MILESTONE HUSKY™ X8

The Milestone Husky X8 is a high performing network video recorder, offering astonishing performance and extreme reliability.

The Milestone Husky X8 is a high performing server class network video recorder designed for the high-end market. It offers extreme reliability with component, storage and application redundancy, ensuring continuous uninterrupted operation. Leveraging the XProtect video management software, hardware accelerated video processing and Western Digital Purple™ HDD technology, the unit offers a proven capacity of 780 cameras with continues recording, and 300 cameras with server-side motion detection.

High-performance NVR hardware platform

Based on an Intel® Xeon® E3 CPU the Husky X8 offers unparalleled camera capacity with a proven performance of 780 cameras* with continues recording. The onboard Intel® Iris™ Pro 4-core GPU provides video decoding capacity for server-side motion detection, making Husky X8 capable of supporting 300 cameras* with server-side VMD.

The eight disk bays support surveillance class drives up to 112 TB[1] total storage, offering a recording rate of 1,8 Gbit/s.

Reliable

Husky X8 is designed to ensure continuous uninterrupted operation through redundancy on component level, storage level and application level.

Built with server-grade components where all critical components are duplicated. Dual SSD Windows OS and VMS disks ensure a fast re-boot and that critical system data is not lost, while video data is protected by RAID 5/10. Additional layer of redundancy is available with XProtect hot/cold failover recording server configuration, reducing the risk for interruptions to the minimum.

Extendable storage

The unit's internal storage can easily be complemented with external storage environments, such as SANs using high speed 10 Gbit/s connections. Its Converged Network Adapter also enables direct connection of storage arrays via high speed iSCSI or FCoE connections.

The XProtect VMS archive handling manages optimal use of internal and external storage and ensures that video is always online and instantly accessible.

Ordering information

BAREBONE UNITS		STORAGE AND TRAYS*	
HX8R	Husky X8 barebone w/RAID	**HXGS4TB-4**	4 * 4TB HDD (16TB total) w/tray for X8
HX8RC	Husky X8 barebone w/RAID and CNA	**HXGS6TB-4**	4 * 6TB HDD (24TB total) w/tray for X8
		HXGS8TB-4	4 * 8TB HDD (32TB total) w/tray for X8
		HXGS10TB-4	4 * 10TB HDD (40TB total) w/tray for X8
		HXGS12TB-4	4 * 12TB HDD (48TB total) w/tray for X8
		HXGS14TB-4	4 * 14TB HDD (56TB total) w/tray for X8
		HXGST-4	4 * HDD tray for X8

* Milestone Husky X8 NVR may be used with storage drives sourced from other parties than Milestone, provided that the type of storage drives used have been validated and approved by Milestone. Please refer to **www.milestonesys.com/husky-support** for a complete list of approved storage drives.

General Specification

Max. number of cameras
780 cameras* continues recording
300 cameras* with server-side VMS

Form factor
2U rack-mount
(rack rails not included)

Dimensions (WxDxH)
43 x 46.6 x 8.8 cm
17 x 18.4 x 3.5 inch

Shipping weight
Approx. 22.8 kg /50.3 lbs,
dependent on incl. HDD

Hardware warranty
3 years

Compute System

CPU
Intel® Xeon® E3-1515M V5 2.8 GHz

CPU passmark
10509

GPU
Intel® Iris™ Pro Graphics P580

GPU video decoding
Yes, Smart Client and server side VMD

RAM
16 GB DDR4 (HX8R) / 32 GB DDR4 (HX8RC)

Credential and key encryption
Trusted platform module (TPM 2.0)

Operating system (OS)
Windows 10 IoT Enterprise Semi-Annual Channel

Storage System

Max. recording rate
1828 Mbit/s

Internal video storage (raw)[1]
32/48/64/80/96/112 TB

Number of hot-swap HDD drives
8 bays, SATA 6 Gb/s
(All disk bays shall be used)

RAID controller & support
RAID 5/10
MegaRAID® SAS/SATA 9361-8i

Archiving to external NAS/SAN
Yes (HX8R) / Yes via iSCSI and FCoE (HX8RC)

VMS/OS storage
2 x 256 GB SSD M.2, RAID 1

Software recovery image
Yes

Network System and Connections

Network interface
2 x 1 GbE RJ45
2 x 10 GbE RJ45 incl. iSCSI and FCoE (HX8RC only)

Remote Management
Yes, Intel® Active Management
Technology (AMT)

Display connections
1 DVI + 2 HDMI
Supports 2 simultaneous displays

Maximum resolution
4K for HDMI , 1920 x 1200 for DVI

USB
2 (front) + 4 (rear) x USB 3.0

Power System

Power input
100~240V, 50/60 Hz

Max. power consumption
150 W

Redundant power supply
Yes, hot-swap

Protection
OVP (over voltage), OCP (over current), OTP
(over temp), SCP (short circuit)

Environmental

Operating temperature
0º – 40º C / 32º – 104º F

Storage temperature
-20º – 70º C / -4º – 158º F

Humidity
10 – 90% relative humidity (non-condensing)

Regulatory

Regulatory compliance
CE (class A), WEEE, FCC (class A)[2], RCM, UL,
Mexico (CoC)

XProtect VMS software
Milestone Husky X series NVRs are preloaded with Milestone XProtect Advanced VMS, which means that they can be used with the following XProtect VMS variants: Professional+, Expert and Corporate, where required licenses are obtained separately. The units can also be used with XProtect Essential+ with up to 8 cameras for free.

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*)   No hard system limit, maximum number of cameras only limited by available system resources and recording speed. Stated number validated with, 720P @25 FPS, 2 Mbit/s
1   Please refer to **www.milestonesys.com/husky-support** for a complete list of approved storage drives.

2   This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received: including interference that many cause undesired operation.