

asustor

Surveillance Center

asustor

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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.

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

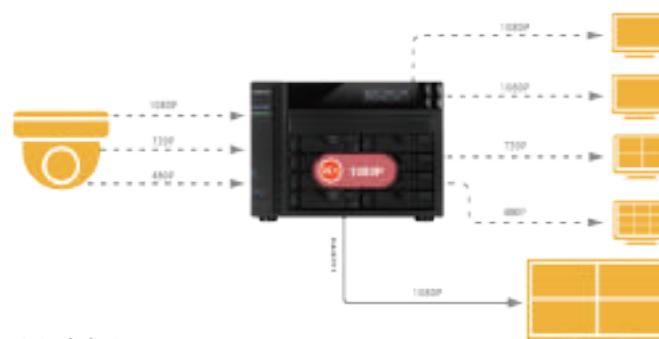
camera channels, but also significantly decreases the resources needed to operate Surveillance Center providing you with an optimal and seamless experience.

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



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.



Multi-Stream

Simple and intuitive on-screen controls solution recordings but worried about choppy video when viewing surveillance feeds remotely? 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.

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.

> Axis > Hikvision > Panasonic

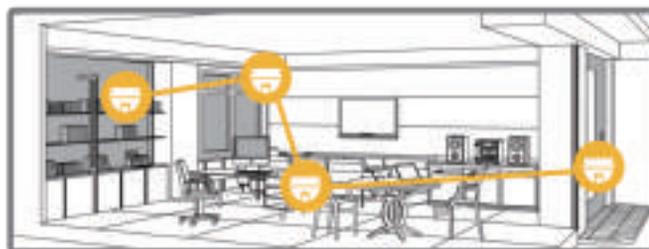
Camera Patrolling

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.



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.



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.

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.

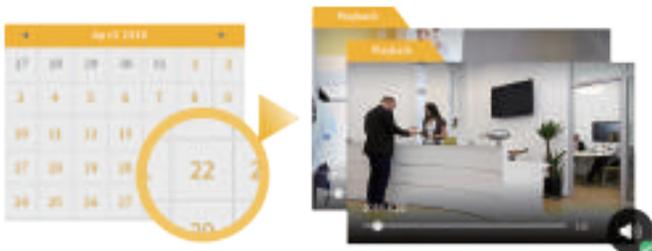
Local Display

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 
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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.

700+

Supports 700+ IP Cameras

Surveillance Center is currently compatible with over 700+ 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.

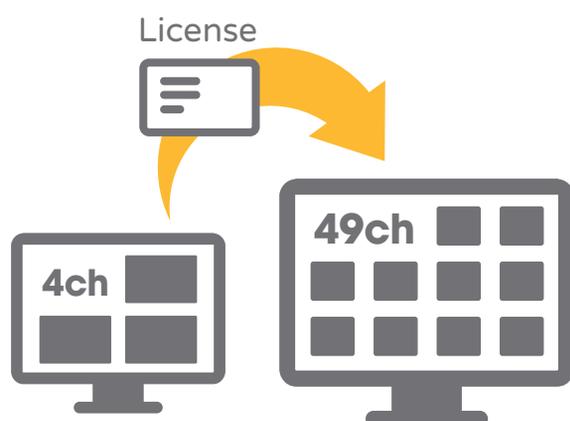


All New Log In Screen

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.

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.



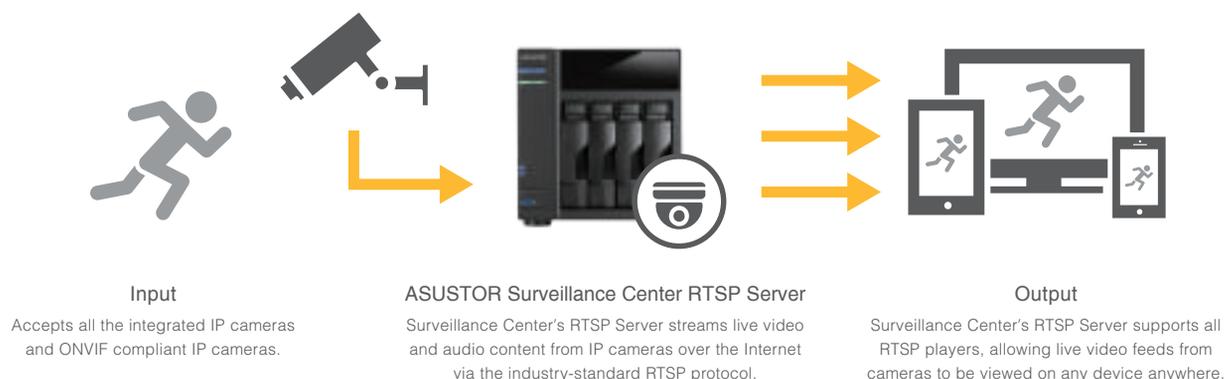
Camera Expansion with Add-On Licenses

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.

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 700 IP cameras from 32 different manufacturers
- 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 49 channels in 720p on single live view display (4 Free Channels)
- Camera views offer 1/4/9/16/25/36/49& 5+1/7+1/2+8 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, Mac Safari, Mac Firefox
- Interactive Maps provide the operator with a comprehensive overview of cameras of an entire surveillance installation

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.
- Export recordings to client PC 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

Management

- Support up to 49 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

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 (excluding Microsoft Edge)
- 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