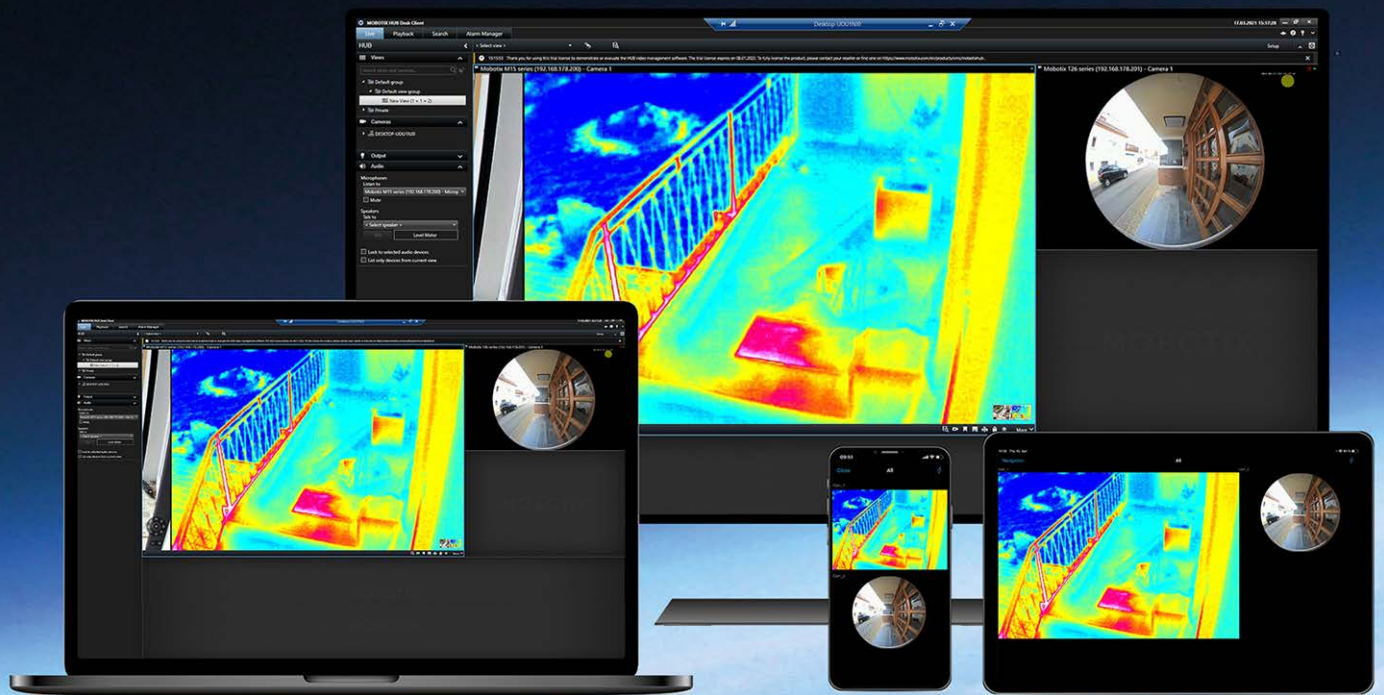


System Requirements

MOBOTIX HUB 2025 R1

© 2025 MOBOTIX AG



BeyondHumanVision

MOBOTIX

V1.01_6/26/2025, Order Code: N/A

Table of Contents

Table of Contents	2
MOBOTIX HUB L1 - L5	3
MOBOTIX HUB Desk Client	5
MOBOTIX HUB Web Client	6
MOBOTIX HUB Mobile	7
Server Specifications for Typical VMS Projects	8
Default Camera Settings	8
System Requirement for 10 Cameras	8
System Requirement for 50 Cameras	9
System Requirement for 100 Cameras	10
System Requirement for 150 Cameras	10
System Requirement for 300 Cameras	11
System Requirement for 1000 Cameras	12

MOBOTIX HUB L1 - L5

Computer running MOBOTIX HUB L1 - L5

Name	Description
Operating System	Microsoft® Windows® 10 Pro (64 bit)
	Microsoft® Windows® 10 Enterprise (64 bit)
	Microsoft® Windows® 10 IoT Enterprise LTSB (Long-Term Servicing Branch) 2016
	Microsoft® Windows® 10 IoT Enterprise (64 bit)
	Microsoft® Windows® 11 Pro
	Microsoft® Windows® 11 Enterprise
	Microsoft® Windows® Server 2016: Essentials, Standard and Datacenter
	Microsoft® Windows® Server 2019: Essentials, Standard and Datacenter
	Microsoft® Windows® Server 2022: Essentials, Standard and Datacenter
	To run clustering, you need a Microsoft® Windows® Server 2016 Standard or Datacenter edition, Microsoft® Windows® Server 2019 Standard or Datacenter edition or a Microsoft® Windows® Server 2022 Standard or Datacenter edition
File system	For the Recording Storage Location, NTFS file system is recommended
SQL Versions	Microsoft SQL Server® 2016
	Microsoft SQL Server® 2017
	Microsoft SQL Server® 2019
	Microsoft SQL Server® 2022
Software	Microsoft®.NET 8 Runtime
	Microsoft®.NET 4.7.2 Framework
	DirectX 11 or newer
Hardware acceleration	Hardware acceleration with Intel® Quick Sync requires an Intel® CPU from 6th generation, supporting Intel Quick Sync and Intel® GPU enabled in BIOS.

System Requirements for running 120 cameras (720P, @25 FPS, 2 Mbit/s)

CPU	Intel® Core™ i3-6100 3.7 GHz
RAM	16 GB
Network	2 x 1 Gigabit Ethernet
Graphics Adapter	Intel® HD Graphics 530 (If Hardware Acceleration is required add graphics card fitting the requirements)
Hard Disk Space	256GB SSD for OS/VMS storage (Add additional storage depending on the number of days you want to save data)

System Requirements for running 700 cameras (720P, @25 FPS, 2 Mbit/s)

CPU	Intel® Xeon® E3-1515M V5 2.8 GHz
RAM	32 GB
Network	10 Gigabit Ethernet
Hard Disk Space	2 x 256 GB SSD RAID 1 for OS/VMS storage (Add additional storage depending on the number of days you want to save data)

MOBOTIX HUB Desk Client

Computer running MOBOTIX HUB Desk Client, Desk Client - Player and Video Wall

Name	Description
Operating system	Microsoft® Windows® 10 version 1903 or later
	Microsoft® Windows® 11 Pro
	Microsoft® Windows® 11 Enterprise
	Microsoft® Windows® Server 2019: Standard and Datacenter (version 1809)
	Microsoft® Windows® Server 2022: Standard and Datacenter
Software	Microsoft® .Net 4.7.2 Framework
	DirectX 11.0 or newer
Hardware acceleration	Hardware acceleration with Intel® Quick Sync requires an Intel® CPU from 6th generation, supporting Intel Quick Sync and Intel® GPU enabled in BIOS.
	Using Intel® Quick Sync on Intel® CPU 12th generation, requires at least driver version 31.0.101.3413 from Intel.
	Decoding with NVIDIA graphics card is supported with GPU capability version 6.x (Pascal) or newer.

MOBOTIX HUB Web Client

**Computer running MOBOTIX HUB
Web Client**

Name	Description
Browser	Microsoft Edge Chromium latest version
	Google Chrome™ latest version
	Mozilla® Firefox® latest version
	Safari® latest version

MOBOTIX HUB Mobile

Device running MOBOTIX HUB Mobile

Operating System	Android 10.0 or higher
------------------	------------------------

	iOS 15.0 or higher
--	--------------------

Network	3G/5G
---------	-------

	(4G or WiFi)*
--	---------------

*Required for using Direct Streaming

Server Specifications for Typical VMS Projects

Default Camera Settings

Setting	Value
Lens type	Single
Recording	Constant
Operating Hours	24
Days Operating	30
Codec	H.264
FPS	25
Motion/Event -Recording	100%
Image Complexity	Medium/Low
Resolution	HD 720
Data Rate (KBIT/SEC)	2000

System Requirement for 10 Cameras

Requirement	Value / Description
Total Storage	6.5 TB
Storage Per Server	6.5 TB
System Utilization	11%
Cameras Per Server	10

Camera Data Rate	20 Mbit/s
Smart Client Data Rate	2Mbit/s
Server	Husky IVO HE150D-12TB
Server Quantity	1
Form factor	Desktop small form factor
Processor Type	Intel(R) Pentium(R) Gold G7400
Operating System	Windows 10 IoT Enterprise 2021 - LTSC Value
Hard drive bays	1 x 3.5" internal
Total disk capacity	(1 x 12 TB) 12 TB
RAM	16 GB DDR4
Operating system drive	1 x 256 GB (SSD M.2 PCIe NVMe)

System Requirement for 50 Cameras

Requirement	Value / Description
Total Storage	32.4TB
Storage Per Server	16.2 TB
System Utilization	13%
Cameras Per Server	25
Camera Data Rate	50 Mbit/s
Smart Client Data Rate	2Mbit/s
Server	Husky IVO HE350T-24TB
Server Quantity	2
Form factor	Desktop tower factor
Processor Type	Intel(R) Core(TM) i3-12100
Operating System	Windows 10 IoT Enterprise 2021 - LTSC Value
Hard drive bays	2 x 3.5" internal
Total disk capacity	(2 x 12 TB) 24 TB

Server Specifications for Typical VMS Projects

System Requirement for 100 Cameras

RAM	32 GB DDR4
Operating system drive	1 x 256 GB (SSD M.2 PCIe NVMe)

System Requirement for 100 Cameras

Requirement	Value / Description
Total Storage	64.9TB
Storage Per Server	21.6TB
System Utilization	17%
Cameras Per Server	34
Camera Data Rate	66.7Mbit/s
Smart Client Data Rate	2Mbit/s
Server	Husky IVO HE350T-32TB
Server Quantity	3
Form factor	Desktop tower factor
Processor Type	Intel(R) Core(TM) i3-12100
Operating System	Windows 10 IoT Enterprise 2021 - LTSC Value
Hard drive bays	2 x 3.5" internal
Total disk capacity	(2 x 16 TB) 32 TB
RAM	32 GB DDR4
Operating system drive	1 x 256 GB (SSD M.2 PCIe NVMe)

System Requirement for 150 Cameras

Requirement	Value / Description
Total Storage	97.2 TB
Storage Per Server	24.3TB

System Utilization	19%
Cameras Per Server	38
Camera Data Rate	75Mbit/s
Smart Client Data Rate	2Mbit/s
Server	Husky IVO HE350T-32TB
Server Quantity	4
Form factor	Desktop tower factor
Processor Type	Intel(R) Core(TM) i3-12100
Operating System	Windows 10 IoT Enterprise 2021 - LTSC Value
Hard drive bays	2 x 3.5" internal
Total disk capacity	(2 x 16 TB) 32 TB
RAM	32 GB DDR4
Operating system drive	1 x 256 GB (SSD M.2 PCIe NVMe)

System Requirement for 300 Cameras

Requirement	Value / Description
Total Storage	194.4 TB
Storage Per Server	24.3 TB
System Utilization	19%
Cameras Per Server	38
Camera Data Rate	75Mbit/s
Smart Client Data Rate	2Mbit/s
Server	Husky IVO HE350T-32TB
Server Quantity	8
Form factor	Desktop tower factor
Processor Type	Intel(R) Core(TM) i3-12100
Operating System	Windows 10 IoT Enterprise 2021 - LTSC Value

Server Specifications for Typical VMS Projects

System Requirement for 1000 Cameras

Hard drive bays	2 x 3.5" internal
Total disk capacity	(2 x 16 TB) 32 TB
RAM	32 GB DDR4
Operating system drive	1 x 256 GB (SSD M.2 PCIe NVMe)

System Requirement for 1000 Cameras

Requirement	Value / Description
Total Storage	648 TB
Storage Per Server	25 TB
System Utilization	20%
Cameras Per Server	39
Camera Data Rate	76.9Mbit/s
Smart Client Data Rate	2Mbit/s
Server	Husky IVO HE350T-32TB
Server Quantity	26
Form factor	Desktop tower factor
Processor Type	Intel(R) Core(TM) i3-12100
Operating System	Windows 10 IoT Enterprise 2021 - LTSC Value
Hard drive bays	2 x 3.5" internal
Total disk capacity	(2 x 16 TB) 32 TB
RAM	32 GB DDR4
Operating system drive	1 x 256 GB (SSD M.2 PCIe NVMe)

