

Specification Sheet

XProtect[®] Rapid REVIEW 6.4

Available on June 20th, 2023



What's New in XProtect Rapid REVIEW 6.4

- **Wizard-based installer:** XProtect Rapid REVIEW can now be installed with a unified wizard. The new wizard lets you run the Check Prerequisites tool and install all of the following components from one place: PostgreSQL, RabbitMQ, Server, and Web Services. XProtect Rapid REVIEW wizard-based installer eliminates the complexity of manual deployment saving valuable time while reducing the possibility of human errors.
- **Camera replacement at your convenience:** The new XProtect Rapid REVIEW update gives autonomy back to users when it comes to replacing broken or defective cameras without needing extra licenses or assistance from Milestone Support teams. The new update allows XProtect Rapid REVIEW users to be more proactive and help avoid downtime, especially in critical installations.

Key Features

- **Case management:** Organize all video assets of an investigation in a single container, bookmark objects of interest, and summarize case findings (including all relevant exhibits) in an exportable report, while dynamically collaborating on cases with other users.
- **VIDEO SYNOPSIS®:** VIDEO SYNOPSIS solution simultaneously presents objects that have appeared at different times within the video. The result is a dramatically shorter video segment that fully preserves the viewer's ability to analyze the scene, enabling the review of hours of video in minutes and sometimes seconds.
- **Multi-camera search:** Powerful and advanced multi-camera search capabilities for all Rapid REVIEW search filters and Visual Layers.
- **Proximity identification:** Search for and identify the distance between individuals over time and location for compliance with physical distancing and contact tracing, as well as criminal investigations.
- **Face mask detection:** Forensically search and filter video to identify face mask usage.
- **Face recognition:** Accurate face recognition for rapidly pinpointing persons included or excluded in watchlists, based on images extracted from existing video or data uploads.
- **License plate recognition:** Differentiated license plate recognition, designed especially for "in the wild" surveillance scenarios and ease of operation in finding license plates through watchlists, existing video or data uploads.
- **Line crossing:** Detect, filter and count objects that cross a demarcation in a pre-defined direction to drive perimeter protection and directional object count.
- **Appearance similarity:** Instantly locate people, vehicles, and other items of interest by searching for objects with similar attributes.
- **Visual layers:** Create visual analytics for activity, dwell time, common paths, and background changes.
- **Filter tolerance:** Adjust tolerance levels to refine search results.
- **Density & speed control:** Increase or decrease the number and speed of events shown at once.
- **Sort control:** View events by relevance or by order of occurrence and easily zoom in on items of interest.

SEARCH FILTERS	
SOURCE	Limit objects to specific files
TIME RANGE	Limit the search criteria to specific time ranges
CLASS	<p>Class Categories: People, Two-Wheeled Vehicles, Other Vehicles, and Animals</p> <p>People: Man, Woman and Child</p> <p>Two-Wheeled Vehicle: Bicycle and Motorcycle</p> <p>Other Vehicles: Car, Pickup, Van, Truck, Bus, Train, Airplane, and Boat</p> <p>Illumination Changes: Lights On, Lights Off</p>
PERSON ATTRIBUTES	<p>Lower Wear: Long, Short, and by Color</p> <p>Upper Wear: Long Sleeves, Short Sleeves, and by Color</p> <p>Hats: No Hat, Hat</p> <p>Face Masks: No Mask, Mask</p> <p>Bags: No Bag, Backpacks, Handheld Bags</p>
COLOR	Identify objects according to any combination of Brown, Red, Orange, Yellow, Green, Lime, Cyan, Purple, Pink, White, Grey, and Black
APPEARANCE SIMILARITY	Identify people and vehicles with similar attributes
FACE RECOGNITION	<p>View All Faces: View all faces that were detected in a case</p> <p>Search by Face: View all faces that were detected in a case and search by face using external images, or images from video</p>
LINE CROSSING	Filter objects that cross a demarcation in a predefined direction
LICENSE PLATE RECOGNITION	<p>View All Plates: View all license plates detected in a scene</p> <p>Search by Plates: Search all license plates that were detected in a case and search using a watchlist of license plates, data import of license plate numbers, or existing plates from video</p>
PROXIMITY	Filter objects appearing below or above a user-specified distance
SIZE	Select objects based on their actual (real-life) size from a histogram of sizes relevant to a specific case
PATH	Identify objects traveling along one or more user-defined paths
AREA	Identify objects included or excluded within one or more user-defined 3- or 4-sided polygon areas
SPEED	Select objects based on their actual speed from a histogram of speeds relevant to a specific case
DWELL	Select objects dwelling for a certain a user-specified period or longer in a scene

TECHNICAL SPECIFICATIONS	
SUPPORTED RESOLUTION	Minimum CIF, Maximum unrestricted
SUPPORTED FRAME RATE (FPS)	All frame rates
SUPPORTED VIDEO FILES FORMAT	.AVI, .MKV, .MPEG4, .MOV, .WMV, .DVR, .ASF, .RT4, .DIVX, .264, .GE5, .TS, .3GP, .XBA (single stream and multi-stream), .MP4, .FLV
SUPPORTED CODECS	H.264, H.265/HEVC, MPEG-4, H.263 (H.265 is supported for selected cameras)
FACE RECOGNITION	Minimum Face Size: 24x24 pixels
SUPPORTED UI LANGUAGES	<p>Arabic, Brazilian Portuguese, Chinese Simplified, Chinese Traditional, Danish, Dutch, English, Finnish, French, German, Hebrew, Italian, Japanese, Korean, Latin Spanish, Thai, Turkish, Ukrainian, Vietnamese</p> <p><i>Please Note: During installation the default system language should be English. If the language of the OS is set to any other language than English, the installation may end with an error. The system language can be set to a preferred language after the installation.</i></p>

SYSTEM RECOMMENDATIONS

The server specification are determined by the video resolution, activity level and desired processing throughput capacity - which is measured by the number of video hours that can be processed in an hour.

SYSTEM RECOMMENDATION (MEDIUM TOWER BUILD)	
FORM FACTOR	Tower
CPU	Intel i7-10700K
MEMORY	64GB RAM
STORAGE	256GB OS SSD 480GB Mixed-use DB SSD* 8TB HDD
GPU	1 x RTX A2000
THROUGHPUT	Up to 23 hours per hour at 1080p, medium activity 8 hours per hour at 4K, medium activity

SYSTEM RECOMMENDATION (MEDIUM RACK BUILD)	
FORM FACTOR	1U
CPU	Intel i9-9900K
MEMORY	64GB RAM
STORAGE	256GB OS SSD 480GB Mixed-use DB SSD* 8TB HDD
GPU	1 x RTX A2000
THROUGHPUT	Up to 23 hours per hour at 1080p, medium activity 8 hours per hour at 4K, medium activity

SYSTEM RECOMMENDATION (LARGE BUILD)	
FORM FACTOR	2U
CPU	2x Xeon Silver 4215R
MEMORY	128GB RAM
STORAGE	480GB OS SSD 1TB Mixed-use DB SSD* 2 x 8TB HDD
GPU	2 x RTX A4000
THROUGHPUT	Up to 46 hours per hour at 1080p, medium activity 17 hours per hour at 4K, medium activity

SYSTEM RECOMMENDATION (EXTRA LARGE BUILD)	
FORM FACTOR	2U
CPU	2 x Xeon Gold 6248R
MEMORY	256GB RAM
STORAGE	480GB OS SSD 2TB Mixed-use DB SSD* 4 x 8TB HDD
GPU	4 x RTX A4000
THROUGHPUT	Up to 92 hours per hour at 1080p, medium activity 34 hours per hour at 4K, medium activity

*Mixed Use SSDs that need a balance of strong Read and Write performance

CERTIFIED AND SUPPORTED GPUS		
GPU	SUPPORTED	CERTIFIED
Ampere A2	√	√
Ampere A10	√	-
Ampere A16	√	-
Ampere A40	√	√
Ampere RTX 3070	√	-
Ampere RTX 3080	√	-
Ampere RTX 3090	√	-
Ampere RTX A2000	√	√
Ampere RTX A4000	√	√
Ampere RTX A4500	√	-
Ampere RTX A5000	√	-
Ampere RTX A6000	√	-
GeForce GTX1060*	√	-
GeForce GTX1070*	√	-
GeForce GTX1080*	√	-
GeForce GTX1080Ti*	√	-
GeForce GTX1660 Super*	√	-

GeForce RTX2070*	✓	✓
QUADRO P4000	✓	✓
QUADRO P5000	✓	-
QUADRO RTX5000	✓	-
QUADRO RTX6000	✓	-
QUADRO RTX8000	✓	-
TESLA P4	✓	✓
TESLA T4	✓	✓
TESLA P100	✓	-
TESLA V100	✓	-

**Please note that GeForce GPUs are consumer grade cards, and may not be suited for high load production environments*

NOTE

- A30 and A100 Ampere GPUs are not supported
- Intel, AMD or any other non-NVIDIA GPUs are not supported at this time
- It is not recommended to use more than one type of GPU on the same machine
- For specification related questions, please consult a Milestone presales member

LICENSING

XProtect Rapid REVIEW can be used with an unlimited number of device licenses. However, please consult Milestone for installations that require more than 200 XProtect Rapid REVIEW device licenses to ensure the product fits the needs. Milestone recommends purchasing the same amount of XProtect Rapid REVIEW device licenses as Milestone XProtect device licenses on the underlying VMS product. However, to ensure complete camera coverage for comprehensive forensic video review you may need to purchase additional XProtect Rapid REVIEW device licenses to cover all enabled video channels in XProtect.



Milestone Systems is a leading provider of open platform video management software; technology that helps the world see how to ensure safety, protect assets and increase business efficiency. Milestone enables an open platform community that drives collaboration and innovation in the development and use of network video technology, with reliable and scalable solutions that are proven in more than 500,000 sites worldwide. Founded in 1998, Milestone is a stand-alone company in the Canon Group.