VIM Series HTTP API Manual

12 June 17

This manual explains how to use HTTP-based API of the VIM series. The HTTP-based interface supports the feature of setting internal values with a specific parameter.

Features Added

Three new commands were added: Email Hold Time / Email Delay Time / Cancel All Emails.

Special Notes

The default API credentials are admin / 1111. To change this, login into the camera using the API credentials, then go to Configuration > User Management. Check the box for the Admin account and choose "Modify Pwd". Change the password to the current admin account (default is admin / admin). Once you have done this, the local admin and API admin accounts will be merged and you can use the same admin account to authorize login and API commands.

Known Limitations

The API port is hard-coded at **8090**. This currently cannot be changed.

Commands provided in this manual are currently not compatible with the NVRs.

Snapshot Stream

Example Syntax:

http://ipaddress/snapshot.jpg

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
N/A	N/A	Provides a single static JPG image	Send command as-is, no additional entries needed

RTSP Stream

Example Syntax:

rtsp://username:password@ipaddress:**Port**/1/**StreamID**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
Port	554	Default RTSP port, can be changed by going to Configuration > Network Management > Network Service > Other > RTSP Port	Must be a numeric value
StreamID	1 ~ 3	1st Stream, 2nd Stream or 3rd Stream	Must be a numeric value

VCA Events

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/SystemEx/Video/inputs/channels/**ChannelID**/Rule/**RuleID**/scenes/**SceneID**/VCA/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
ChannelID	1 ~ 3	Corresponds to the video channel ID	Must be a numeric value
RuleID	1 ~ 8	Corresponds to the Rule ID	Must be a numeric value
SceneID	1 ~ 16	Corresponds to the Scene ID	Must be a numeric value
Action	enabled | disabled	Either enables or disables the VCA event	

Video Streams

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/streamingEx/channels/**ChannelID**/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
ChannelID	1 ~ 3	Corresponds to the video channel ID	Must be a numeric value
Action	enabled | disabled	Enables or disables the video stream	This disables ONVIF/RTSP, Web UI will still show video

Digital Output

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/SystemEx/Output/**OutputID**/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
OutputID	1 ~ 3	Corresponds to the Alarm Output	Some models differ on the amount of outputs available
Action	enabled | disabled	Either enables or disables the Alarm Output	

Audio Input

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/SystemEx/Audio/1/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
Action	enabled | disabled	Either enables or disables the Audio Input	

HTTP MJPEG Stream

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/MjpegStream/1/**StreamID**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
StreamID	1 ~ 2	Corresponds to the 1st Stream and 2nd Stream	Video Encoding must be set to MotionJPEG for this to work

Send PTZ to Preset

Example Syntax:

http://username:password@ipaddress:8090/PSIA/PTZCtrlEx/channels/1/presets/**PresetID**/goto

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
PresetID	1 ~ 60	Corresponds to the Preset number.	Must be a numeric value.

Send PTZ to Scene

Example Syntax:

http://username:password@ipaddress:8090/PSIA/PTZCtrlEx/channels/1/scenes/**SceneID**/goto

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
SceneID	1 ~ 16	Corresponds to the Scene.	Must be a numeric value.

PTZ Movement

Example Syntax:

http://username:password@ipaddress:8090/PSIA/PTZCtrlEx/channels/1/controls/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
Action	up	Moves the PTZ upward	Movement continues until stop command is received.
Action	down	Move the PTZ downward	Movement continues until stop command is received.
Action	Left	Moves the PTZ to the left	Movement continues until stop command is received.
Action	Right	Moves the PTZ to the right	Movement continues until stop command is received.
Action	Leftup	Moves the PTZ upward toward the left	Movement continues until stop command is received.
Action	Rightup	Moves the PTZ upward toward the right	Movement continues until stop command is received.

Action	Leftdown	Moves the PTZ downward toward the left	Movement continues until stop command is received.
Action	Rightdown	Moves the PTZ downward toward the right	Movement continues until stop command is received.
Action	Zoomin	Zooms the PTZ in	Movement continues until stopped or end is reached.
Action	Zoomout	Zooms the PTZ out	Movement continues until stopped or end is reached.
Action	stop	Stops all PTZ movement	

Email Hold Time

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/SystemEx/Network/mailing/Holdonoff/channels/1/time/**TimeValue**/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
TimeValue	0 ~ 300	Holds all VCA notifications until the time has expired	Must be a numeric value. Time is in seconds.
Action	enabled | disabled	Either enables or disables the Hold Time	

Email Delay Time

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/SystemEx/Network/mailing/Delayonoff/channels/1/time/**TimeValue**/**Action**

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
TimeValue	0 ~ 300	Sends the first VCA notification, and delays all subsequent notifications until time has expired.	Must be a numeric value.
Action	enabled | disabled	Either enables or disables the Delay Time.	

Cancel All Emails

Example Syntax:

http://username:password@ipaddress:8090/ISAPI/System/Network/mailing/DelayTimeReset

Valid entries

ENTRY	DATA FORMAT	DESCRIPTION	COMMENT
N/A	N/A	This command will cancel all pending emails and purge from memory.	Send command as-is, no additional entries needed.

Success Response Example

```
<ResponseStatus xmlns="http://www.isapi.org/ver20/XMLSchema" version="2.0">

<requestURL>/ISAPI/streamingEx/channels/1/enabled</requestURL>

<statusCode>1</statusCode>

<statusString>OK</statusString>

<subStatusCode>ok</subStatusCode>

</ResponseStatus>
```