



**AnalyticVideo Camera
For Axis Network Cameras
VAPIX How-to**

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VAPIX REQUESTS

Rule IDs:

Rule name	Rule ID
Direction Detector	0
In Zone Counter	1
Line Crossing	3
Object Counter	4
Simple Tracking	5
Unattended Objects Detector	7

Getting a collection of plugin events

Script to call: <http://<cameraIP>/local/avc/analyze.cgi>

If the response message is empty, there are no events on the corresponding frame.

Response message structure:

(*x10,yt0,xr0,yb0,pid0,id0,event0; ...*),

or (*x10,yt0,xr0,yb0,pid0,id0; ...*) if there are no events,

or (*pid0,id0,event0; ...*) if there are no objects.

x1 – X Left coordinate of an object (measured in percent of frame width [0..100]).

yt – Y Top coordinate of an object (measured in percent of frame height [0..100]).

xr – X Right coordinate of an object (measured in percent of frame width [0..100]).

yb – Y Bottom coordinate of an object (measured in percent of frame height [0..100]).

pid – rule ID.

id – object ID.

event – event from rule;

; – events separator.

(*x0,y0,pid0,id0,event0; ...*).

x – X coordinate of a point of intersection of the line (measured in percent of frame width [0..100]).

y – Y coordinate of a point of intersection of the line (measured in percent of frame height [0..100]).

pid – rule ID.

id – object ID.

event – event from rule;

; – events separator.

Getting regions of interest for specific rule

Script to call: http://<cameraIP>/local/avc/get_areas.cgi?action=pid

pid – rule ID.

If the response message is empty, the entire frame is processed.

Response message structure: (x0 , y0 : ...; xn , yn : ...) ,

For Direction Detector: (ang0 , x0 , y0 : ...; angn , xn , yn : ...) ,

For Line Crossing: (dir0 , x0 , y0 : ...; dirn , xn , yn : ...) .

ang – angle of the allowed direction of movement in degrees.

dir – direction of movement: to the left of the line(1), to the right of the line(2), both directions(0).

x – X coordinate of a region point (measured in frame width share [0..1]).

y – X coordinate of a region point (measured in frame height share [0..1]).

: – region points' separator.

; – regions separator.

Getting current frame resolution

http://<cameraIP>/local/avc/get_resolution.cgi

Response message structure: <width>x<height>.

<width> – frame width.

<height> – frame height.

Getting tracker parameters

<http://<cameraIP>/axis-cgi/param.cgi?action=list&group=Avc>

Setting regions of interest

http://<cameraIP>/local/avc/set_areas.cgi

The requested structure is:

resolution=<width>x<height>,

&name=pid,

&value=(x0,y0: ...; xn,yn: ...),

For Direction Detector: &value=(ang0,x0,y0: ...; angn,xn,yn: ...),

For Line Crossing: &value=(dir0,x0,y0: ...; dirn,xn,yn: ...).

ang – angle of the allowed direction of movement in degrees.

dir – direction of movement: to the left of the line(1), to the right of the line(2), both directions(0).

x – X coordinate of a region point (measured in frame width share [0..1]).

y – X coordinate of a region point (measured in frame height share [0..1]).

: – region points' separator.

; – regions separator.

Setting new parameter value

<http://<cameraIP>/axis-cgi/param.cgi?action=update&Avc.<name>=<value>>

<name> – parameter name.

<value> – parameter value.

Getting included plugins

Script to call: <http://<cameraIP>/local/avc/plugins.cgi?action=get>

Response message structure: (pid0, ... pidn).

pid – rule ID.

Setting included plugins

Script to call: <http://<cameraIP>/local/avc/plugins.cgi>

The requested structure is:

action=set,

&value=(pid0, ... pidn).

pid – rule ID.

CONTACT US



Support: support@analyticvideo.com

Licensing: bizdev@analyticvideo.com

Web: www.AnalyticVideo.com

i.Dot

Headquarters

Institute of Digital and Optical Technologies B. V.

Postal address: De Lairesestraat 160-C, 1075 HM
Amsterdam, the Netherlands

Fax: +31.20-8908634

E-mail: bizdev@idotbv.nl

Web: www.idotbv.nl

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