How to Configure PTZ Functions

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Introduction

PTZ (pan, tilt, and zoom) cameras are devices that can be moved left and right (pan), up and down (tilt), and zoom in and out. Why do we need PTZ camera? There are several advantages of PTZ camera.

First of all, it can be remotely controlled to pan, tilt and zoom. Wherever you are, you can easily adjust the camera toward the area you want to monitor without going to the site where the camera is. Furthermore, the preset functions allows you to monitor multiple areas as long as the camera can point to the right direction. This function greatly increases the flexibility of your video surveillance system.

You also can set schedules for the PTZ camera to monitor several different areas in turn. For example, you may want to monitor the whole area in the day time, but just the entrance during the night as no one should show up there. You just need to make preset points for these two different areas and make a tour to let your camera move between them.

In the following chapter, we are going to show you how to configure PTZ functions including manual PTZ, preset points, auto scan, and preset tour.
Functions of PTZ Camera

- Manual PTZ
  You can use PTZ control panel to remotely control the camera.

  a. Via web configurator
     Click ‘PTZ’. The PTZ control panel will pop up. You can use it to pan, tilt, and zoom in and out. Besides those, you also can control the **speed** of panning, tilting, and zooming.
b. Via NVR

First, you have to enable PTZ function and choose the correct model and protocol. Press apply and restart ActiveSetup.

Open ActiveMonitor. You will be able to use the control panel on the left side to control the camera to pan, tilt, and zoom.
● Preset points

You may have many places to monitor for your PTZ camera. You can use this function to let your camera switch between the preset areas. Then you can go to these preset points by scheduled time or by certain events.

For example, if you want to monitor the platform of a train station, you may want to see not only the whole area, but also some certain spots for different needs. Then you can schedule an event and make the camera to monitor the platform during the day time and move to another certain spot during the night time. (Note: If you need to know how to schedule or configure an event, please reference the document http://www.acti.com/support/KnowledgeBase/outside/detail.asp?KB_ID=KB20100125001.)

Now, you have to know how to set preset points and you will know how to make a tour for preset points in the last section.

a. Via web configurator

First, you have to use PTZ control panel to adjust the camera and aim at the area you want to monitor.

After completing the adjustment, click ‘Preset’ button to go to the preset page. You can choose any number and then click the corresponding ‘Set’ button. You
also have to set up the name. After that, you’ve done all the settings of one preset point. If you need to set up another preset point, please repeat the steps from the last step to this one.

After all the settings are done, go back to PTZ page. You will be able to use these preset points by clicking the number ID and shift your view to that preset point.
b. Via NVR
1. Go to ActiveSetup / PTZ Preset.
2. Click ‘Live View’ to get the real time video
3. Use ‘PTZ Operation’ to adjust the camera
4. Choose the number and enter the name you want. Click the Check mark to remember it. This will setup the PTZ preset point.

Go back to Active Monitor, and you will see the entry you set is in the ‘Goto’ check list. Afterward, you can use it and go to the preset points easily.
Auto Scan

If the function auto scan is enabled, the camera would pan left to right continuously to scan the whole area.

a. Via web configurator

   The auto scan control is under PTZ -> Other Controls. You also can set the speed for auto scan.

b. Via NVR

   Choose ‘Start Scan’, then it will start to scan.

Note: We suggest you avoid continuous auto scan unless really needed, and use preset points instead. The reason of it is that the non-stop movement puts a lot of stress on the it may reduce the life of your PTZ camera. It’s like if you keep running a machine (ex: a car is driven continuously for a long time), the machinery part would possibly wear away sooner than if you give it some rest in between activities.
Preset Tour

You can assign several preset points, and link them in a tour to monitor each area for the duration you want. For example, in the warehouse, you would want to both see the overview and focus on a certain production line. Therefore, you have to set those areas as preset points. And then you can make them a tour and set the time to patrol them. The camera will then monitor different areas according to your assigned schedule. If you set four preset points for the tour, it will go from number one to four, and go back to number one and run to four, over and over again. Tours can be triggered by event or run on scheduled time. Please reference the document (http://www.acti.com/support/KnowledgeBase/outside/detail.asp?KB_ID=KB20100125001) for how to configure an event.

a. Via web configurator
   1. Set the preset points that you want to monitor
      ![Preset Points Setup]

   2. (1) Choose a tour
      (2) Click Edit
      ![Tour Setup]

3. Make a tour by configuring the sequence of the preset points and the time.
   (1) Choose one preset point
   (2) Set the time interval that you want camera to monitor the area
   (3) Click add(+) button
   (4) When you finish setting, don’t forget to save it

4. If you need to adjust the sequence, you can use the buttons as below.
b. Via NVR

1. Set the preset points. Then you can see the setting in ActiveSetup and ActiveMonitor.

![ActiveSetup and ActiveMonitor](image)

![ActiveSetup and ActiveMonitor](image)

Figure: (left) ActiveSetup; (right) ActiveMonitor

2. Go to ActiveSetup and Preset Tour page. Secondly, set the tour name and click ‘Apply.’ Then you can see the entry you set in the tour list.

![ActiveSetup and ActiveMonitor](image)

![ActiveSetup and ActiveMonitor](image)
(3) Choose the tour from tour list and click ‘Add Preset’ to add the preset points.

(4) Check the preset points you need, and click ‘Add’.
(5) Configure the 'Dwell Time' for each preset point. After you complete the settings, click 'Apply.'