

asustor

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Surveillance Center



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Surveillance Center



INNOVATION MAKES A DIFFERENCE



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What is Surveillance Center?

Surveillance Center is a powerful add-on App on ASUSTOR NAS devices.

After installing Surveillance Center from App Central, an ASUSTOR NAS can be instantly turned into a 24/7 non-stop high resolution security surveillance system. Furthermore, Surveillance Center is compatible with popular Web browsers and mobile devices, allowing you to monitor and protect your most valued assets from anywhere and at any time.



Centralized Surveillance Software - CMS Lite

A Solution designed for systems with multiple servers spread across different locations, CMS Lite allows surveillance professionals to have more flexibility and convenience when monitoring and playing back video.

- Connect up to 128 IP Cameras/ 32 NASes
- Supports configuration of live view and recording playback permissions

Live View

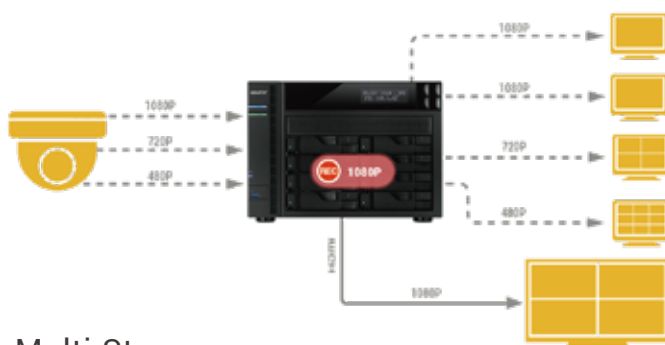


Cross-Platform Browsing

All users can use Surveillance Center from the comfort of a familiar operating system via Microsoft Edge*, Internet Explorer*, Chrome*, FireFox or Safari. Surveillance Center not only provides real-time surveillance monitoring and playback of recordings for multiple

camera channels, but also significantly decreases the resources needed to operate Surveillance Center providing you with an optimal and seamless experience.

Note: Microsoft Edge, Internet Explorer, Chrome is only supported on Windows operating system



Multi-Stream

You want high resolution recordings, but does choppy video from surveillance feeds annoy you? Surveillance Center now supports 3 independent video streaming modes*, allowing administrators to configure default resolutions for recordings and viewing feeds remotely. Users can select appropriate resolutions based on network bandwidth and the number of channels that they are viewing, optimizing video streaming under different network bandwidth limitations.

*Number may vary according to camera brand.

Simple and Intuitive On-Screen Controls

A variety of real-time on-screen controls and functions on the Surveillance Center interface allow you to control PTZ camera movement, configure camera settings, start recordings and take snapshots of camera feeds. In addition to providing a smooth and intuitive control experience, the efficiency of operation is also significantly increased.

Two-Way Communication

Built-in microphones and speakers allow cameras to provide two-way audio. In addition to monitoring the audio in a particular area, you can also make announcements and converse in real-time with people in the area surveilled by the camera.



Quickly Grasp the Situation in Each and Every Corner

In large scale surveillance environments, electronic maps provide a visual method for administrators to get an overall view of all IP cameras in deployment, allowing them to quickly get a handle on the current situation. When an event occurs, it will instantly appear on the map interface, giving administrators the ability to see the location of the event and instantly view real-time video feeds from the location. Administrators can then decide on the type of action to take, effectively limiting the potential damage that could happen at home, in the workplace or to other assets.

- Interactive electronic maps: when an alarm event occurs, the associated IP camera or alarm input device will turn red on the electronic map, indicating the location of the event.
- Users can click on IP cameras on the map interface in order to view their live feeds.
- Users can upload maps and intuitively configure the positioning and angle of cameras using “drag and drop”.
- Electronic map link function: conveniently switch to related maps.

Camera Patrolling

The patrol paths function allows you to quickly create up to 5 different camera patrol paths. In addition to allowing cameras to automatically move (PTZ) through the preset positions, you can also configure the time the camera will stop at each position.



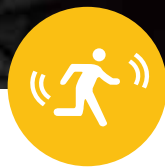
360 Degree Fisheye Camera Image Dewarping

Surveillance Center’s software image dewarping function supports multiple types of image restoration for fisheye cameras. This gives users the comprehensive surveillance without blind spots without having to use a multitude of cameras.

Safety Enhanced Connection

The secure transfer of surveillance feeds is seen as a critical digital asset. Using a secure connection can ensure the privacy and security of surveillance feeds transmissions. ASUSTOR NAS supports HTTPS connections allowing users to log into Surveillance Center and view surveillance feeds via encrypted connections no matter if they are using Microsoft Edge, Internet Explorer, Chrome or FireFox.

Recording & Playback



Record Only When You Need to

Surveillance Center offers you a variety of recording options. No matter if you need scheduled continuous recording or recording only when certain events occur, Surveillance Center is sure to satisfy your needs. Surveillance Center's various recording modes are listed below:

Manual Recording:

While viewing a live feed, you can click on the record button at any time to begin or stop recording. In the event that you do not stop your recording, Surveillance Center will record until your designated recording quota has been reached.

Continuous or Scheduled Recording:

Whether you require 24/7 continuous recording or recording only during a specific time, Surveillance Center can get the job done ensuring that you never miss any critical moments.

Motion Trigger Recording:

In the event that any motion is detected in the surveilled environment, Surveillance Center will immediately begin recording, allowing you to save significant space on your hard disks and ensuring that you never miss any critical moments.

Alarm Trigger Recording:

Triggering recording via a camera's alarm mechanism allows you to precisely record all critical events. Not only does this save space on your hard disks but also lowers the amount of reading and writing on your hard disks, prolonging their life.

Motion Trigger and Alarm Trigger Recording:

This mode combines motion trigger and alarm trigger recording. If either mode is triggered, recording will begin immediately. This is a comprehensive recording mode that ensures you will never miss any critical moments.

A Breeze to Use

Worried about a complicated playback interface?

Surveillance Center will change your mind! With its intuitive time axis and flexible switching between synchronous and asynchronous playback, Surveillance Center allows you to easily view recordings from the time period you require.



Smart Search (IVA)

Having problems finding critical recordings from amongst mountains of recording data? The smart search function provided by Surveillance Center helps you to search for clues from amongst all recorded videos in order to help you quickly and efficiently find critical events.



Motion detection

Detects whether or not there is motion in a specified area.



Foreign object

Detects whether or not a foreign object appears in a specified area.



Missing object

Detects whether or not an object has been moved or removed from a specified area.



More Agile Searches of Recording Files

The 30 second fast-forward and 10 second rewind playback functions allow you to conveniently find the recording files you need.



Optimized Exportation of Recording Files

The new function allowing recordings to be exported to local folders on the NAS significantly enhances the speed of the exporting process.



Local Display

Who's That at the Door? Turn on Your TV to Find Out!

Surveillance Center on ASUSTOR Portal provides real-time surveillance feeds, allowing ASUSTOR NAS devices to output high resolution video from IP cameras. Users need only connect their NAS to an HD display via HDMI to instantly begin monitoring all of their surveillance feeds. Furthermore, in addition to simultaneously viewing 4 channels of video feeds, users will be able to control Surveillance Center using the ASUSTOR Remote, AiRemote mobile app and USB mouse and keyboard.

- First in the world to support HDMI local output
- Simultaneously view 4 channels of high definition video feeds
- Supports switching between single and 4 feed display as well as automatic cycling between feeds

* Display performance may vary between different IP camera models and be affected by video content, network bandwidth, recording settings and other applications running on the NAS.



Enhanced Local Display

ASUSTOR's PC-less surveillance solution has been enhanced again. In addition to being able to view live camera feeds on your TV, you can also directly search and playback specific recording files via the timeline or calendar. What's more, you can now hear live audio as well!

Camera & Management

Installation in 5 Easy Steps

ASUSTOR's Surveillance Center provides a quick installation wizard that helps you find cameras in your local area network, and complete the appropriate resolution, recording and system settings. Only 5 easy steps are needed, allowing anyone to effortlessly complete installation and minimizing the extra costs and time often associated with less user friendly systems.

5 Steps 
.....



Supports a Wide Variety of Cameras

ASUSTOR Surveillance Center supports a wide variety of different camera models, allowing you to choose suitable cameras based on functional needs and cost considerations.

900+

Supports 900+ IP Cameras

Surveillance Center is currently compatible with over 900+ IP camera models from world renowned brands. Furthermore, ASUSTOR releases multiple updates each year that add more compatible cameras providing for even more flexible options.

ONVIF
Profile S

ONVIF Profile S Compliant

ONVIF Profile S certification allows Surveillance Center to further expand compatibility for network IP cameras, giving system integrators and home users more flexibility and choice when creating their surveillance system.

Generic
RTSP

Generic Camera Support

Surveillance Center can now receive real-time video streams from cameras via the Generic RTSP function that is supported by the majority of all cameras. This makes basic real-time video streaming and recording with almost any camera a breeze.

Automated Event Action Rules

Automated event action rules allow administrators to customize alarm handling rules (SOP). When an event occurs, the system can select different measures to handle the situation based on the type of event that occurred or the time the event occurred. These different measures include actively sending out email/SMS notifications to different groups, smartphone push notifications, activating multiple cameras to begin recording, assigning cameras to patrol a specific area or activating other external devices* providing automated and intelligent event handling.

* When an event occurs, event actions can notify other external devices via http commands (CGI/URL).



Event Linking

Event handling rules allows the system to automatically execute a specified action when an event occurs, minimizing any manual work that has to be done. For example, when a backyard camera detects motion, all cameras along the perimeter of a house can automatically begin to record. Or when a window is opened, PTZ cameras can immediately begin to patrol.



Event Notifications

When cameras receive specified events, Surveillance Center can immediately send email/SMS or push notifications to selected individuals.



Linking to External Devices

Support for external event settings allows other systems (e.g., door security systems) to trigger events in the Surveillance Center system. Surveillance Center can also receive events and proceed to notify external devices.

Immediate Notification

When disruptions occur, you'll know immediately. You can use Surveillance Center's Event Management function to keep you informed of critical events. Whether these events are an alarm trigger, motion trigger or a disconnected camera, you can configure Surveillance Center to send you notification immediately via email or SMS.

Camera & Management

Unlimited Cold backup solution

By scheduling backups of recording files to MyArchive hard disks, you can free up storage space for online recordings. When you need to play back recordings, you can mount recordings from MyArchive hard disks to Surveillance Center and then quickly search and play back the recordings you need.



Flexibly Enable and Disable Online Cameras

Sometimes you may not want your cameras to be turned on. The camera enable and disable function allows you to disable cameras at any time. When you need your cameras to begin surveillance again, you can enable them instantly.



All New Log In Screen

System administrators can customize the dedicated Surveillance Center login screen, allowing all users to directly log in to Surveillance Center via an individual login page for quick and convenient access.

Series	Maximum IP cam	Local display
AS10	8	-
AS2	8	-
AS2TE/AS3	8	✓
AS6	16	✓
AS40	16	-
AS31/32	25	✓
AS50/51	30	✓
AS63/64	36	✓
AS7	64	✓

Camera Expansion with Add-On Licenses

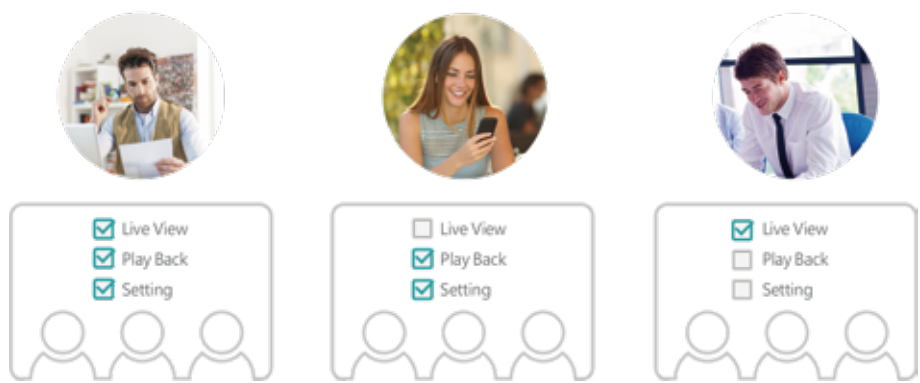
Need to monitor more areas? No problem! In addition to the 4 free camera licenses provided by default you can also use ASUSTOR's flexible add-on camera licenses to add camera channels, allowing you to easily expand the scope of your surveillance system. What's more, you can also freely transfer camera licenses among different ASUSTOR devices. 2 different camera license packages are offered: single channel and 4 channels

Note: The maximum number of camera channels is determined by the test results of each channel (based on 720P (1280x720) · 30 FPS · H.264). Actual performance may differ according to camera settings and NAS load conditions.



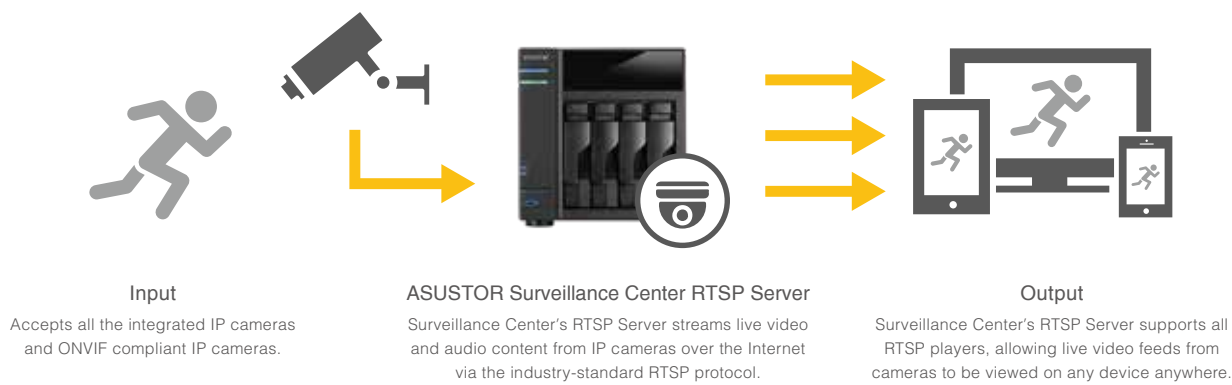
Role-Based Access Control

Surveillance Center provides role based access control, allowing administrators to create roles for users according to their responsibilities, administrative tasks that they are able to execute, and the camera feed playback and administrative functions available to them. These roles can then be assigned to users based on their responsibilities and administrative tasks that they are able to execute, significantly increasing management convenience and flexibility.



RTSP Streaming Server

The all-new RTSP Streaming Server, gives system integrators the ability to conveniently integrate Surveillance Center with 3rd party equipment, allowing any device supporting RTSP to receive real-time video feeds from cameras on the network managed by Surveillance Center. Furthermore, RTSP streaming server also allows users to manage the number of connections and remove any malicious connections.



Mobile Apps

Stay Connected to Everything You Care About with AiSecure

The AiSecure dedicated mobile app allows you to easily keep an eye on everything that is happening at home. In addition to monitoring live views of particular locations, AiSecure also features instant push notifications that can be sent to your mobile device when specified events occur, allowing you to grasp all the latest developments in the palm of your hand.



Peace of Mind for When You're Not There

Surveillance Center provides you with comprehensive event notifications. When a specified event occurs, it will automatically notify you via Email, SMS or AiSecure on your mobile device, allowing you to take immediate action. This reduces any possible damage to your assets at home or in the workplace.



Simple to Set Up

AiSecure dramatically simplifies the connection process to your surveillance feeds.* After enabling Cloud Connect on your NAS, you will be able to use your dedicated Cloud ID to connect to Surveillance Center, allowing you to easily monitor all the important things in your life from any corner of the world.

*AiSecure provides 3 different connection methods:

1. Connecting via Cloud ID.
2. Connecting via Auto Discovery to ASUSTOR devices on the same network.
3. Connecting via IP/Hostname.



Specifications

Overview

- Supports more than 900 IP cameras from world renowned brands
- ONVIF™ Profile S (2.4.1) compliant
- Wide compression technology support: MJPEG, MPEG-4, H.264
- 5 step quick install wizard
- 4 free IP camera channels

Live view

- Up to 64 channels in 720p on single live view display (4 Free Channels)
- Camera views offer 1/4/9/16/25/36/49/64 & 5+1/7+1/2+8/1+12 channel & sequential and full screen display modes
- On-screen camera controls including camera PTZ, manual recordings, take snapshots, configure camera settings, stream selection and open Maps
- On-screen controls to activate audio outputs (2way audio) of camera
- Supported Browsers: Windows Microsoft Edge, Internet Explorer, Firefox, Chrome, Mac Safari, Mac Firefox
- Interactive Maps provide the operator with a comprehensive overview of cameras of an entire surveillance installation
- Supports multiple types of image dewarping for fisheye cameras. (For Windows client)

Remote Playback

- Calendar and timeline search method for quick access to recorded footage
- Up to 4 channels of synchronous and non-synchronous playback with audio
- Playback controls include pause, stop, previous recording, next recording, fast forward, slow motion, and digital zoom in/out
- Frame by frame playback support
- Snapshot support
- Intelligence video analysis including motion detection, missing object and foreign object.
- Supports 30 second fast-forward and 10 second rewind playback.
- Export recordings to client PC and NAS share folders as MKV files

Recording

- Recording modes include manual, continuous, motion detection, alarm input, customized, and action rule
- Configurable pre-recording & post-recording time
- Recording formats: MKV

CMS Lite (Central Management System)

- Connect up to 128 IP Cameras/ 32 NASes on a single portal
- Supports configuration of live view and recording playback permissions

Management

- Support up to 64 cameras on a single NVR
- Support Multi-Stream (upto 3 independent video streaming modes)
- Event notification supports SMS, E-mail, and mobile push notification
- Automated event action rules
- Role-based access control
- RTSP streaming server (video and audio)
- Camera expansion with add-on licenses package
- Two different camera license packages are offered: single channel and 4 channels.
- HTTPS secured connection (For Windows client)
- Flexible recording quotas
- Self-Defined Recording File Save Location
- Dedicated login portal
- Flexibly power online cameras on and off

Local display

- Simultaneously view 4 channels of high definition video feeds
- Calendar and timeline search method for quick access to recorded footage
- Supports switching between single and 4 feed display as well as automatic cycling between feeds

Mobile App

- View surveillance feeds from all cameras and up to 4 different feeds at once
- Take snapshots of surveillance feeds
- Interface supports the pinch-to-zoom gesture, allowing you to easily view in greater detail
- Control PTZ functions on cameras
- Review previously recorded video, while using the time axis to fast-forward or rewind video content
- Quickly switch between monitoring Surveillance Center on different NAS devices
- Get a handle on unexpected events with instant push notifications

Minimum PC Client Requirements

- CPU: Intel® i5/i7 CPU or above
- RAM: DDR3 4G or above
- Operating system: Windows 7 and onward, Mac OS X
- Windows browsers: Firefox 32-bit, IE 11 32-bit onwards, Microsoft Edge, Chrome
- Display resolution: 1280 x 800 pixels or higher for best user experience
- Mac browsers: Safari 7.0, Firefox
- Network interface: Gigabit x1
- Independent graphics card is highly recommend

Hardware Specifications

Home






	 New	 New	 New	 New	 New	 New
Processor	Marvell ARMADA-385 1GHz Dual-Core Processor		Intel Celeron 1.6GHz Dual-Core Processor (burst up to 2.08~2.48GHz)	Intel Celeron 1.6GHz Quad Core Processor (burst up to 2.24GHz)	Marvell Armada A7020 Cortex A72 1.6GHz Dual-Core Processor	
Memory	512 MB DDR3 (non-upgradeable)		2GB DDR3L (non-upgradeable)		2GB DDR4-2400 (non-upgradeable)	
Internal Disk *	2 x SATA3 6Gb/s; 3.5" HDD	4 x SATA3 6Gb/s; 3.5" HDD	2 x SATA3 6Gb/s; 3.5" HDD	4 x SATA3 6Gb/s; 3.5" HDD	2x (2.5" / 3.5" SATA II/III or SSD)	4x (2.5" / 3.5" SATA II/III or SSD)
External Device Interface	2 x USB 3.0 (Front x1 ; Rear x1)		3 x USB 3.0 (Front x1 ; Rear x2)		2 x USB 3.0 (Front x1 ; Rear x2)	
LAN Port	1 x Gigabit		2 x Gigabit	2 x Gigabit	2 x Gigabit, 1 x 10GbE	
Dimensions (HxWxD)	165 x 102 x 218 mm	165 x 164 x 218 mm	165 x 102 x 218 mm	165 x 164 x 218 mm	170 x 114 x 230 mm	174 x 170 x 230 mm
Weight	0.99 kg / 2.18 lb	1.5 kg / 3.3 lb	1.17 kg / 2.58 lb	1.6 kg / 3.53 lb	1.6 kg / 3.53 lbs	2.2 kg / 4.85 lbs
Power	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W
Operation	13.2 W	24.4 W	13.7 W	27 W	-	-
Disk Hibernation	6.6 W	11.5 W	7.47 W	11.4 W	-	-
Sleep Mode (S3)	No Sleep Mode	No Sleep Mode	0.69 W	0.79 W	No Sleep Mode	No Sleep Mode
Volume Type	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10
HD Display	-		1 x HDMI 1.4b		-	
Infrared Receiver	-		Yes		-	
Audio Output	-		-		-	
Disk Tray Lock	No HDD Tray		-		-	
LCD Panel	-		-		-	
Maximum IP Cam	Default: 4, Max: 8		Default: 4, Max: 25		Default: 4, Max: 16	

Power User / SOHO / SMB

				
Processor	Intel® Celeron 1.6 GHz Dual-Core Processor (burst up to 2.08~2.48 GHz)		Intel® Celeron 1.6 GHz Quad Core Processor (burst up to 2.08~2.24 GHz)	
Memory	2GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)		4GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)	
Internal Disk *	2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
External Device Interface	3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB2.0, 2 x eSATA		3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB2.0, 2 x eSATA	
LAN Port	2 x Gigabit		2 x Gigabit	
Dimensions (HxWxD)	163.5 x 108 x 230 mm	185.5 x 170 x 230 mm	163.5 x 108 x 230 mm	185.5 x 170 x 230 mm
Weight	2 kg / 4.41 lb	2.9 kg / 6.39 lb	2 kg / 4.41 lb	2.9 kg / 6.39 lb
Power	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W
Operation	16.6 W	27.5 W	16.6 W	27.5 W
Disk Hibernation	9.5 W	13.6 W	9.5 W	13.6 W
Sleep Mode (S3)	0.96 W	0.95 W	0.96 W	0.95 W
Volume Type	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare
HD Display	1 x HDMI 1.4b		1 x HDMI 1.4b	
Infrared Receiver	Yes		Yes	
Audio Output	1 x S / PDIF		1 x S / PDIF	
Disk Tray Lock	-		Yes	
LCD Panel	-		-	Yes
Maximum IP Cam	Default: 4, Max: 36		Default: 4, Max: 36	

Power User / SOHO / SMB





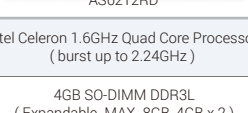
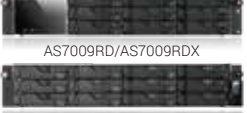
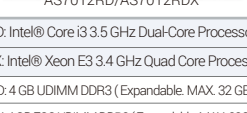
Expansion Unit

	 AS6208T		 AS6210T	 AS6302T	 AS6404T	 AS6004U
Processor	Intel® Celeron 1.6 GHz Quad Core Processor (burst up to 2.24 GHz)			Intel® Celeron 2.0 GHz Dual-Core Processor (burst up to 2.5 GHz)	Intel® Celeron 1.5 GHz Quad Core Processor (burst up to 2.3 GHz)	External Ports USB 3.0 Type B
Memory	4GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)			2GB DDR3L (Expandable. MAX. 8GB, 4GB x 2)	8GB DDR3L (Expandable. MAX. 8GB, 4GB x 2)	Maximum Internal Raw Capacity 40 TB (10TB HDD x 4)
Internal Disk*	8 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	10 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	Internal Disk* 4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
External Device Interface	3 x USB 3.0 (Front x1; Rear x2), 2 x USB2.0, 2 x eSATA			3 x USB 3.0 Type A (Front x1; Rear x2), 1 x USB3.0 Type C		Dimensions (HxWxD) 185.5 x 170 x 230 mm
LAN Port	4 x Gigabit			2 x Gigabit (Wake On Wan)		Weight 2.7 kg / 5.95 lbs
Dimensions (HxWxD)	215.5 x 293 x 230 mm			163.5 x 108 x 230 mm	185.5 x 170 x 230 mm	Disk Tray Lock Yes
Weight	6.2 kg / 13.67 lbs	6.4 kg / 14.1 lbs		2 kg / 4.41 lb	2.9 kg / 6.39 lb	Front Panel LED Power, Status, Link, Alert, HDD
Power	Internal Power Supply: 250 W			External Power Adapter: 65 W	External Power Adapter: 90 W	Power Supply External Power Adapter: 90W
Operation	59.5 W	68.3 W		13.8 W	24 W	Volume Type Single, JBOD, RAID 0/1/5/6/10, RAID 1/5+Hot Spare
Disk Hibernation	31.2 W	34.4 W		7.2 W	11.2 W	
Sleep Mode (S3)	1.5 W	1.5 W		0.34 W	0.44 W	
Volume Type	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare			Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare	
HD Display	1 x HDMI 1.4b			1 x HDMI 2.0		
Infrared Receiver	Yes			Yes		
Audio Output	1 x S / PDIF			1 x S / PDIF		
Disk Tray Lock	Yes			-	Yes	
LCD Panel	Yes			-	Yes	
Service LED	-			-		
Maximum IP Cam	Default: 4, Max: 36			Default: 4, Max: 36		

*Must be Used in Combination with ADM 3.0 or above

*Disk not included. Check www.asustor.com for compatible disk models.

Enterprise

	 AS7004T	 AS7008T	 AS7010T	 AS6204RS/AS6204RD  AS6212RD	 AS7009RD/AS7009RDX  AS7012RD/AS7012RDX
Processor	Intel® Core i3 3.5 GHz Dual-Core Processor	Intel® Core i5 3.0 GHz Quad Core Processor	Intel® Core i3 3.5 GHz Dual-Core Processor	Intel® Core i5 3.0 GHz Quad Core Processor	Intel Celeron 1.6GHz Quad Core Processor (burst up to 2.24GHz)
Memory	2GB SO-DIMM DDR3 (Expandable. MAX. 16GB)	8GB SO-DIMM DDR3 (Expandable. MAX. 16GB)	2GB SO-DIMM DDR3 (Expandable. MAX. 16GB)	2GB SO-DIMM DDR3 (Expandable. MAX. 16GB)	4GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)
Internal Disk*	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	8 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	10 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	12 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
External Device Interface	3 x USB 3.0 (Front x1; Rear x2), 2 x USB 2.0, 2 x eSATA	3 x USB 3.0 (Front x1; Rear x2), 2 x USB 2.0, 2 x eSATA		4 x USB 3.0	4 x USB 3.0, 2 x eSATA
LAN Port	2 x Gigabit	2 x Gigabit		4 x Gigabit	4 x Gigabit
Expansion Slot	-	1 x for optional expansion 10-GbE card		-	2 x for optional expansion 10-GbE / SAS card
Dimensions (HxWxD)	185.5 x 170 x 230 mm	215.5 x 293 x 230 mm		44 x 439 x 515 mm	88 x 439 x 535 mm
Weight	3.9 kg / 8.6 lb	7.2 kg / 15.87 lb	7.4 kg / 16.31 lb	7.65 kg / 16.87 lb	13.6kg / 29.98lb
Power	Internal Power Supply: 250 W	Internal Power Supply: 350 W		Internal Power Supply: 250 W	Internal Power Supply: 350 W
Operation	39.1 W	80.3 W	99.2 W	35.5 W	103 W
Disk Hibernation	29.4 W	43.7 W	54.4 W	21.9 W	53.9 W
Sleep Mode (S3)	1.8 W	1.97 W	1.97 W	1.5 W	4.09 W
Volume Type	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare		Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare
HD Display	1 x HDMI 1.4a	1 x HDMI 1.4a		1 x HDMI 1.4b	1 x HDMI 1.4a, 1 x VGA
Infrared Receiver	Yes	Yes		-	-
Audio Output	1 x S / PDIF	1 x S / PDIF		-	-
Service LED	-	-		Yes	Yes
Redundant Power Supply	-	-		-	Yes
Disk Tray Lock	Yes	Yes		Yes	Yes
LCD Panel	Yes	Yes		-	-
Maximum IP Cam	Default: 4, Max: 64	Default: 4, Max: 64		Default: 4, Max: 36	Default: 4, Max: 64

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