



# 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 continuous 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 continuous 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.

Eight disk bays supporting 4TB, 8TB or 10TB Western Digital Purple™ drives offers 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*	
<b>HX8R</b>	Husky X8 barebone w/RAID	<b>HXGS4TB-4</b>	4TB HDD w/tray for X8 (4-pack)
<b>HX8RC</b>	Husky X8 barebone w/RAID and CNA	<b>HXGS8TB-4</b>	8TB HDD w/tray for X8 (4-pack)
		<b>HXGS10TB-4</b>	10TB HDD w/tray for X8 (4-pack)
		<b>HXGST-4</b>	HDD tray for X8 (4-pack)

\* 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](http://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

### 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 CBB

## Storage System

### Max. recording rate

1828 Mbit/s

### Internal video storage (raw)

32/64/80 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

0° – 40° C / 32° – 104° F

### Storage temperature

-20° – 70° C / -4° – 158° F

### Humidity

10 – 90% relative humidity (non-condensing)

## Regulatory

### Regulatory compliance

CE (class A), WEEE1, FCC (class A)1, RCM, UL,  
VCCI (class A)2,3, 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 Express+ with up to 8 cameras for free.

\* ) 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 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 may cause undesired operation.

2 This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

3 VCCI (class A) - この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。