



ClareVision NVR Matrix View Notation API

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Introduction

This document gives the matrix view notation API code for the ClareVision NVR. The code controls what displays on the monitor that connects to the NVR, and enables the change of what is being viewed, time display, and update frequency. The new version of firmware supports IP controls for the following features.

- Observing specific cameras and channels
- Observing the matrix view
- Observing the matrix view with rotation

Matrix view and rotation

/ISAPI/System/Video/Preview/1

URI	/ISAPI/System/Video/Preview/1	
Function	matrix view and view rotation settings	
Methods		
	Inbound Data	Return Result
GET		<Preview>
PUT	</Preview>	
Notes	<ol style="list-style-type: none">1. Different values of the ID stand for different view modes: 1 refers to 1*1, 2 refers to 2*2, 3 refers to 1+5, 4 refers to 1+7, 5 refers to 3*3, 6 refers to 4*4.2. Example URL: http://172.5.5.92/ISAPI/System/Video/Preview/13. Do not set the ID value beyond the capacity for the device. For example, an 8 channel device has 5 view modes (1*1, 2*2, 1+5, 1+7, 3*3), so the ID value must be no larger than 5.	

basicConfig XML Block

```
<?xml version="1.0" encoding="UTF-8" ?>
<Preview version="1.0" xmlns="http://www.isapi.org/ver20/XMLSchema">
  <PreviewRelationList>
    <PreviewRelation>
      <id>1</id> //id refers to different view modes
      <ViewMode>1</ViewMode> //number of windows of different view
modes(1,4,6,8,9,16)
      <DwellTime>5</DwellTime> //rotation time(unit :second)
(5,10,20,30,60,120,300)
    </PreviewRelation>
    <PreviewRelation>
      <id>2</id>
      <ViewMode>4</ViewMode>
      <DwellTime>10</DwellTime>
    </PreviewRelation>
    <PreviewRelation>
      <id>3</id>
      <ViewMode>6</ViewMode>
      <DwellTime>20</DwellTime>
    </PreviewRelation>
  </PreviewRelationList>
</Preview>
```

```

</PreviewRelation>
<PreviewRelation>
  <id>4</id>
  <ViewMode>8</ViewMode>
  <DwellTime>30</DwellTime>
</PreviewRelation>
<PreviewRelation>
  <id>5</id>
  <ViewMode>9</ViewMode>
  <DwellTime>60</DwellTime>
</PreviewRelation>
<PreviewRelation>
  <id>6</id>
  <ViewMode>16</ViewMode>
  <DwellTime>120</DwellTime>
</PreviewRelation>
</PreviewRelationList>
<PreviewHostIdx>
  <HostIdx>9</HostIdx>          //(1, 4, 6, 8, 9, 16)The current number of
windows
</PreviewHostIdx>
<PreviewChanList>
  <PreviewRelation>
    <WinOrder>9</WinOrder> // the window number, the number should be in
range of 1~max.channel number
    <ChanOrder>9</ChanOrder> //channel number for live view
  </PreviewRelation>
</PreviewChanList>
</Preview>

```

Customer support information

For questions about Clare Controls products, please contact us at:

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