

**3D-Plugin Brief**  
Uses Client-Only

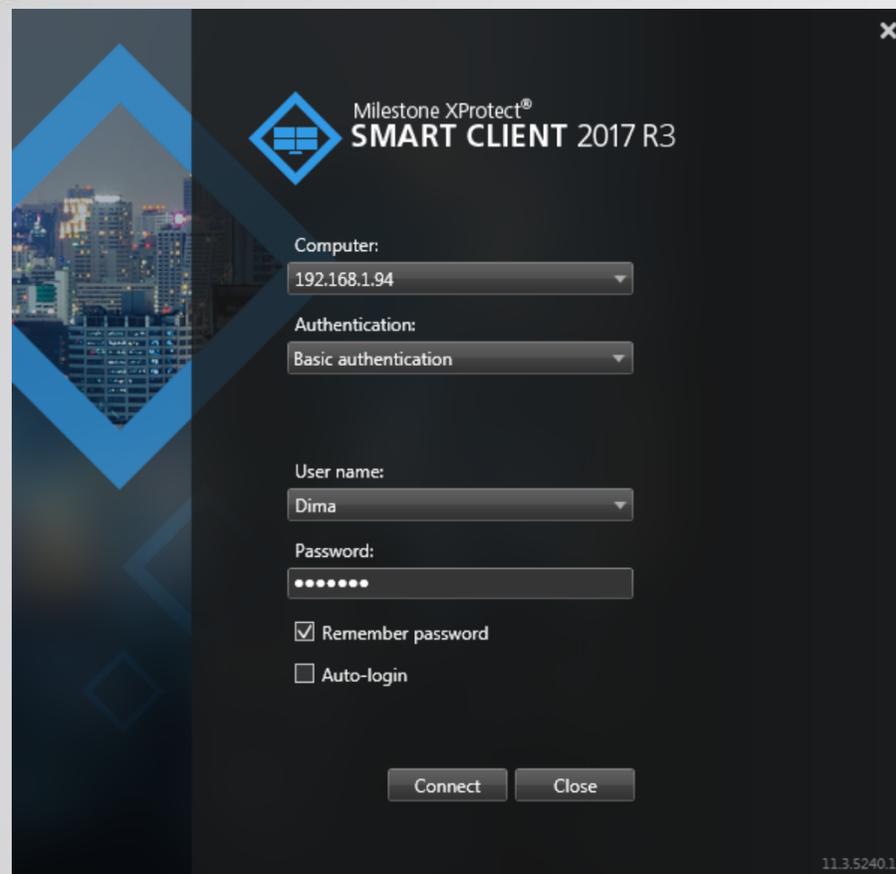


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**I-IoT & OT Visualization Solution for Intelligent World**



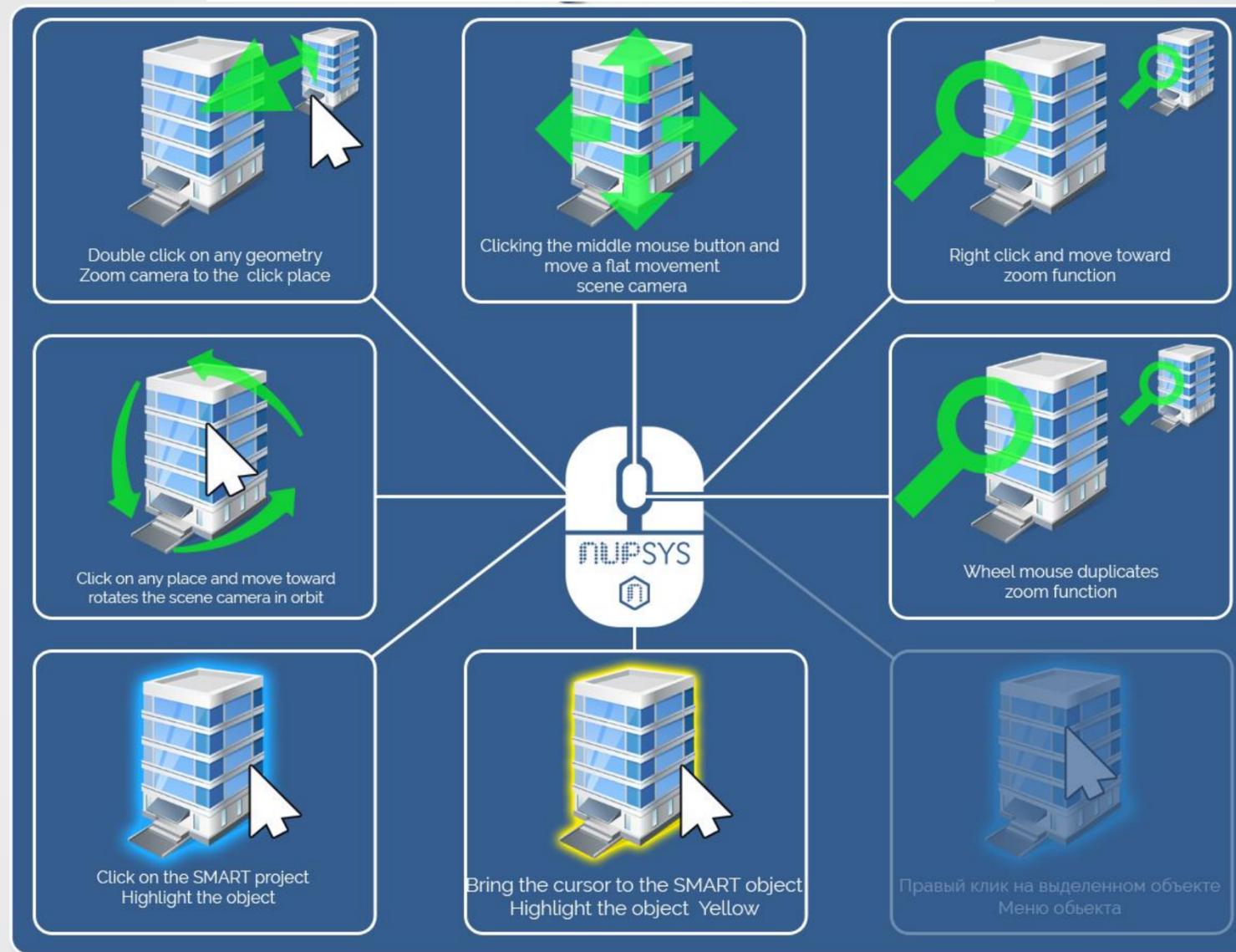
## Login to 3D-Plugin



Here you can enter the login information for nuSIM.

After entering, you can work For the next entries, the user name and server data will be saved

## Navigation in 3D-Plugin



Navigation in 3D is performed with the mouse, in the diagram you can see the main controls in the 3d window of nuSIM Milestone

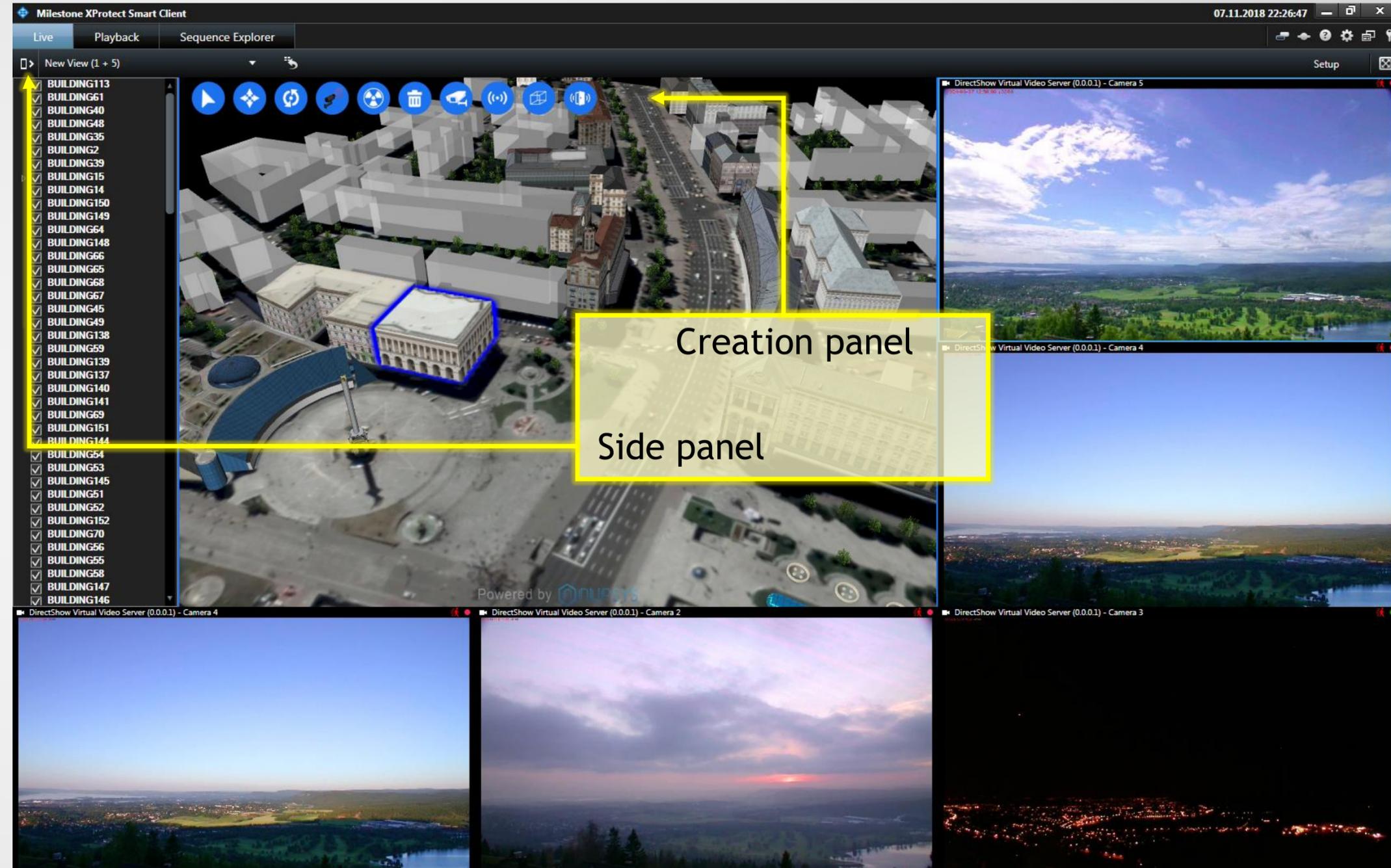
Switching between cameras, buildings, floors and sensors

Remember nuSIM Milestone has two types of navigation, if you are having difficulty navigating with the 3D window, you can use the navigation of the side menu

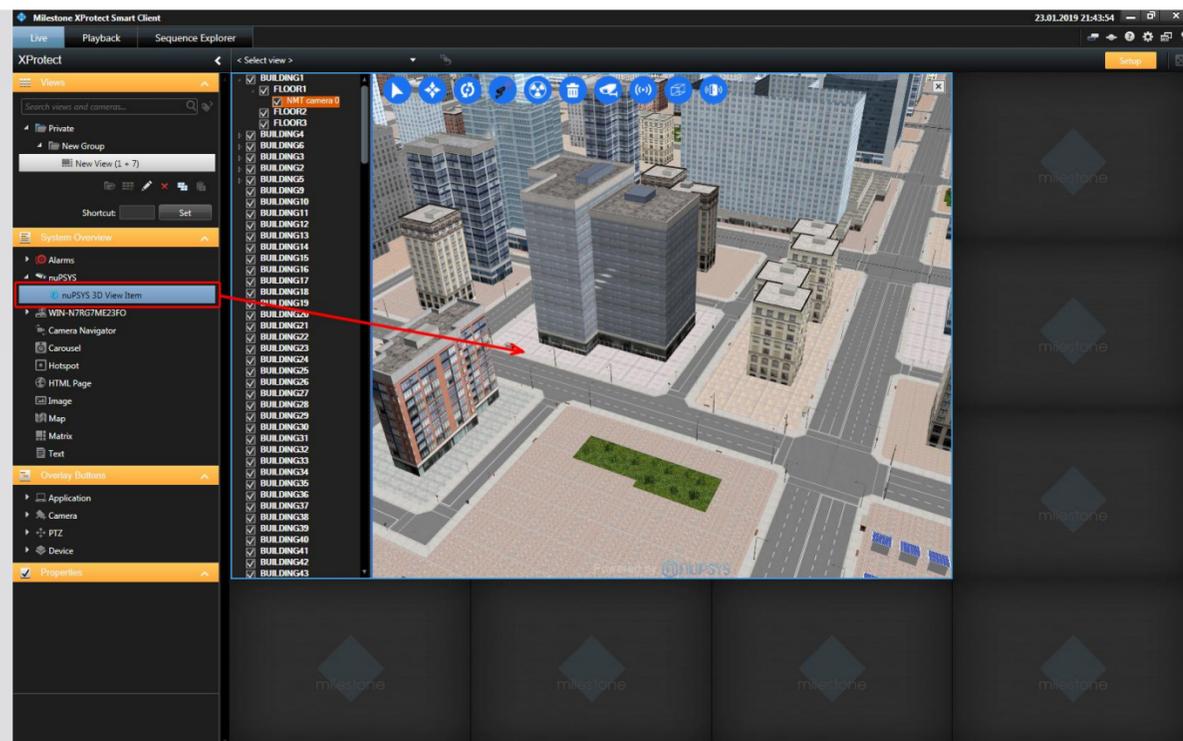
In the image you can see the main elements of nuSIM

The side menu can be hidden for convenience, increases the viewing area

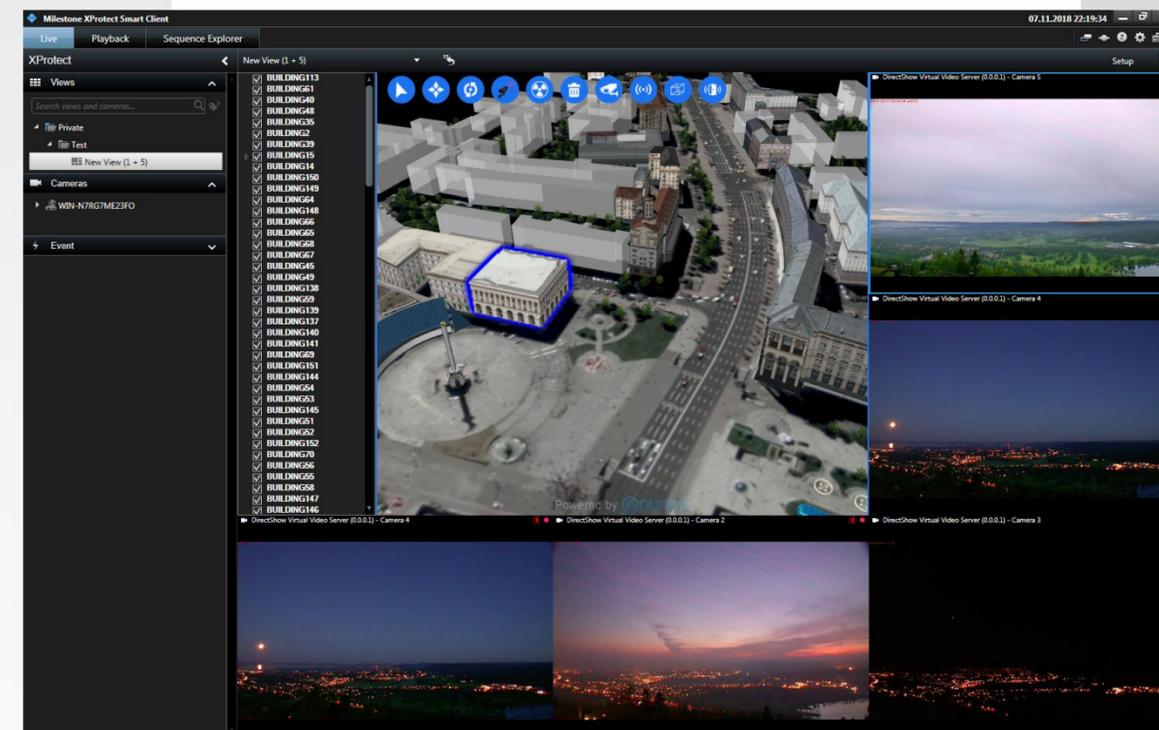
The panel for creating and editing cameras and sensors.



## Adding 3D-Plugin into workspace

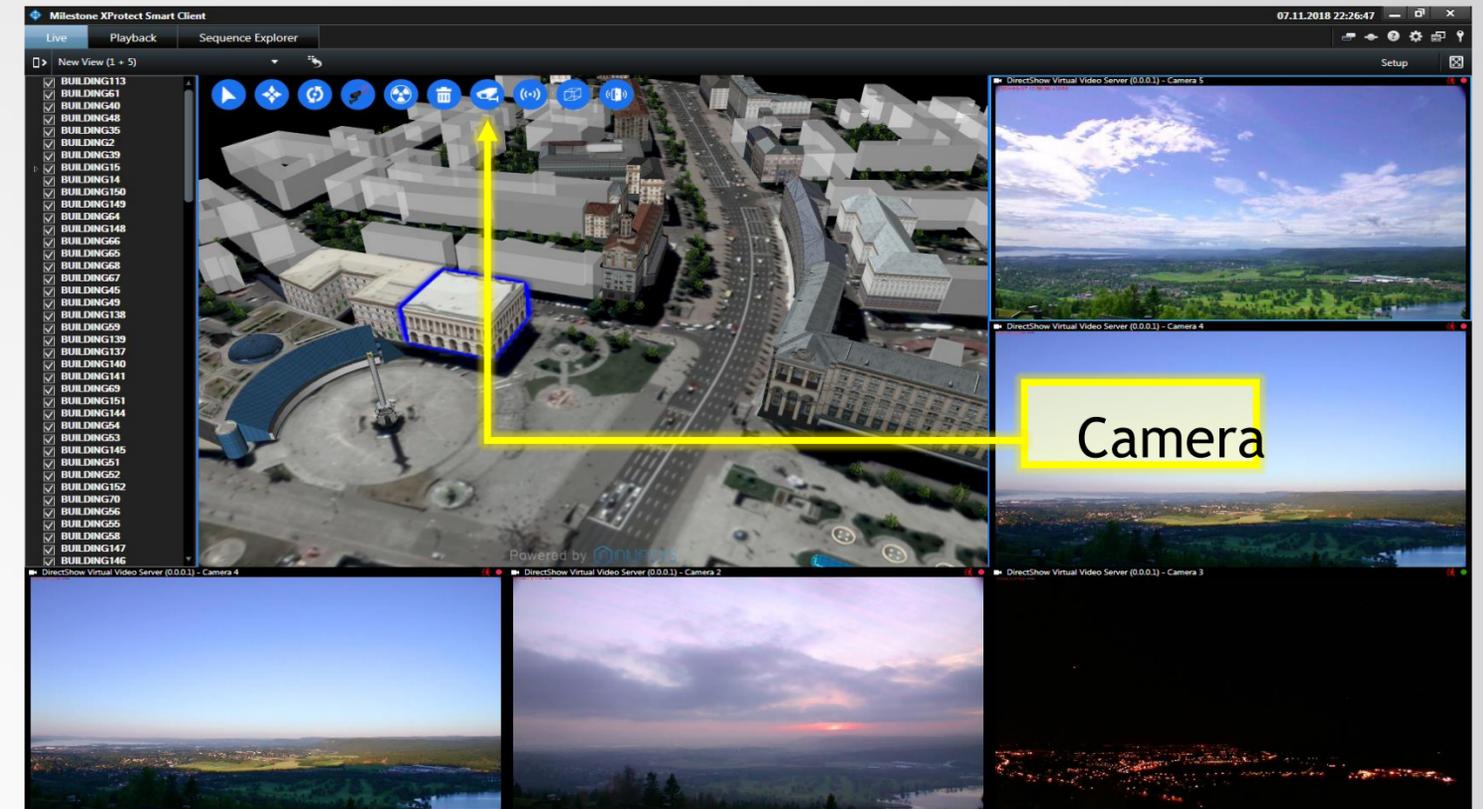
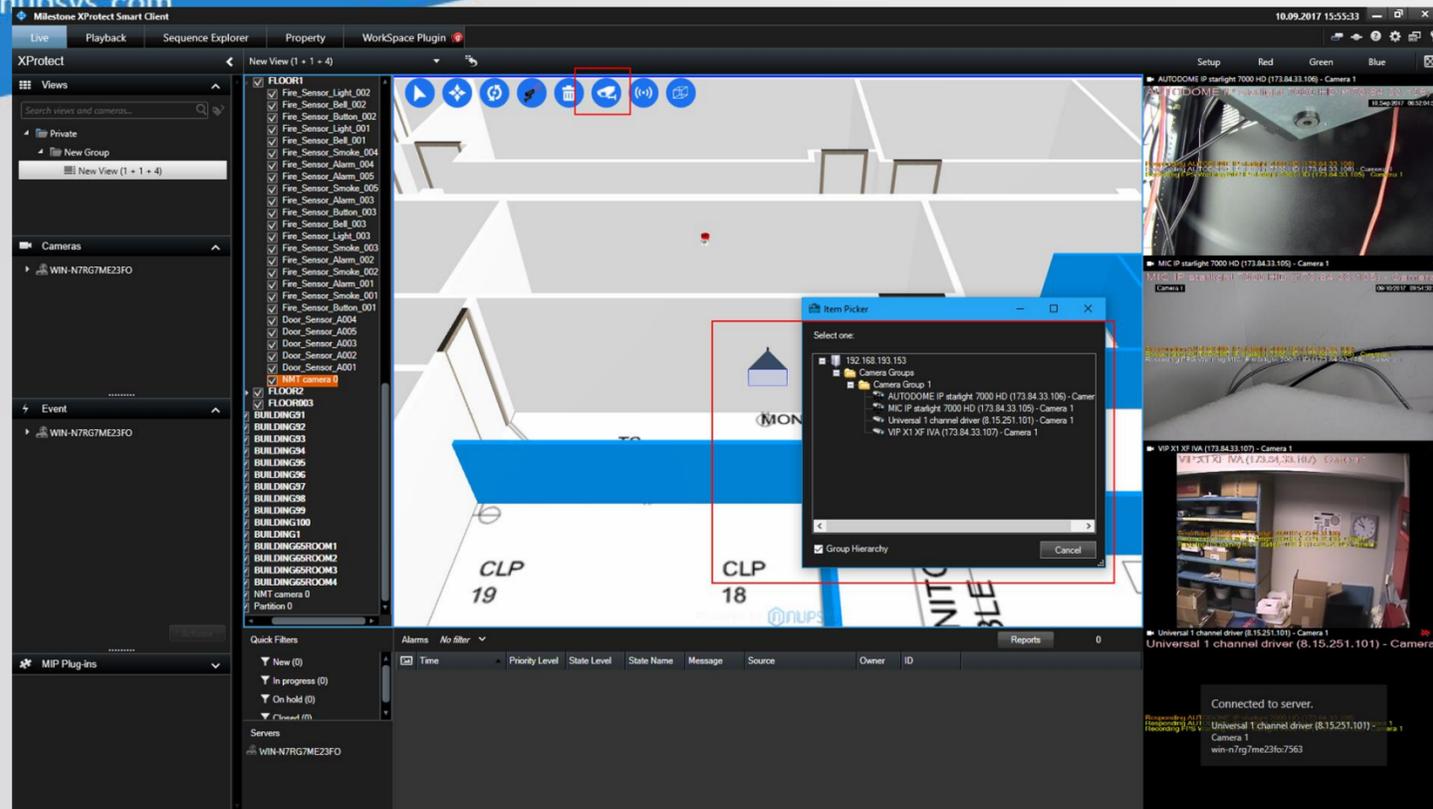


To add a Plugin into the workspace, in the Setup mode drag it from the left tree to the workspace, previously selected Plugin will load automatically  
 Make sure, the 3D Model is properly installed into the same location as the plugin



Navigation in the 3D window can also be through the side menu of nuSIM  
 For some users, this type of navigation will be easier. Just click on the building, floor, sensor or camera in the sidebar and you will immediately see this item in the center of the screen. Double click on the camera will cause the video to be viewed in window 3d. Sidebar and sidebar elements have a context menu, where you can find group management and menu item settings.

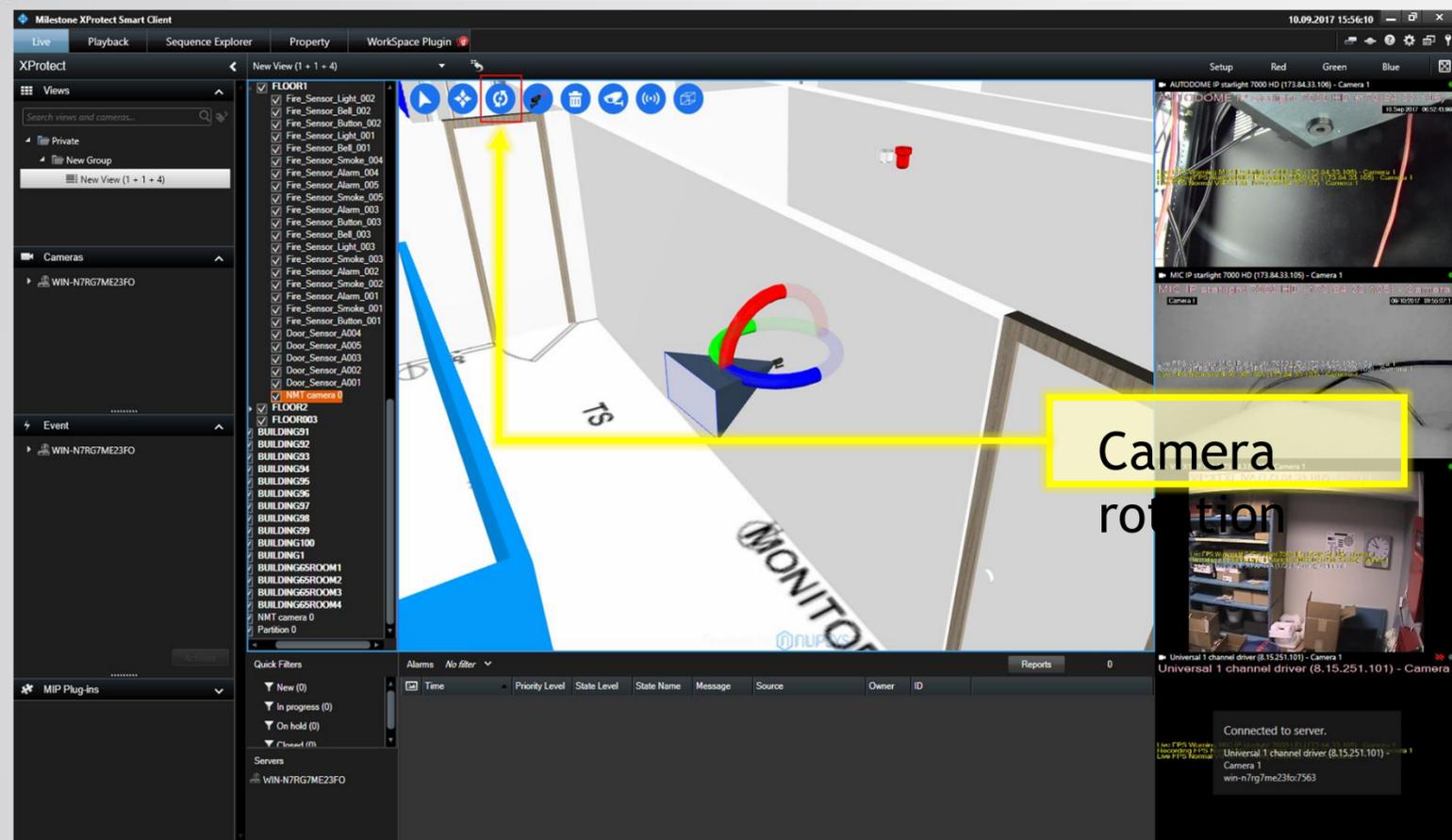
# 3D-Plugin Camera Insertion



You can create on different buildings, the number of cameras can be up to several thousand if necessary. Using the side menu, you can switch between cameras to view the video stream. In the image you can see the created cameras in the 3D window. In the sidebar you can see the list of names of the created cameras, you can rename the camera by clicking on the name with the right button and "Rename". The created cameras will appear in the camera tab automatically after creation.

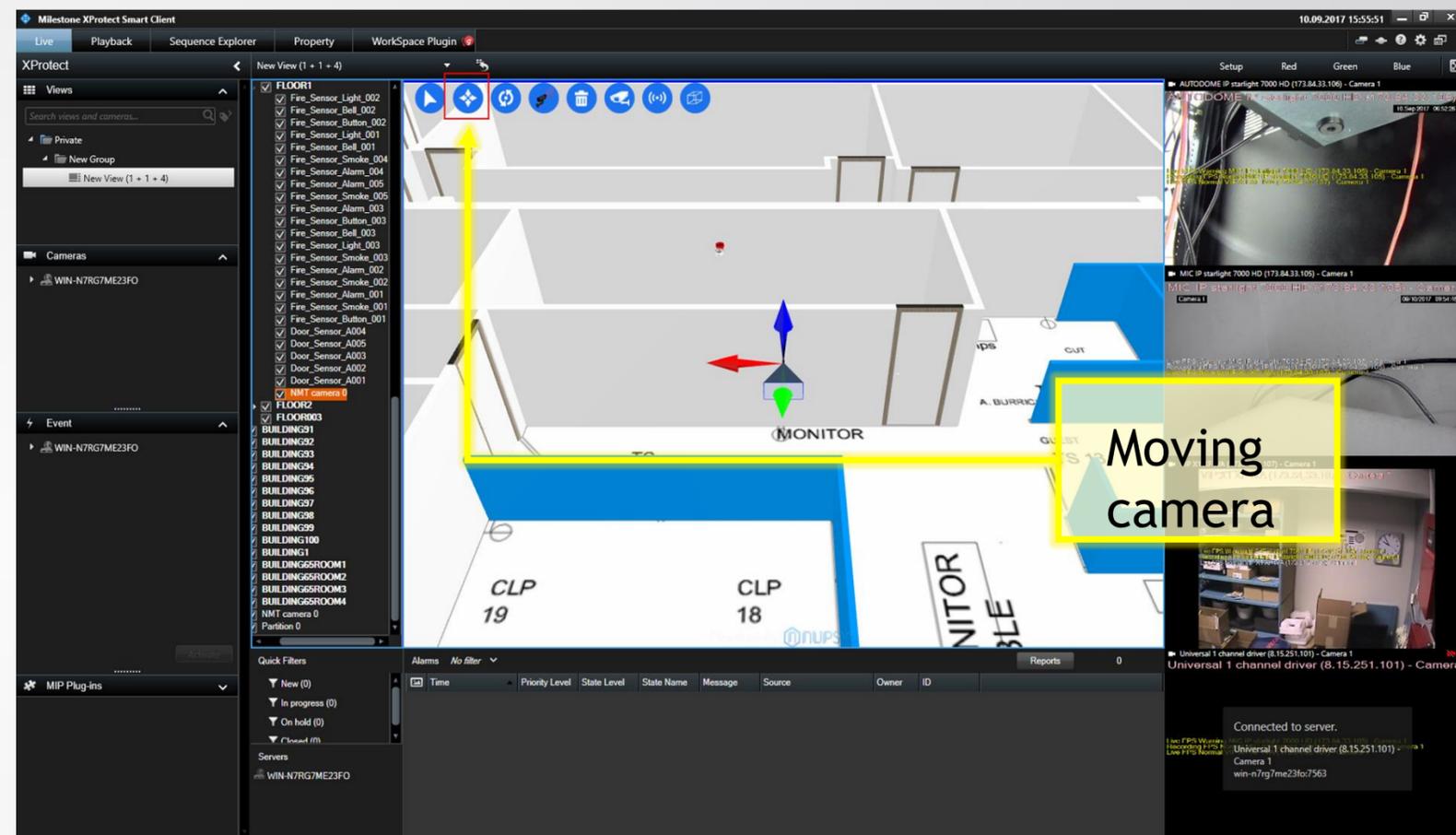
In the creation menu, you will see camera, you can create of outdoor and indoor cameras. You can mount cameras on walls outside and inside the building on exterior elements such as lamps, pillar and other designs. If necessary, you can move, rotate or delete the camera (camera removal is in the context menu of the camera) To create a camera, select camera and in the desired location to install the camera, make a double click. For the convenience of camera placement, they have "Adhesion" to objects.

# 3D-Plugin Camera Rotation



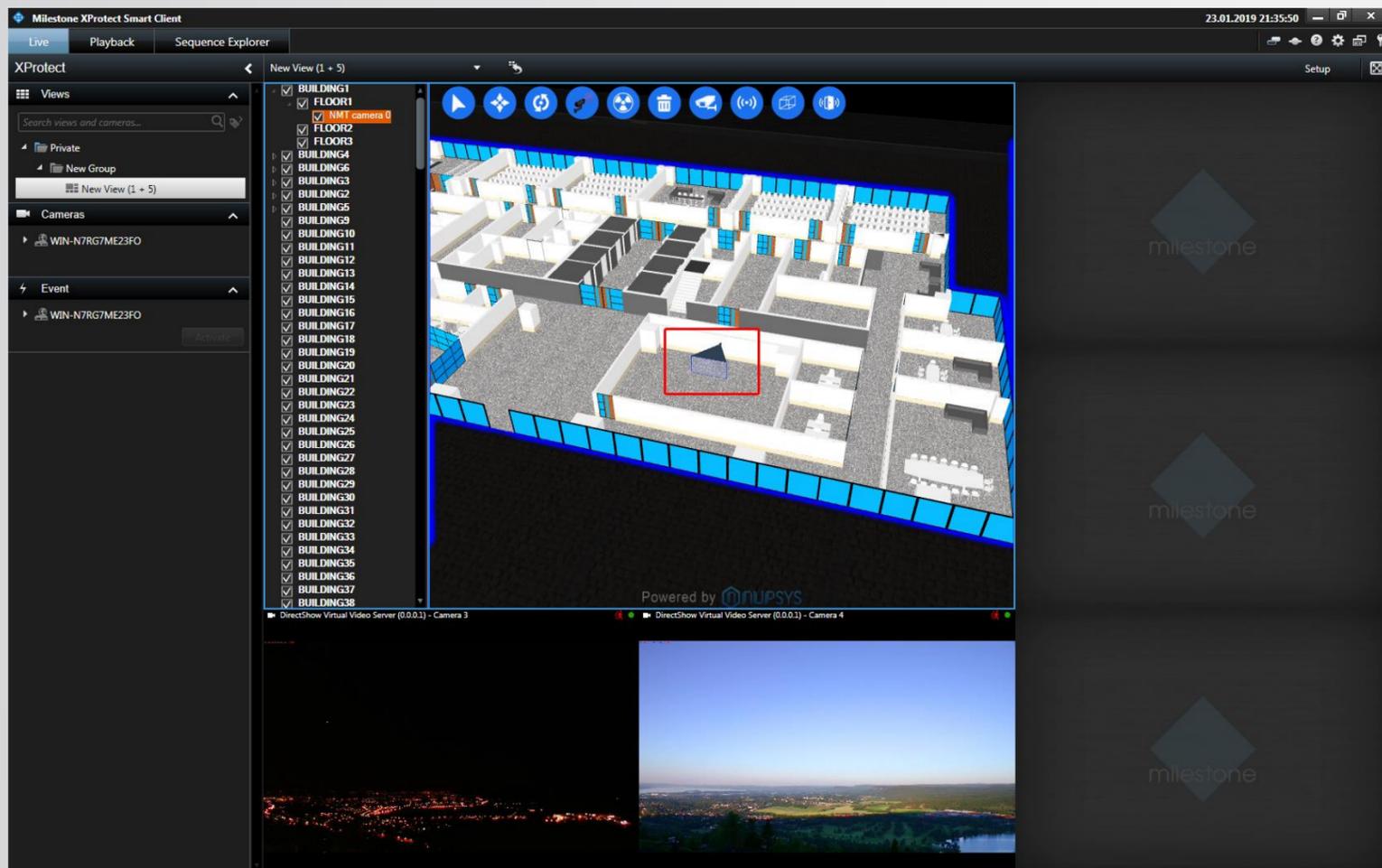
To adjust camera angle: Move the controls red blue green, changing the angle of "X,Y,Z"

# 3D-Plugin Camera Move



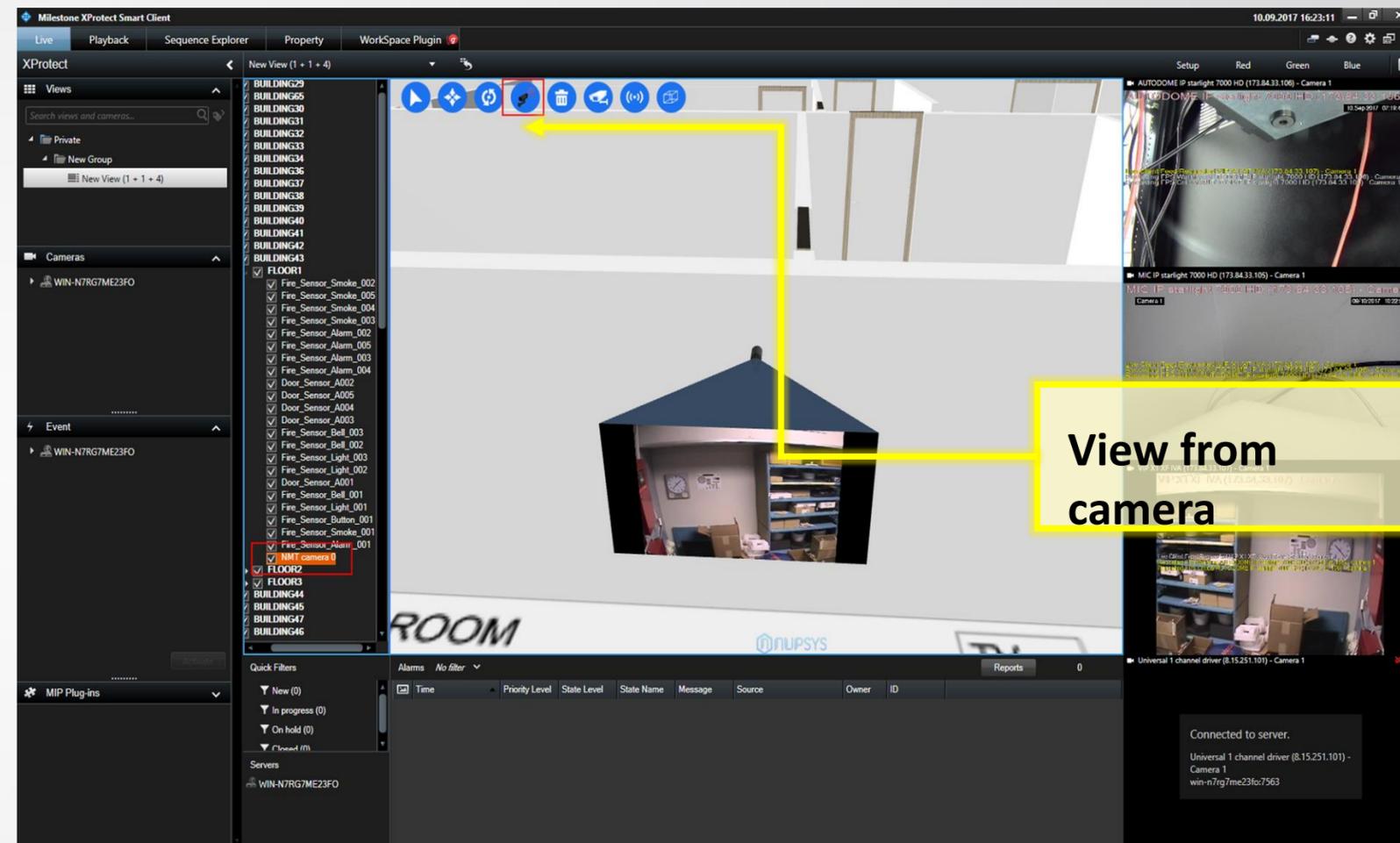
To adjust camera position Move the controls red blue green, changing the position of "X,Y,Z"

# 3D-Plugin Fly-to-camera



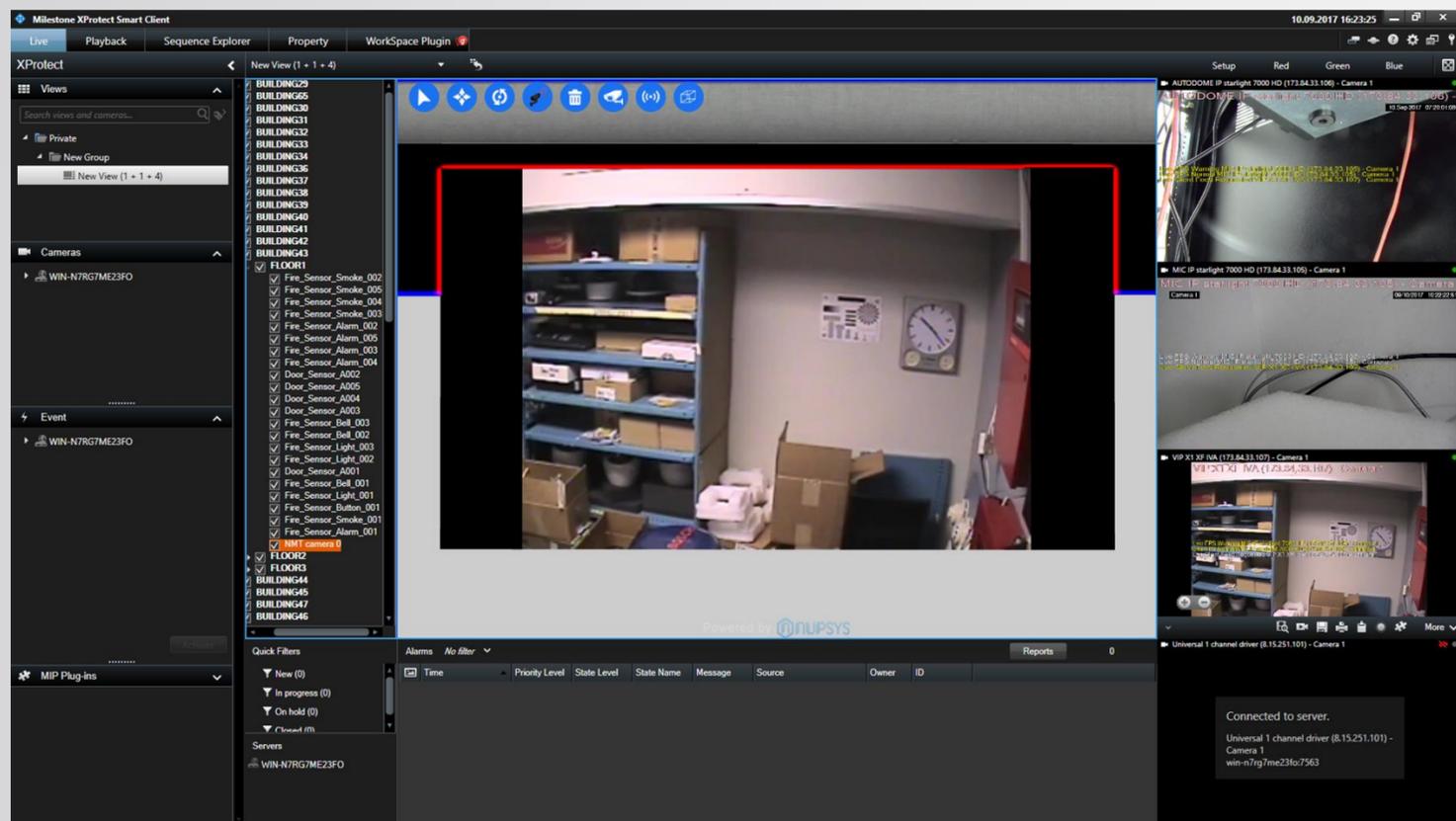
Double click on the camera name in the tree to fly to the camera

# 3D-Plugin 3D-Camera View



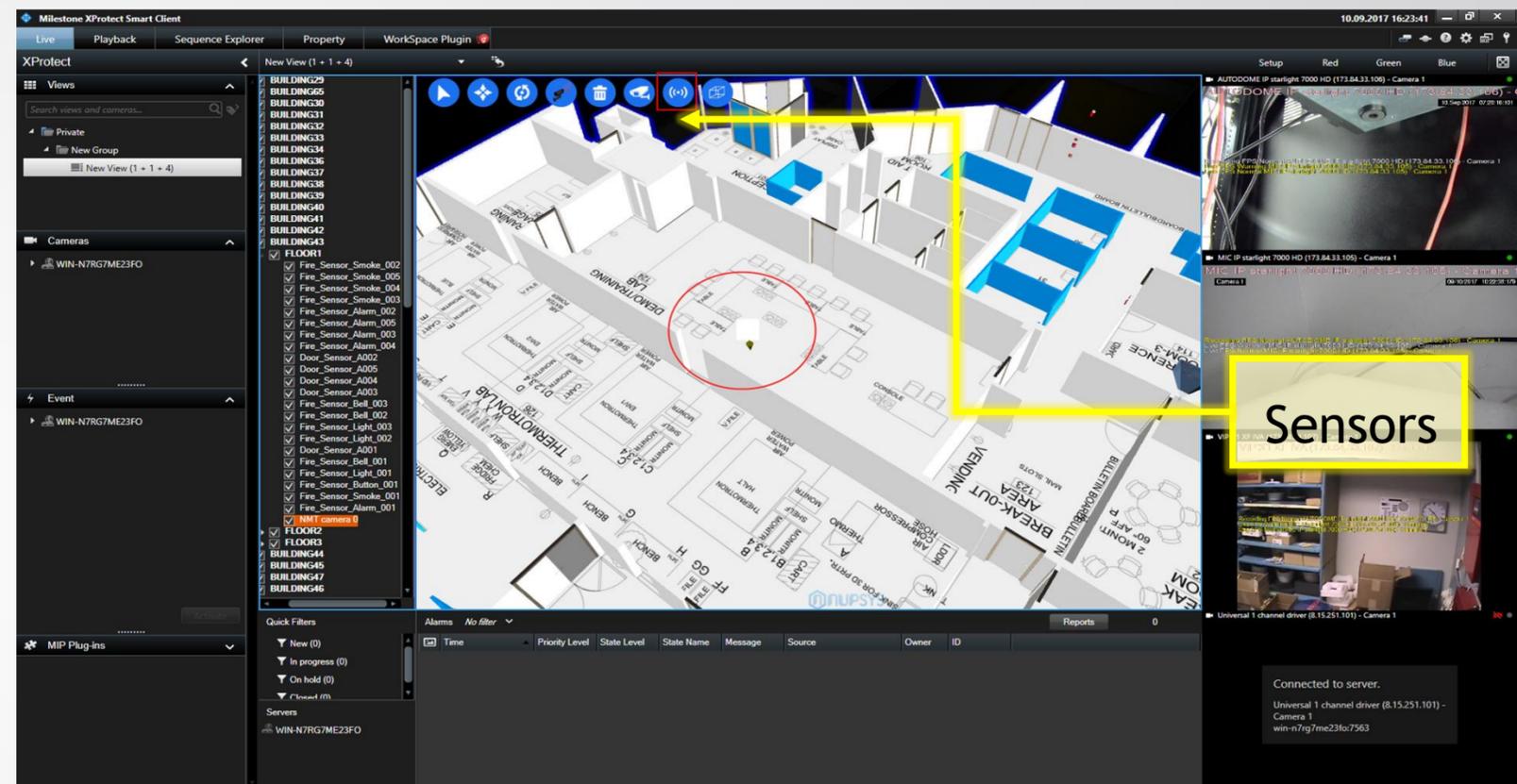
Clicking on the camera in the side menu or in the 3D window, we see what kind of video stream it is currently showing.

# 3D-Plugin Camera View



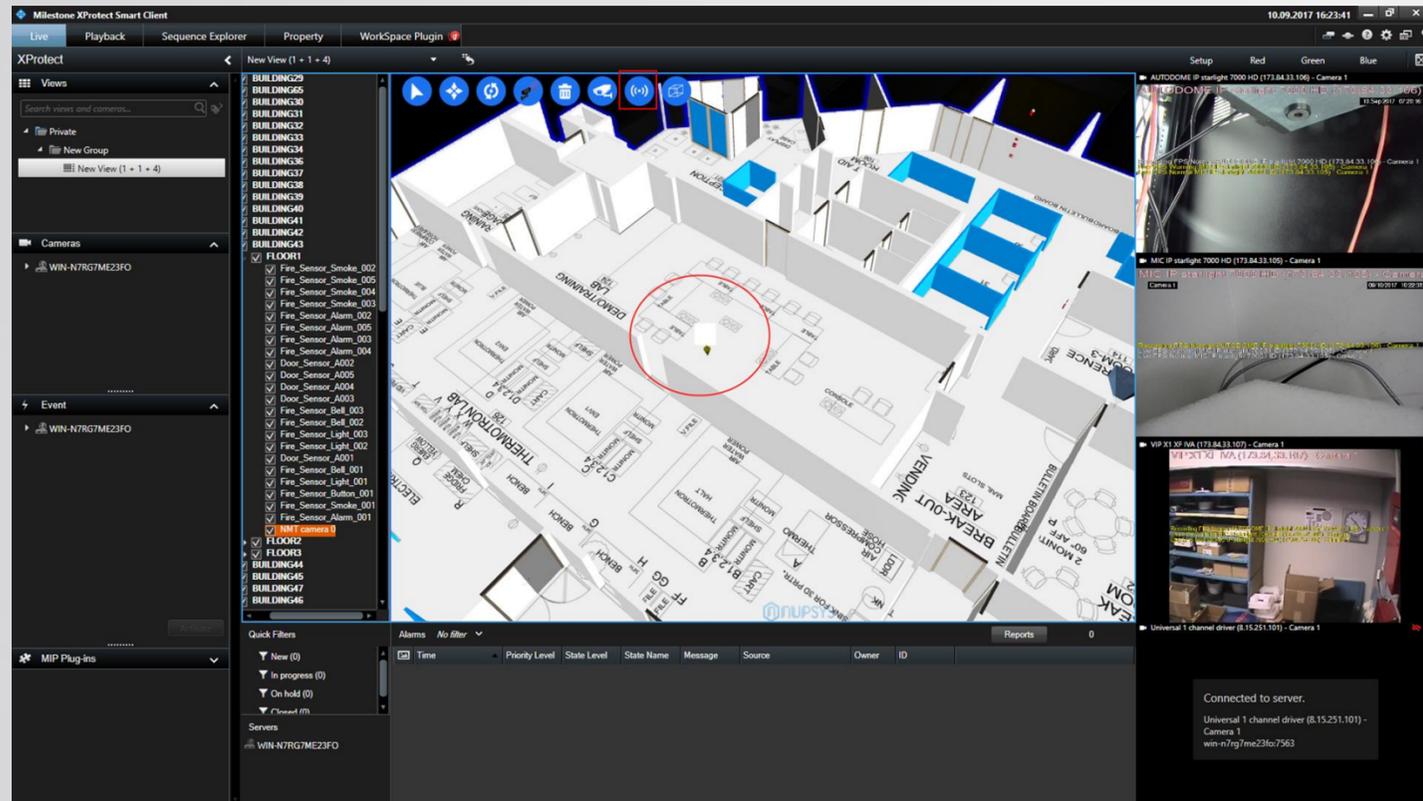
In the image you can see an example of viewing the video stream in the 3D window, for this it is worth making a double click on the camera in the list of the side menu or on the camera in the 3D window  
Exit view video stream by simply turning the mouse wheel.

# 3D-Plugin Sensors



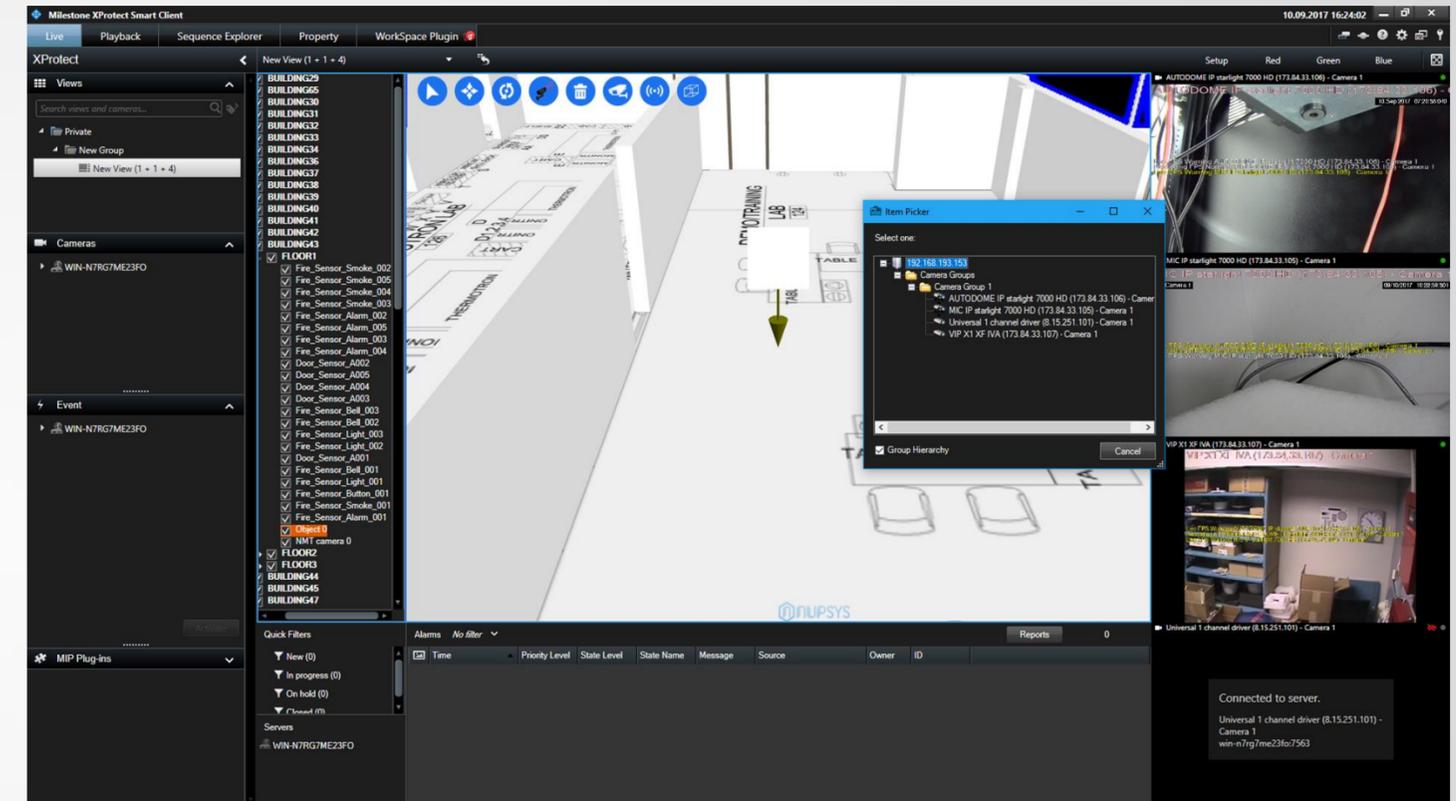
In the nuSIM Milestone program, we can put various sensors. There are fire sensors and door sensors.

## 3D-Plugin Fly-to-Sensor



Double click on the sensors name in the tree to fly to the sensors

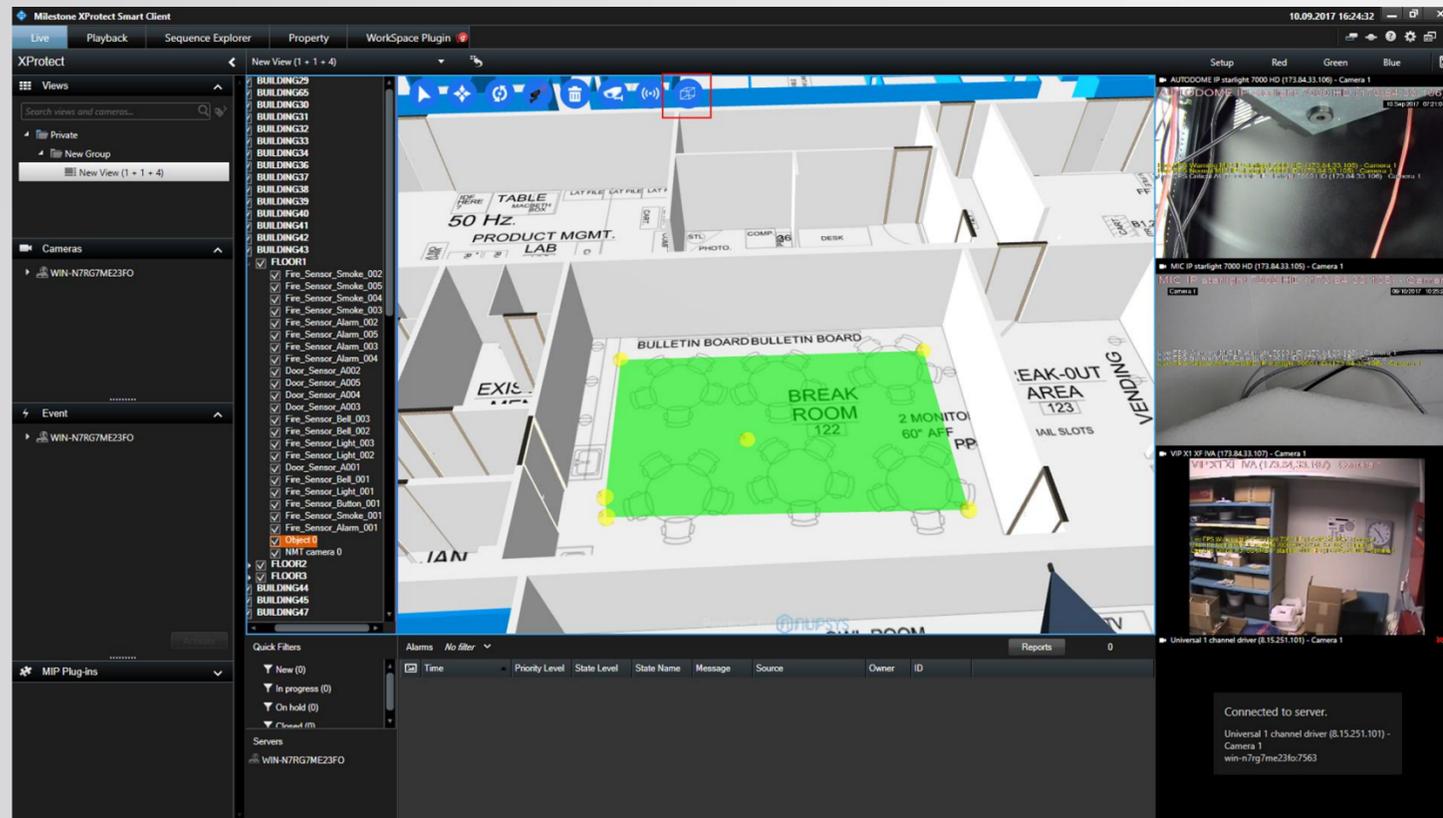
## 3D-Plugin Selection of Camera or Sensor



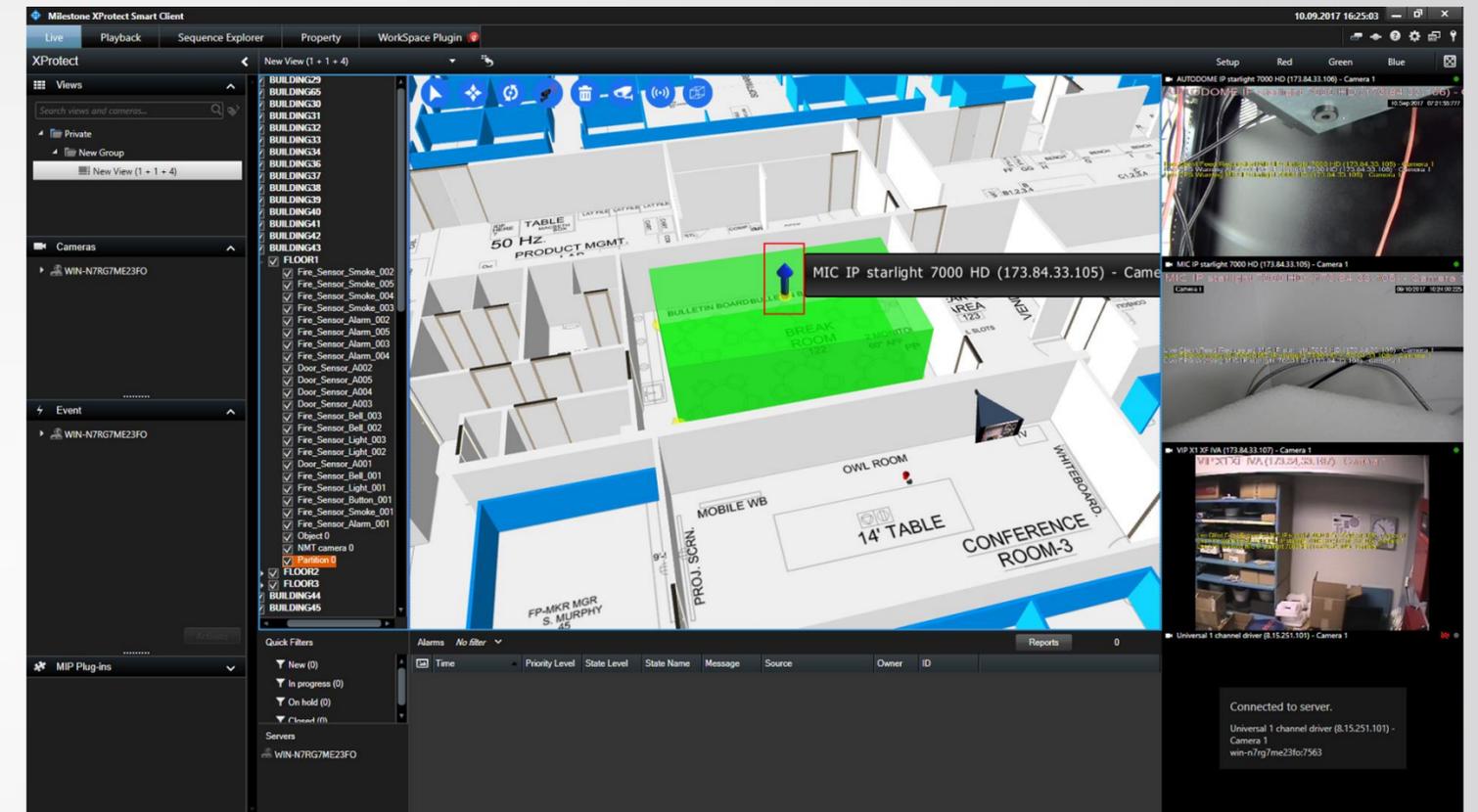
Select appropriate milestone item (e.g. physical camera or sensor) in the Item selector dialog window.

# 3D-Plugin Partitions

# 3D-Plugin Partitions Adjustments



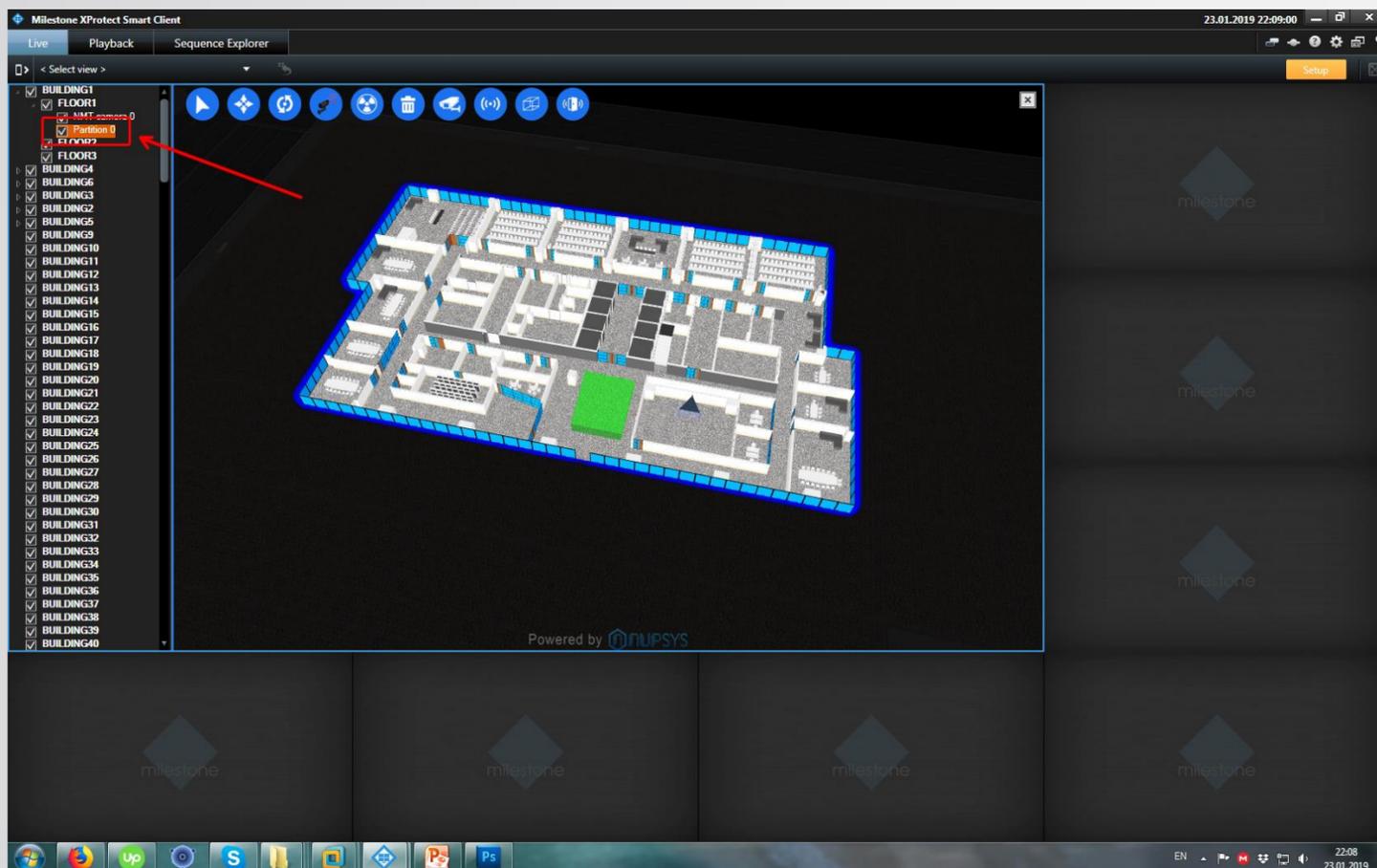
To add a partition, click on "Add Partition" button in the 3D, then click on each point of the partition on scene, right click to apply the visual configuration



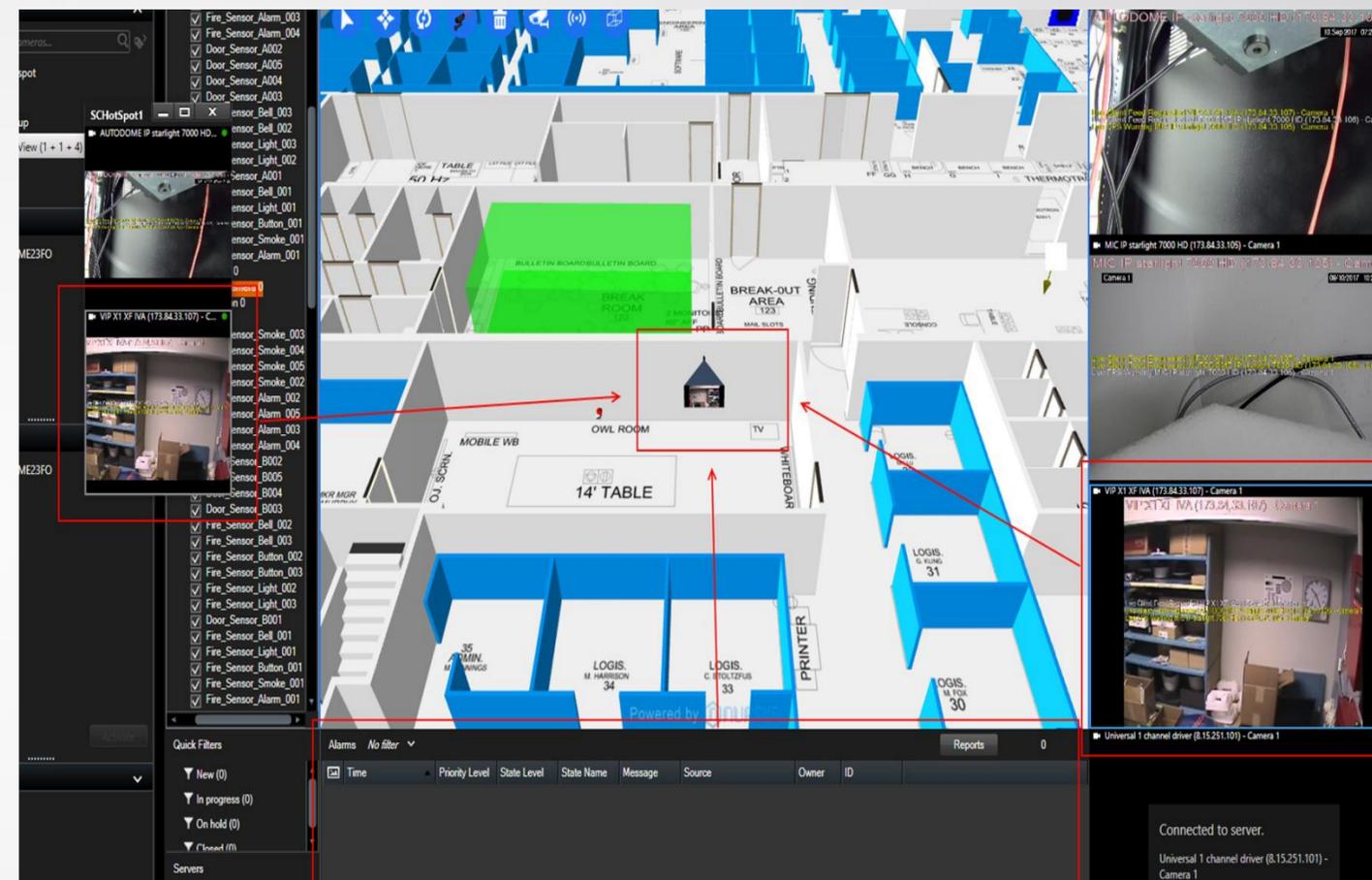
Partition height can be adjusted by dragging the arrow in the partition center

## 3D-Plugin Fly-to-Partition

## 3D-Plugin Position Auto-Synch

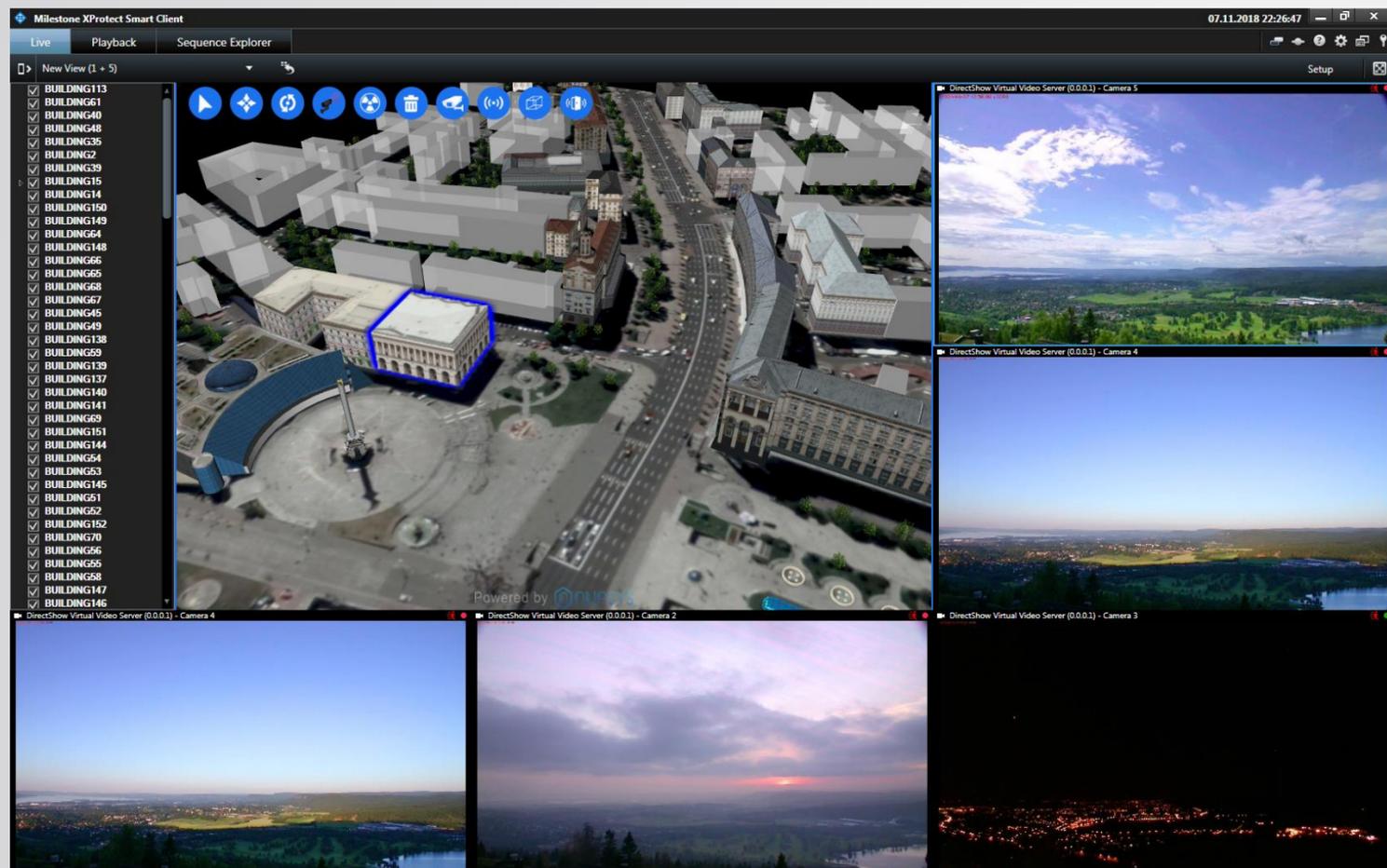


Double click on the partition name in the tree to fly to the partition



When a security item is selected in the Milestone UI, nuPSYS plugin will automatically synchronize it's position with the 3D scene

## 3D-Plugin Scalability to Smart-Cities



Use nuSIM Milestone to manage the smart systems of the city, airport, industrial complexes located in different parts of the world. We give freedom in the visualization of complex systems, 3D technologies allow the user to better understand the location of the devices used, do not need complicated drawings, just look at the 3D model

## 3D-Plugin Basic HW

### Minimum Specifications

OS: Windows 10 - 64-Bit

CPU: Intel Core i5

RAM: 16GB

SSD Hard Drive Space Required: 50.0 GB

GPU : Nvidia GeForce GTX 9xx 4GB

DirectX: 11.0

### Recommended Specifications

OS: Windows 10 - 64-Bit

CPU: Intel Core i7

RAM: 32GB

SSD Hard Drive Space Required: 50.0 GB

GPU : Nvidia GeForce GTX 10xx 8GB

DirectX: 12.0