB, DDR ECC RAM	1 GB, DDR ECC RAM	4 GB, DDR2-800 ECC RAM	4 GB, DDR2-800 ECC RAM	1 GB, DDR ECC RAM	1 GB, DDR2-800 ECC RAM	4 GB, DDR2-800 ECC RAM
Host Interface	Type	U320 SCSI	U320 SCSI	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	
	RAID Levels	0, 1(0+1), 3, 5, 10, 30, 50, JBOD	0, 1(0+1), 3, 5, 10, 30, 50, JBOD	JBOD	RAID-5	0, 1(0+1), 3, 5, 10, 30, 50, JBOD	RAID-4 stripe-at-a-time / RAID-DP	RAID-4 stripe-at-a-time / RAID-DP
Storage	Disk Drives	Type	SATA-II	SATA-II	SATA-II	SATA-II	SATA-II	
		Maximum Drives Supported	8	8 or 16	4	4 or 8	12	12
		Hot Swappable	Yes	Yes	No	Yes	Yes	Yes
	Storage Expansion	Available Capacities	500 GB - 1 TB	500 GB - 1 TB	1 TB	1 TB	1 TB	1 TB
		Expansion Links	N/A	U320 SCSI	N/A	N/A	N/A	Fibre Channel
		Number of Expansion Units	N/A	Up to 2 additional DVSA Arrays	N/A	N/A	N/A	Up to 2 Expansion Shelves
		Maximum Drives Supported	N/A	32	N/A	N/A	N/A	56
	Capacity	Hot Swappable	N/A	Yes	N/A	N/A	N/A	Yes
		Base System (Raw)	8 TB	8 bay: 8 TB 16 bay: 16 TB	4 TB	4 bay: 4 TB 8 bay: 8 TB	12 TB	12 TB
		Base System (RAID Configuration)	6.5 TB	8 bay: 6.5 TB 16 bay: 11.8 TB	3.6 TB (JBOD)	4 bay: 2.7 TB 8 bay: 6.4 TB	10.2 TB	6.9 TB (RAID-4) / 6.3 TB (RAID-DP)
Base System + Expansion (Raw)		N/A	3 x 8 bay: 24 TB 3x 16 bay: 48 TB	N/A	N/A	N/A	68 TB	
Base System + Expansion (RAID Configuration)	N/A	3 x 8 bay: 19.5 TB 3 x 16 bay: 35.4 TB	N/A	N/A	N/A	37 TB		
Performance	Array Throughput / Bandwidth	200 Mbps	200 Mbps	150 Mbps	200 Mbps	200 Mbps	250 Mbps	
Drive Throughput	3.0 Gbps	3.0 Gbps	3.0 Gbps	3.0 Gbps	3.0 Gbps	3.0 Gbps	3.0 Gbps	
Maximum Number of iSCSI Camera Connections	N/A	N/A	64 (32 VRM channels included)	128 (64 VRM channels included)	40	128	256	
Maximum Number of iSCSI Replay Sessions	N/A	N/A	8	8	8	8	8	
Monitoring	Remote Mgmt.	Remote Desktop	No	No	Yes	Yes	No	
	Web Client	Yes	Yes	No	No	Yes	Yes	
Alerts	SNMP	Yes	Yes	Yes	Yes	Yes	Yes	
	e-Mail, LAN broadcast	e-Mail, LAN broadcast	e-Mail, LAN broadcast	e-Mail, LAN broadcast	e-Mail, LAN broadcast	e-Mail, LAN broadcast	e-Mail, LAN broadcast	
Platform Support	Supported HW	Recorders	Divar-2, DiBos	Divar 700 Series	Divar 700 Series	N/A	N/A	
	Direct-to-iSCSI	N/A	N/A	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v4.x or greater	
	BVIP Lite Suite	N/A	N/A	Yes (v3.23 or newer)	Yes (v3.23 or newer)	No	No	
	VIDOS NVR	Yes	Yes	No	No	No	No	
	VIDOS	No	No	Yes (v4.02 or newer)	Yes (v4.02 or newer)	Yes	Yes	
	BVMS	No	No	Yes (v2.20 or newer)	Yes (v2.20 or newer)	Yes	Yes	
Supported SW	VRM	No	No	Yes (v2.11 Embedded)	Yes (v2.11 Embedded)	Yes	Yes	
	BVC	No	No	Yes	Yes	Yes	Yes	