

NVR Hardware Platform with Scalable Software



The Milestone Husky™ M500/M550 Advanced NVR's go beyond the ordinary all-in-one network video recorders (NVRs). Designed in a 2U rack form factor, they are purpose built high-performance surveillance recording hardware platforms. The M500A has a guaranteed support of 600Mb/s recording rate. The M550A has a guaranteed support of 1400Mb/s recording rate. Preloaded with Milestone XProtect Advanced VMS software, the units combine comprehensive video surveillance functions and high performance, with low total cost of ownership. This makes them the most versatile and capable recording platforms available with Milestone XProtect software.

Key Features

Easy system design - fast deployment

- Simplified product sku's
- Easy to calculate system requirements using the Husky Calculator
- Pre-installed with Windows 10 Operating System, Milestone XProtect Expert and XProtect Corporate
- Pre-licensed with XProtect Expert base software
- Quick setup with the Husky Assistant

High performance NVR Hardware Platform

- Milestone exclusive designed and built hardware platform
- Performance guaranteed of 600 Mb/s or 1400Mb/s recording rate
- RAID Controller - optimized for streaming applications and supporting RAID 5/6/10/50
- Western Digital Purple Drives – optimized for Surveillance NVRs

Expanded Performance (M550A Only)

- 10Gbe LAN + Storage HBA using the Intel Converged Network Adapter X550T2
- Hot swappable, Dual Power Supply (n+1)

Scalable software

- Flexible licensing of either XProtect Expert or XProtect Corporate software
- Hardware optimized advanced VMS functions
- Full system NVR redundancy with hot or cold failover recording servers
- Real-time device load optimization with hardware move functionality
- Extend video storage with archiving to 3rd party NAS storage units

Lowest NVR total cost of ownership

- Industry leading price-performance ratio
- Lower support costs with Milestone customer dashboard provides proactive system monitoring tools and backup recovery image
- Software license portability lowers license administration and management costs.
- Free upgrades to current Milestone XProtect Software
- Includes a 3 years hardware warranty and Milestone Care™ Plus for investment protection

About Milestone Systems

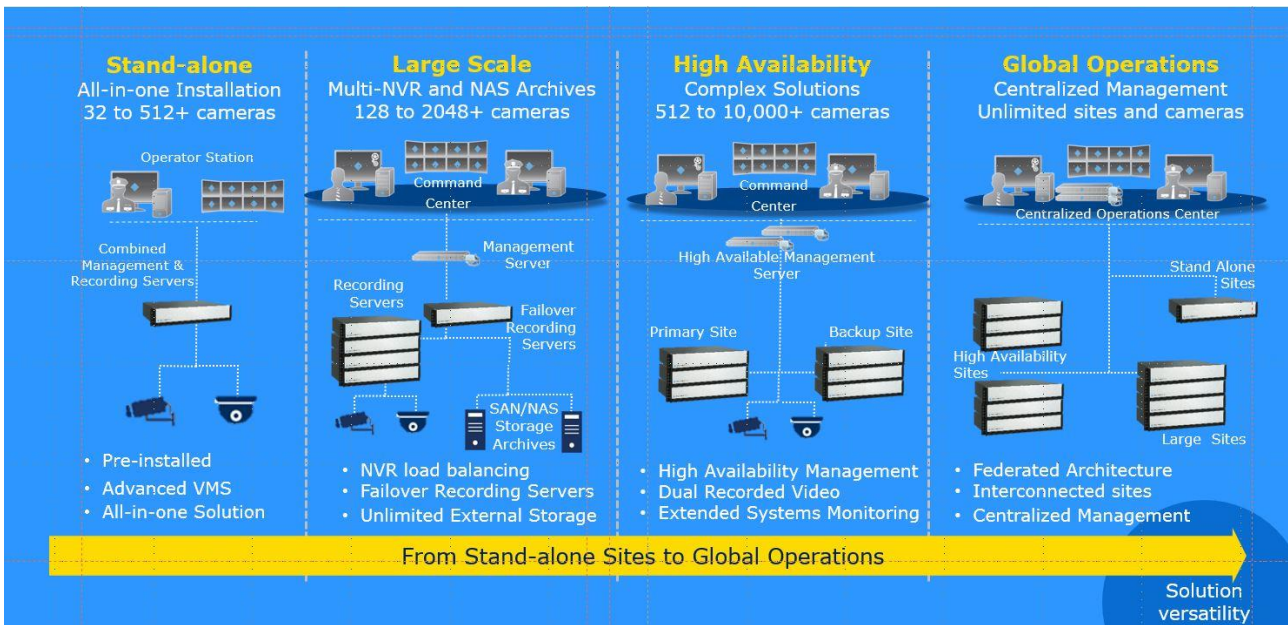
Milestone Systems is a global industry leader in open platform IP video management software, founded in 1998 and now operating as a stand-alone company in the Canon Group. Milestone technology is easy to manage, reliable and proven in thousands of customer installations, providing flexible choices in network hardware and integrations with other systems. Sold through partners in more than 100 countries, Milestone solutions help organizations to manage risks, protect people and assets, optimize processes and reduce costs. For more information, visit www.milestonesys.com

Solution versatility

Milestone Husky M500A / M550A are versatile NVR's which can be applied in a variety of system configurations. Traditionally NVR's are deployed as a stand-alone all-in-one NVR installations but the Milestone Husky M500A / M550A Advanced NVR's can be deployed in many other ways. They can replace expensive IT servers for large scale multi-NVRs environments which require the use of external storage archives. Unlike typical NVR's the M500A / M550A be used in high-availability complex solutions or globally operations with centralized management.

NVR's are pre-installed with Milestone XProtect Expert and Corporate. The industries #1 VMS is also the industry's most scalable software. Using Milestone's Advanced VMS products you can operate the Husky M500A or M550A as a dedicated primary or failover recording server, as management server, or ONVIF gateway. They can be used as an edge recording systems in remote locations which are connected to a centralized surveillance site using Milestone Federated Architecture or Milestone Interconnect. The possibilities are endless when you use Milestone XProtect products.

When building distributed surveillance installations, Husky M500A / M550A Advanced



Milestone Husky M500/ M550A are pre-licensed with XProtect Expert and pre-installed Xprotect Corporate:

- ✓ Scalable VMS Software
- ✓ High performance NVR Hardware Platform
- ✓ Failover recording server support
- ✓ Comprehensive management & monitoring
- ✓ Metadata analytic support
- ✓ Hardware Accelerated Video Decoding
- ✓ Compatible with thousands of cameras
- ✓ Supports XProtect add-ons XProtect® add-ons (e.g. XProtect® LPR and XProtect® Access), Milestone ONVIF Bridge



XProtect®
Smart Client



Milestone
Mobile



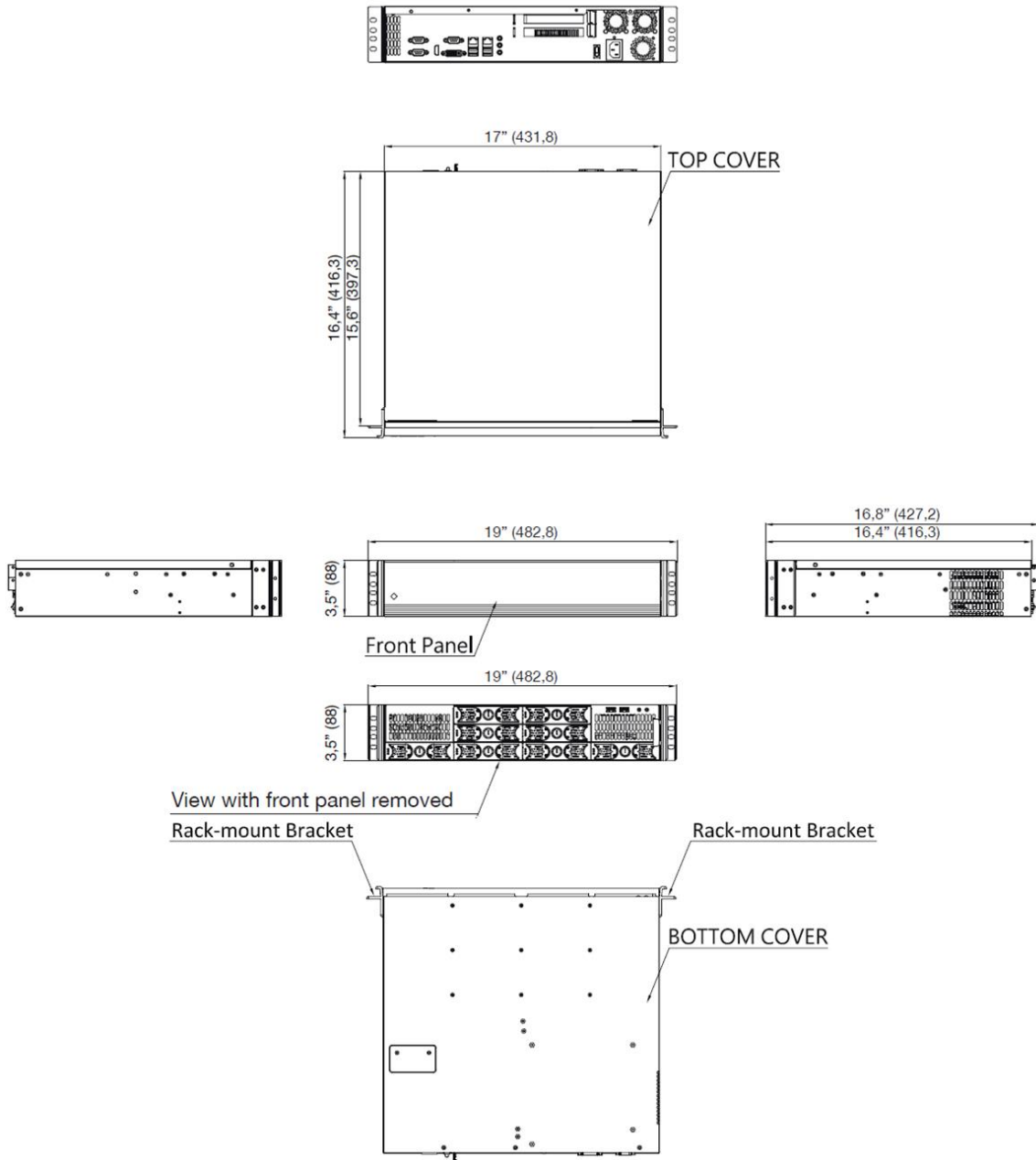
XProtect®
Web Client

Husky M500/M550 Advanced supports all Milestone clients:

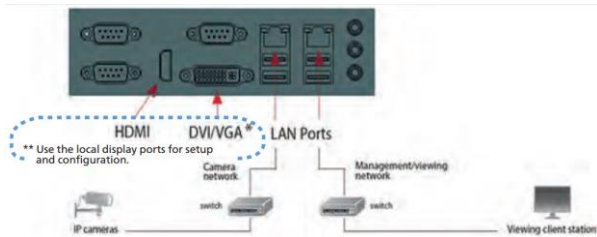
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M500A Dimensions



Back Panel Layout

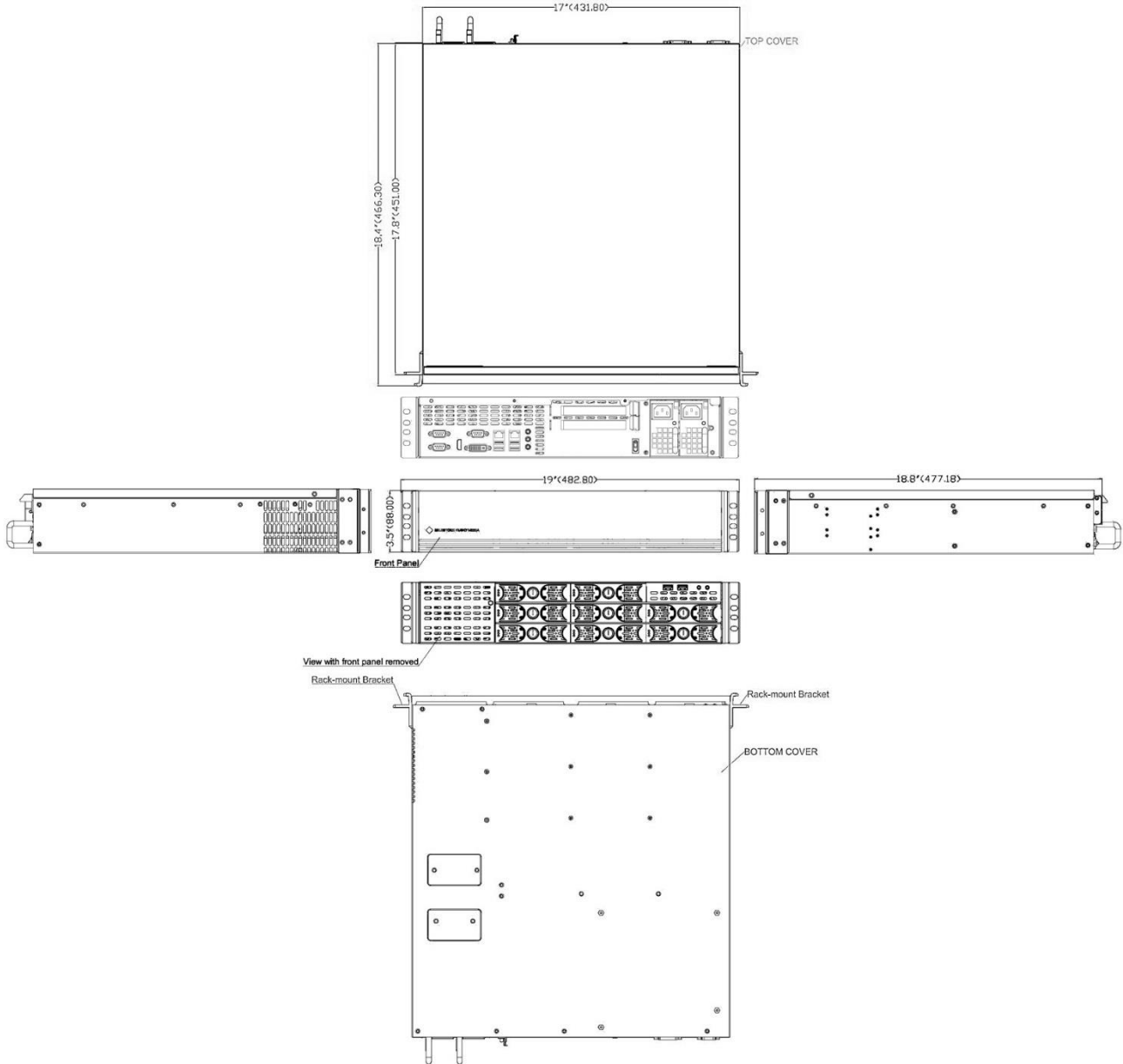


**IMPORTANT: Local viewing should be using Hardware Accelerated Smart Client and may lower overall number of cameras being recorded.

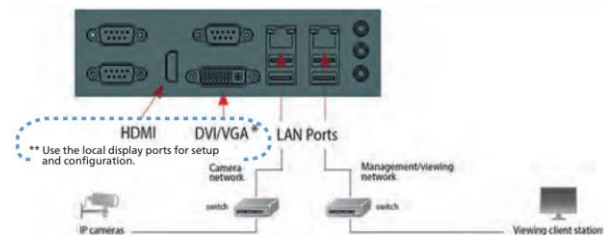
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M550A Dimensions



Back Panel Layout



***) IMPORTANT: Local viewing should be using Hardware Accelerated Smart Client and may lower overall number of cameras being recorded.

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Specifications

Specification				M500A		M550A	
Compute System	CPU			Intel i7 3610 QE		Intel i7 3610 QE	
	Processor Base Frequency			2.3 GHz		2.3 GHz	
	Passmark			7463		7463	
	Intel Smart Cache			6 MB		6 MB	
	Instruction Set			64-bit		64-bit	
	Number of Cores			4		4	
	Number of Threads			8		8	
	PCI Express	Revisions	Configuration	2.0	1x16	3.0	2x8
	Intel Quick Sync Video			Yes		Yes	
	Intel Turbo Boost Technology			Yes		Yes	
	Intel Hyper-Threading			Yes		Yes	
	RAM			16GB		16GB	
	Operating System			Windows 10		Windows 10	
	OS Storage			128GB mSata SSD		128GB mSata SSD	
Network System	Number of Ethernet Ports			2		4	
	Port Speed			100BASE-T, 1000BASE-T		100BASE-T, 1000BASE-T, NBASE-T, 10GBASE-T	
	Cable Type			CAT 5e, CAT6		CAT 5e, CAT6, CAT6A	
	Dual IP Addressable			Yes		Yes	
	IPv4 Support	IPv6 Support		Yes	Yes	Yes	Yes
	Teaming Support			Yes		Yes	
	Camera Multicast Support			Yes		Yes	
	Smart Client Multicast Support			Yes		Yes	
	NVR Class			Up to 512 Cameras		Up to 768 Cameras	
	Video Management System pre-installed			Milestone XProtect Expert or XProtect Corporate		Milestone XProtect Expert or XProtect Corporate	
Management Server Database			Microsoft SQL Server 2014 Express Edition		Microsoft SQL Server 2014 Express Edition		
Base License included			XProtect Expert 2016, pre-licensed		XProtect Expert 2016, pre-licensed		
VMS License Portability			Yes		Yes		
Recording Server			Yes		Yes		
Failover Server			Yes, Hot or Cold Standby		Yes, Hot or Cold Standby		
Management Server			Yes		Yes		
All In One VMS			Yes		Yes		
Codec Support			H.264, MJPEG, MPEG4, MxPEG		H.264, MJPEG, MPEG4, MxPEG		
Audio Support			Yes, Two-Way		Yes, Two-Way		
Remote Viewing and Playback			Yes		Yes		
Care Plus			3 Years included		3 Years included		
Hardware accelerated video decoding Smart Client			Yes		Yes		
Software Trade-in			Yes 100% w/ Care Plus		Yes 100% w/ Care Plus		
Software Upgrades			Yes w/ Care Plus		Yes w/ Care Plus		
Recovery Image			Yes		Yes		
VMS Install Wizard			Yes, Husky Assistant		Yes, Husky Assistant		
Storage System	Max Recording Rate			600Mb/s		1400 Mb/s	
	RAID Controller			MegaRAID® SAS/SATA 9260-8i		MegaRAID® SAS/SATA 9260-8i	
	Number of Ports			8		8	
	Data Transfer Rates			6Gb/s per port		6Gb/s per port	
	RAID Levels			5/6		5/6	
	RAID Spans			10/50		10/50	
	Hot Plug in Play Disk Drives			Yes		Yes	
	Hot Spare			Yes		Yes	
	Sector Size			64KB		64KB	
	Number of Drives			8		8	
	Drive Type			Western Digital Purple Drives		Western Digital Purple Drives	
	Drive Sizes			1TB/ 2TB / 4TB / 6TB / 8TB		1TB/ 2TB / 4TB / 6TB / 8TB	
	Raw Maximum Storage			8TB / 16TB/ 32TB/ 48TB / 64TB		8TB / 16TB/ 32TB/ 48TB / 64TB	
	Drive Interface			SATA 6 Gb/s		SATA 6 Gb/s	
	Volume Block Size			64KB		64KB	
	Drive RPM Speed			5400		5400	
	Drive Data Transfer Rate (Host to/from drive sustained) / Per Drive			110 MB/s – 178 MB/s		110 MB/s – 178 MB/s	
	Drive Cache (MB)			64 - 128		64 - 128	
	External LiveDB Storage	NAS	SAN	No	Yes, iSCSI, software based	No	Yes, iSCSI or FCoE, both hardware based
	External ArchiveDB Storage	NAS	SAN	Yes	iSCSI, software based	Yes	Yes, iSCSI or FCoE, both hardware based

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Specifications, Cont

	Specification	M500A	M550A
Power System	Power Input	100~240V, 50/60 Hz, 200W	TBD
	Typical Power Consumption	90-120 watts/hr (configuration dependent)	TBD
	Maximum Watts	300W	400W
Environmental	MTBF (Mean Time Between Failures)	TBD	100,000 Hours
	Protections	TBD	OVP (over voltage), OCP (over current) , OTP (over temp) , SCP (short circuit)
	Hot Swappable PSU	No	Yes
Accessories	Power Cables	Yes, type dependent on region	Yes, type dependent on region
	Keyboard and Mouse	In selected regions only	In selected regions only
	Connectors	1x DVI to VGA converter	1x DVI to VGA converter
Other	Regulatory Compliance – Partial Listing	CE (class A), WEEE, FCC (class A), RCM, UL, VCCI, Mexico(CoC), South Africa(CoC)	CE (class A), WEEE, FCC (class A), RCM, UL, VCCI, Mexico(CoC), South Africa(CoC)

Ordering Information

SKU	Description
M500A-XPET-8TB	Husky M500A XProtect Expert NVR, 8TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM500A-XPET-16TB	Husky M500A XProtect Expert NVR, 16TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM500A-XPET-32TB	Husky M500A XProtect Expert NVR, 32TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM500A-XPET-48TB	Husky M500A XProtect Expert NVR, 48TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM500A-XPET-64TB	Husky M500A XProtect Expert NVR, 64TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM500A-XPETDL	Husky M500A/M550A XProtect Expert NVR Device License, including 3 years Care Plus
UHM500A-XPETBL	Trade-in Husky M500A/M550A XProtect Expert NVR Base License credit with Care Plus
XPCOBT	XProtect Corporate Base License
XPCODL	XProtect Corporate Device License

SKU	Description
HM550A-XPET-8TB	Husky M550A XProtect Expert NVR, 8TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM550A-XPET-16TB	Husky M550A XProtect Expert NVR, 16TB, RAID 5/10, Rack Mounted, 0 devices Licenses
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HM550A-XPET-48TB	Husky M550A XProtect Expert NVR, 48TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM550A-XPET-64TB	Husky M550A XProtect Expert NVR, 64TB, RAID 5/10, Rack Mounted, 0 devices Licenses
HM500A-XPETDL	Husky M500A/M550A XProtect Expert NVR Device License, including 3 years Care Plus
UHM500A-XPETBL	Trade-in Husky M500A/M550A XProtect Expert NVR Base License credit with Care Plus
XPCOBT	XProtect Corporate Base License
XPCODL	XProtect Corporate Device License

Milestone Husky M500A/M550A includes 3 years Milestone Care Plus coverage for XProtect Expert.

Milestone also offers optional Care Premium technical support services for Husky M500A/M550A.

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Milestone Systems has 20 offices worldwide and is distributed in more than 100 countries. For more information on how to contact us and to get purchase information, please visit our website milestonesys.com.

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