Flexible & Economical	High Power Low Price	Extra High Throughtput
DX1	**DX3**	**DX5**
80 Mbps	180 Mbps	360 Mbps

RECORDING THROUGHPUT

NDAA COMPLIANT

Digital Watchdog DX Series Servers

Digital Watchdog DX™ Series slim desktop recorder/ servers are reliable and high-performance solutions for recording and serving multiple IP cameras of any resolution at 80/180/360Mbps throughput.

The servers are NDAA and TAA compliant and include Linux® Ubuntu® OS on a separate SSD. Hardware features include an Intel® processor, dual network cards and 2 x SATA ports provided for installation of up to 2 x 20TB hard drives (not included).

DX servers come pre-loaded with DW Spectrum® IPVMS server, a lightweight, powerful media server responsible for discovering, connecting to, and managing DW Spectrum IPVMS system devices and data.

Install the free Spectrum Client software on a separate PC or use the free Mobile app for a user experience unlike any other video management software.

- Supports all ONVIF conformant IP cameras
- Up to 2 x 20TB internal storage
- Record and manage single and multi-sensor IP cameras of any resolution at high throughput.
- Dual network ports
- Linux® Ubuntu® installed on separate SSD
- Hosting DW Spectrum® for setup, configuration, monitoring and recording
- Spectrum recording licences are a once-off purchase with no annual fees.[1]
- Simple enterprise scalability and auto device discovery
- Dual stream recording
- USB mouse and keyboard included
- Quality hardware with easy-fit HDD carrier
- Designed, assembled and tested in the U.S.A.
- NDAA/TAA compliant

Multiple USB 3.0 ports, dual network ports, Multiple display outputs (displays usually only required for initial configuration of the server).

Quality hardware with 'Easy-Clip' storage carrier for easy installation of up to 2 x 3.5" optional hard drives.

[1]Spectrum recording licences sold separately.

Innovative Electronics Solutions

Digital Watchdog DX Series Servers

The number of cameras supported and recorded depends greatly on the chosen recording resolution, frame rates, motion recording, hard drive sizes. The following examples provide a guide to typical systems.

Configure your own system using the DW Spectrum online calculator.

RECORDING CAPABILITY EXAMPLES

MODEL	Configuration	Cameras Qty	Camera Resolution	Recording Codec	Quality	Frame Rate	Motion	Data Rate Used (Maximum)	Days Recording	Total HDD size required	Recommended HDDs*
DX1	Common	12	6MP	H.265	Best	6fps	70%	32.06 (80)	30	6.93TB	1 x 10TB
DX1	High capacity	6	8MP	H.265	Best	25fps	70%	78.52 (80)	30	16.98TB	2 x 10TB
DX3	Common	34	6MP	H.265	Best	6fps	70%	90.84 (180)	30	19.65TB	2 x 10TB
DX3	High capacity	13	8MP	H.265	Best	25fps	70%	170.12 (180)	16	19.62TB	2 x 10TB
DX5	Common	64	6MP	H.265	Best	6fps	70%	171 (360)	14	19.65TB	2 x 10TB
DX5	High capacity	27	8MP	H.265	Best	25fps	70%	353.32 (360)	7	17.83TB	2 x 10TB

Examples are provided as a guide to typical scenarios. Your own results will depend on configuration and operating variables for each site.

DX servers are configured as recorders and VMS servers and are not designed to run Client software. Normal practice is to view via Spectrum Client software on a different machine.

*If using larger hard drives (supports up to 2 x 20TB) the numbers of cameras can be increased. Please refer to the DW Spectrum online calculator to tailor storage to the specific site.

Complete Scalable Video Management
DW Spectrum® IPVMS is an endlessly customizable IP video management platform that gives users the ability to create tailored network video solutions for any type of project, for use by anyone, on any device.
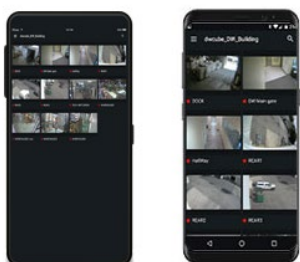
DX1 / DX3 / DX5 Recorder/Server	Run Spectrum Client on any PC on the network	Create a free Cloud account	Install the free mobile app
Server	**Client**	**Cloud**	**Mobile**
A media server responsible for discovering, connecting to, and managing system devices and data.	A rich media player with a flexible GRID interface designed for connection to and managing DW Spectrum systems.	A cloud-based service that enables simple, centralized remote access and insight into any DW Spectrum system.	A mobile app designed for viewing DW Spectrum system video and events while on the go.
SERVER OS SUPPORT:	DESKTOP OS SUPPORT:	SUPPORTED BROWSERS:	MOBILE OS SUPPORT:

SUPPORTED BROWSERS: chrome, Firefox, Microsoft Edge, Safari, Opera

Free Spectrum Client app

Software Features for DW® Client
A rich media player with a flexible grid interface, unmatched speed and responsiveness, instant event notifications, an embedded browser, and a user experience unlike any other video management software.

SPECIFICATIONS

Part No.	123-212-SP	123-213-SP	123-215-SP	123-217-SP
Model	DW BJ-DX1 Server	DW BJ-DX3 Server	DW BJ-DX5 Server	DW BJ-DX7 Server
Operating System	Linux Ubuntu®			
IVMS Installed	DW Spectrum® IPVMS Server			
CPU	Intel® Celeron	Intel® i3	Intel® i5	Intel® i7
Memory	8GB		16GB	
Video storage rate max.	80 Mbps	180 Mbps	360 Mbps	480 Mbps
Storage	1 x SSD pre-installed for OS and Spectrum software 2 x SATA ports available for storage. Supports up to 2 x 20TB HDD max. HDDs not included.			
Video Outputs	1x true HD, 1x DVI-D, 1x D-Sub for system configuration. Maximum 1 display output at a time.			1x true HD, 1x DP for system configuration. Maximum 1 display output at a time.
Ethernet Ports	2x 1G Ethernet ports (RJ45)			1x 1G, 1x 2.5G
Remote Clients	Cross-platform - Windows®, Linux Ubuntu® and Mac®			
Mobile Apps	iOS® and Android® free apps available			
Form Factor	Slim Desktop			
Keyboard and Mouse	Included			
Power Supply	300W (UPS is recommended for backup, not included)			
Operating Temperature	5°~40℃			
Operating Humidity	20~90% RH			
Certification	NDAA, TAA			
Warranty	3 Years parts and labour return to base warranty			
Dimensions	335W x 97H x 402D mm)			

Designed and assembled in USA

OS and Spectrum installed in Australia

NDAA/TAA
COMPLIANT PRODUCT

ONVIF

Ordering Information

123-212-SP	DW BJ-DX1 Server inc Linux & Spectrum - no HDD
123-213-SP	DW BJ-DX3 Server inc Linux & Spectrum - no HDD
123-215-SP	DW BJ-DX5 Server inc Linux & Spectrum - no HDD
123-217-SP	DW BJ-DX7 Server inc Linux & Spectrum - no HDD

(DX7 available by customer order)

Spectrum Recording Licences - Sold Separately

123-500	DW Spectrum Recording Licence - Single
123-500-4	DW Spectrum Recording Licence - Group of 4
123-500-10	DW Spectrum Recording Licence - Group of 10
123-500-20	DW Spectrum Recording Licence - Group of 20
123-500-50	DW Spectrum Recording Licence - Group of 50
123-500-100	DW Spectrum Recording Licence - Group of 100

Ness CORPORATION

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ISO 9001
NSW Head Office only

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ASSOCIATION LIMITED