SCNC (consumer series) URL COMMAND LIST

File Status: [X]Draft [ ]Official	Author / Date:	Sharx Security / 2014-08-02
	Checker / Date:	Not 100% checked yet
	Confirm / Date:	Not confirmed yet
	Current Version:	V5.72
	Current Date:	2014-08-02
	No:	
	Known Issues:	
	Firmware Version	V5.7x

Contents

Get RTSP H.264 Stream

Command Name	Get RTSP H.264 Stream
Command URL	rtsp://<Camera IP>:<HTTP port>/live/0/h264.sdp rtsp://<Camera IP>:<HTTP port>/live/1/h264.sdp rtsp://<Camera IP>:<HTTP port>/live/2/h264.sdp
Parameters	Null
Description	Get RTSP H.264 stream Can use RealPlayer to play the live stream. Can use QuickTime player to play the live stream. Can use VLC player to play the live stream.

Get RTSP MPEG4 Stream

Command Name	Get RTSP MPEG4 Stream
Command URL	rtsp://<Camera IP>:<HTTP port>/live/0/mpeg4.sdp rtsp://<Camera IP>:<HTTP port>/live/1/mpeg4.sdp rtsp://<Camera IP>:<HTTP port>/live/2/mpeg4.sdp
Parameters	Null
Description	Get RTSP MPEG4 stream Can use RealPlayer to play the live stream. Can use QuickTime player to play the live stream. Can use VLC player to play the live stream.
Response	

Get RTSP MJPEG Stream

Command Name	Get RTSP MJPEG Stream
Command URL	rtsp://<Camera IP>:<HTTP port>/live/0/mjpeg.sdp rtsp://<Camera IP>:<HTTP port>/live/1/mjpeg.sdp rtsp://<Camera IP>:<HTTP port>/live/2/mjpeg.sdp
Parameters	Null
Description	Get RTSP MJPEG stream Can use RealPlayer to play the live stream. Can use QuickTime player to play the live stream. Can use VLC player to play the live stream.
Response	

Get RTSP Audio Stream

Command Name	Get RTSP Audio Stream
Command URL	rtsp://<Camera IP>:<HTTP port>/live/0/audio.sdp rtsp://<Camera IP>:<HTTP port>/live/1/audio.sdp rtsp://<Camera IP>:<HTTP port>/live/2/audio.sdp
Parameters	Null
Description	Get RTSP audio stream Can use RealPlayer to play the live stream. Can use QuickTime player to play the live stream. Can use VLC player to play the live stream.
Response	

Get HTTP MJPEG Stream

Command Name	Get HTTP MJPEG Stream
Command URL	http://<Camera IP>:<HTTP port>/live/0/mjpeg.jpg http://<Camera IP>:<HTTP port>/live/1/mjpeg.jpg http://<Camera IP>:<HTTP port>/live/2/mjpeg.jpg
Parameters	Null
Description	Get HTTP motion JPEG stream Can use VLC player to play the live stream, Can use Firefox, Safari etc. browser to play the live stream.
Response	

Get HTTP Snapshot Image

Command Name	Get HTTP Snapshot Image
Command URL	http://<Camera IP>:<HTTP port>/live/0/jpeg.jpg http://<Camera IP>:<HTTP port>/live/1/jpeg.jpg http://<Camera IP>:<HTTP port>/live/2/jpeg.jpg
Parameters	Null
Description	Snapshot current image from Camera stream. This file is different every time.
Response	A file named jpeg.jpg

Get HTTP Alarm Stream

Command Name	Get HTTP Alarm Stream
Command URL	http://<Camera IP>:<HTTP port>/alarm.dat
Parameters	Null
Description	Get HTTP alarm event and motion detection stream
Response	

Get Video Parameters

Command Name	Get Video Parameters
Command URL	http://<Camera IP>/form/getVideo
Parameters	Null
Description	Get video parameters
Response	**000 Success** **100 Failed** **LIGHTFREQ=<value>** Frequency of light, valid value is: 50 - 50 Hz 60 - 60 Hz **HFLIP=<value>** Image mirror (horizontal flip), valid value is: 0 – Off 1 – On **VFLIP=<value>** Image vertical flip, valid value is: 0 – Off 1 – On **SENSORSIZE =<value>** Image sensor size, valid value is: NTSC – 720x480 PAL – 720x576 VGA – 640x480 HD720P – 1280x720 HD1080P – 1920x1080

Set Video Parameters

Command Name	Set Video Parameters
Command URL	http://<Camera IP>/form/setVideo?<Param1>&<Param2>& …
Parameters	**LIGHTFREQ=<value>** Frequency of light, valid value is: 50 - 50 Hz 60 - 60 Hz **HFLIP=<value>** Image mirror (horizontal flip), valid value is: 0 – Off 1 – On **VFLIP=<value>** Image vertical flip, valid value is: 0 – Off 1 – On
Description	Set video parameters
Response	**000 Success** **100 Failed**

Get Microphone Parameters

Command Name	Get Microphone Parameters
Command URL	http://<Camera IP>/form/getMicrophone
Parameters	Null
Description	Get Microphone parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Open or close the microphone, valid value is: 0 – Disable 1 – Enable **VOLUME=<value>** Microphone volume, valid value is: 0~100

Set Microphone Parameters

Command Name	Set Microphone Parameters
Command URL	http://<Camera IP>/form/setMicrophone?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Open or close the microphone, valid value is: 0 – Disable 1 – Enable **VOLUME=<value>** Microphone volume, valid value is: 0~100
Description	Set microphone parameters
Response	**000 Success** **100 Failed**

Get Speaker Parameters

Command Name	Get Speaker Parameters
Command URL	http://<Camera IP>/form/getSpeaker
Parameters	Null
Description	Get speaker parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Open or close the speaker, valid value is: 0 – Disable 1 – Enable **VOLUME=<value>** Speaker volume, valid value is: 0~100

Set Speaker Parameters

Command Name	Set Speaker Parameters
Command URL	http://<Camera IP>/form/setSpeaker?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Open or close the speaker, valid value is: 0 – Disable 1 – Enable **VOLUME=<value>** Speaker out volume, valid value is: 0~100
Description	Set speaker parameters
Response	**000 Success** **100 Failed**

Get Privacy Mode

Command Name	**Get Privacy Mode**
Command URL	http://<Camera IP>/form/getPrivacy
Parameters	Null
Description	Get privacy mode
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or disable privacy mode, valid value is: 0 – Disable privacy mode 1 – Enable privacy mode

Set Privacy Mode

Command Name	**Set Privacy Mode**
Command URL	http://<Camera IP>/form/setPrivacy?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or disable privacy mode, valid value is: 0 – Disable privacy mode 1 – Enable privacy mode
Description	Set privacy mode
Response	**000 Success** **100 Failed**

Get LED Parameters

Command Name	**Get LED Parameters**
Command URL	http://<Camera IP>/form/getLed
Parameters	Null
Description	Get LED parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Turn on or turn off LED light, valid value is: 0 – Turn off LED light 1 – Turn on LED light

Set LED Parameters

Command Name	**Set LED Parameters**
Command URL	http://<Camera IP>/form/setLed?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Open or close LED light, valid value is: 0 – Turn off LED light 1 – Turn on LED light
Description	Set LED parameters
Response	**000 Success** **100 Failed**

Get Stream Parameters

Command Name	Get Stream Parameters
Command URL	http://<Camera IP>/form/getStream
Parameters	**TYPE=<value>** Stream type, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream
Description	Get stream parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Stream can been enabled or not, valid value is: 0 - Disable 1 - Enable **SIZE=<value>** Value is the size of video, valid value is: For SCNC3705 version: FSIZE – Full size (640x480) HSIZE – Half size (480x360) QSIZE – Quarter size (320x240) QQSIZE –Quarter and quarter size (160x120) QCIF –QCIF size (176x144) For SCNC3804, SCNC3805, SCNC2800 version: HDSIZE – HD size (1280x720) FSIZE – Full size (768x432) QSIZE – Quarter size (512x288) QHSIZE – Quarter and half size (480x270) QQSIZE –Quarter and quarter size (256x144) QCIF –QCIF size (176x144) For SCNC3904, SCNC3905, SCNC2900 version: HHDSIZE – High HD size (1920x1080) HDSIZE – HD size (1280x720) FSIZE – Full size (768x432) QSIZE – Quarter size (512x288) QHSIZE – Quarter and half size (480x270) QQSIZE –Quarter and quarter size (256x144) QCIF –QCIF size (176x144) **FRAMERATE=<value>**

	Max frame rate, valid value is: 30 – 30 fps 25 – 25 fps 20 – 20 fps 15 – 15 fps 10 – 10 fps 8 – 8 fps 6 – 6 fps 5 – 5 fps 4 – 4 fps 3 – 3 fps 2 – 2 fps 1 – 1 fps **H264BITRATE=<value>** H264 bitrate of bandwidth, valid value is: 4096 - 4096 kbps 2048 - 2048 kbps 1536 - 1536 kbsp 1024 - 1024 kbsp 768 - 768 kbps 512 - 768 kbsp 256 - 256 kbps 128 - 128 kbsp 64 - 64 kbsp **MPEG4BITRATE=<value>** MPEG4 bitrate of bandwidth, valid value is: 4096 - 4096 kbps 2048 - 2048 kbps 1536 - 1536 kbsp 1024 - 1024 kbsp 768 - 768 kbps 512 - 768 kbsp 256 - 256 kbps 128 - 128 kbsp 64 - 64 kbsp **MJPEGQUALITY=<value>** MJPEG video quality, valid value is: 20 – 100 **JPEGQUALITY=<value>** Snapshot image quality, valid value is: 20 – 100 **AUDIOCODEC=<value>** Audio codec, valid value is: NONE - Disable AACLC - AAC-LC

	AUDIOBITRATE=<value> Audio bitrate, valid value is: 40000 - 40kbps 32000 - 32kbps 24000 - 24kbps 16000 - 16kbps **AUTH=<value>** Stream does or does not needs authentication, valid value is: 0 – Disable 1 – Enable **H264BUFFERSEC =<value>** Prerecord seconds, valid value is 0, 3, 5 and 10

Set Stream Parameters

Command Name	Set Stream Parameters
Command URL	http://<Camera IP>/form/setStream?<Param1>&<Param2>& …
Parameters	**TYPE=<value>** 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **ENABLE=<value>** Stream can been visited or not, (The value must be 1), valid value is: 0 - Disable 1 - Enable **SIZE=<value>** Value is the size of Video, valid value is: For VGA version: FSIZE – Full size (640x480) HSIZE – Half size (480x360) QSIZE – Quarter size (320x240) QQSIZE – Quarter and quarter size (160x120) QCIF – QCIF size (176x144) For HD720P version: HDSIZE – HD size (1280x720) FSIZE – Full size (768x432) HSIZE – Half size (640x360) QSIZE – Quarter size (512x288) QHSIZE – Quarter and half size (480x270) QQSIZE – Quarter and quarter size (256x144) QCIF – QCIF size (176x144) For HD1080P version: HHDSIZE – High HD size (1920x1080) HDSIZE – HD size (1280x720) FSIZE – Full size (768x432) HSIZE – Half size (640x360) QSIZE – Quarter size (512x288) QHSIZE – Quarter and half size (480x270) QQSIZE – Quarter and quarter size (256x144) QCIF – QCIF size (176x144) **FRAMERATE=<value>** Max frame rate, valid value is:

	30 – 30 fps 25 – 25 fps 20 – 20 fps 15 – 15 fps 10 – 10 fps 8 – 8 fps 6 – 6 fps 5 – 5 fps 4 – 4 fps 3 – 3 fps 2 – 2 fps 1 – 1 fps **H264BITRATE=<value>** H264 bitrate of bandwidth, valid value is: 4096 - 4096 kbps 2048 - 2048 kbps 1536 - 1536 kbsp 1024 - 1024 kbsp 768 - 768 kbps 512 - 768 kbsp 256 - 256 kbps 128 - 128 kbsp 64 - 64 kbsp **MPEG4BITRATE=<value>** MPEG4 bitrate of bandwidth, valid value is: 4096 - 4096 kbps 2048 - 2048 kbps 1536 - 1536 kbsp 1024 - 1024 kbsp 768 - 768 kbps 512 - 768 kbsp 256 - 256 kbps 128 - 128 kbsp 64 - 64 kbsp **MJPEGQUALITY=<value>** MJPEG video quality, valid value is: 20 – 100 **JPEGQUALITY=<value>** Snapshot image quality, valid value is: 20 – 100 **AUDIOCODEC=<value>** Audio codec, valid value is: NONE - Disable AACLC - AAC-LC **AUDIOBITRATE=<value>**

	Audio bitrate, valid value is: 40000 - 40kbps 32000 - 32kbps 24000 - 24kbps 16000 - 16kbps **AUTH=<value>** Stream does or does not needs authentication, valid value is: 0 - Disable 1 – Enable **H264BUFFERSEC =<value>** Prerecord seconds, valid value is 0, 3, 5 and 10
Description	Set stream parameters
Response	**000 Success** **100 Failed**

Get OSD Parameters

Command Name	Get OSD Parameters
Command URL	http://<Camera IP>/form/getOsd
Parameters	Null
Description	Get OSD parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or disable OSD function, valid value is: 0 – Disable OSD 1 – Enable OSD **ENABLETIME=<value>** Display date and time or not, valid value is: 0 – Disable display date and time 1 – Enable display date and time **ENABLESYSTEMNAME=<value>** Display system name or not, valid value is: 0 – Disable display system name 1 – Enable display system name **ENABLESTRING=<value>** Display text or not, valid value is: 0 – Disable display text 1 – Enable display text **STRING=<value>** Display text, valid value is: 0-24 characters

Set OSD Parameters

Command Name	Set OSD Parameters
Command URL	http://<Camera IP>/form/setOsd?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable OSD function, valid value is: 0 – Disable OSD 1 – Enable OSD **ENABLETIME=<value>** Display date and time or not, valid value is: 0 – Disable display date and time 1 – Enable display date and time **ENABLESYSTEMNAME=<value>** Display system name or not, valid value is: 0 – Disable display system name 1 – Enable display system name **ENABLESTRING=<value>** Display appointed words or not, valid value is: 0 – Disable display text 1 – Enable display text **STRING=<value>** Display text, valid value is: 0-24 characters
Description	Set OSD parameters
Response	**000 Success** **100 Failed**

Get Night Vision Parameters

Command Name	Get Night Vision Parameters
Command URL	http://<Camera IP>/form/getNightVision
Parameters	Null
Description	Get night vision parameters
Response	**000 Success** **100 Failed** **IRLED=<value>** Infrared LED control, valid value is: 0 – Off Turn off Infrared LED 1 – On Turn on Infrared LED 2 – Auto Control infrared LED automatically **BWMODE=<value>** Black and white mode control, valid value is: 0 – Off Never use black and white mode 1 – On Always use black and white mode 2 – Auto Control black and white mode automatically **MOONLIGHT=<value>** Moon light mode control, valid value is: 0 – Off Never use moon light mode 1 – On Always use moon light mode 2 – Auto Control moon light mode automatically **IRCUT=<value>** IR-cut control, valid value is: 0 – Off Always set to color filter 1 – On Always set to IR filter 2 – Auto Control IR-cut automatic

Set Night Vision Parameters

Command Name	Set Night Vision Parameters
Command URL	http://<Camera IP>/form/setNightVision?<Param1>&<Param2>& …
Parameters	**IRLED=<value>** Infrared LED control, valid value is: 0 – Off Turn off Infrared LED 1 – On Turn on Infrared LED 2 – Auto Control infrared LED automatically **BWMODE=<value>** Black and White mode control, valid value is: 0 – Off Never use black and white mode 1 – On Always use black and white mode 2 – Auto Control black and white mode automatically **MOONLIGHT=<value>** Moon light mode control, valid value is: 0 – Off Never use moon light mode 1 – On Always use moon light mode 2 – Auto Control moon light mode automatically **IRCUT=<value>** IR-cut Control, valid value is: 0 – Off Always set to color filter 1 – On Always set to IR filter 2 – Auto Control IR-cut automatic
Description	Set night vision parameters
Response	**000 Success** **100 Failed**

Get WiFi Parameters

Command Name	Get WiFi Parameters
Command URL	http://<Camera IP>/form/getWlan
Parameters	Null
Description	Get WiFi parameters
Response	**000 Success** **100 Failed** **ENAB LE=<value>** Enable/Disable WiFi function, valid value is: 0 – Disable Disabled WiFi function 1 – Enable Enabled WiFi function **SSID=<value>** SSID of WiFi, valid value is: 1~32 character **MODE=<value>** WiFi type, valid value is: ADHOC - Adhoc mode INFRA – Infrastructure mode **SECURITY=<value>** Security type of WiFi, valid value is: OFF – Off WEP64 – WEP 64bit WEP128 – WEP 128bit WPA-PSK – WPA-PSK WPA2-PSK – WPA2-PSK **ENCRYPTION=<value>** Encryption type of WPA KEY, valid value is: TKIP – TKIP for WPA/WPA2 AES – AES for WPA/WPA2 **AUTHTYPE=<value>** WEP authentication type, valid value is: AUTO – Automatically select Open System or Shared Key OPEN – Open System SHARED – Shared Key **KEYTYPE=<value>** WEP Key format, valid value is: ASCII – AscII type key HEX – Hex type key **WEPIDX=<value>**

	WEP Key index, valid value is: 1 ~ 4 **WEPKEY=<value>** WEP Key, valid value is: 5 character - for WEP64bit ASCII 10 character - for WEP64bit HEX 13 character - for WEP128bit ASCII 26 character - for WEP128bit HEX **WPAKEY=<value>** WPA Key, valid value is: 8~64 character

Set WiFi Parameters

Command Name	Set WiFi Parameters
Command URL	http://<Camera IP>/form/setWlan?<Param1>&<Param2>& …
Parameters	**ENAB LE=<value>** Enable/Disable WiFi function, valid value is: 0 – Disable Disabled WiFi function 1 – Enable Enabled WiFi function **SSID=<value>** SSID of WiFi, valid value is: 1~32 character **MODE=<value>** WiFi type, valid value is: ADHOC - Adhoc mode INFRA – Infrastructure mode **SECURITY=<value>** Security type of WiFi, valid value is: OFF – Off WEP64 – WEP 64bit WEP128 – WEP 128bit WPA-PSK – WPA-PSK WPA2-PSK – WPA2-PSK **ENCRYPTION=<value>** Encryption type of WPA KEY, valid value is: TKIP – TKIP for WPA/WPA2 AES – AES for WPA/WPA2 **AUTHTYPE=<value>** WEP authentication type, valid value is: AUTO – Automatically select Open System or Shared Key OPEN – Open System SHARED – Shared Key **KEYTYPE=<value>** WEP Key format, valid value is: ASCII – AscII type key HEX – Hex type key **WEPIDX=<value>** WEP Key index, valid value is: 1 ~ 4 **WEPKEY=<value>** WEP Key, valid value is: 5 character - for WEP64bit ASCII

	10 character - for WEP64bit HEX 13 character - for WEP128bit ASCII 26 character - for WEP128bit HEX **WPAKEY=<value>** WPA Key, valid value is: 8~64 character
Description	Set WiFi parameters
Response	**000 Success** **100 Failed**

Get WiFi Status

Command Name	Get WiFi Status
Command URL	http://<Camera IP>/form/getWlanStatus
Parameters	Null
Description	Get WiFi status
Response	**000 Success** **100 Failed** **LINK=<value>** Link Status, valid value is: 0 – No connection 1 – Connected **SSID=<value>** Wireless SSID name **MODE=<value>** Wireless mode, valid value is: ADHOC – Adhoc mode INFRA – Infrastructure mode **CHANNEL=<value>** Current wireless channel **FREQ=<value>** Current wireless frequency, valid value is: 2.4120G 2.4170G 2.4220G 2.4270G 2.4320G 2.4370G 2.4420G 2.4470G 2.4520G 2.4570G 2.4620G 2.4670G 2.4720G 2.4770G **QUALITY= <value>** Signal quality of essid, valid value is: 0 ~ 100 **SECURITY= <value>**

	Wireless security mode, valid value is: OFF – Off WEP64 – WEP 64bit WEP128 – WEP 128bit WPA-PSK – WPA-PSK WPA2-PSK – WPA2-PSK **IPMODE=<value>** The type of getting IP address, valid value is: DYNAMIC – Obtain an IP address automatically(DHCP) STATIC – Use static IP address **IPADDR=<value>** IP address, valid value is: IP address data **NETMASK=<value>** Subnet mask, valid value is: IP address data **GATEWAY=<value>** Gateway, valid value is: IP address data or empty **DNS1=<value>** Primary DNS IP address, valid value is: IP address data or empty **DNS2=<value>** Secondary DNS IP address, valid value is: IP address data or empty

Wifi Test

Command Name	**Wifi Test**
Command URL	http://<Camera IP>/form/wlanTestStart
Parameters	Null
Description	Wifi Test
Response	**000 Success** **100 Failed**

Get Wifi Test Status

Command Name	**Get Wifi Test Status**
Command URL	http://<Camera IP>/form/getWlanTestStatus
Parameters	Null
Description	Wifi Test Status
Response	**000 Success** **100 Failed** **101 Busy**

Wifi Scan

Command Name	**Wifi Scan**
Command URL	http://<Camera IP>/form/wlanScan
Parameters	Null
Description	Wifi Scan
Response	**000 Success** **100 Failed**

Get Wifi List

Command Name	Get Wifi List
Command URL	http://<Camera IP>/form/getWlanList
Parameters	Null
Description	Get wifi list
Response	**000 Success** **001 Busy** **100 Failed** **NUM=<value>** Number of essid **ADDRESS0=<value>** Address of essid0 **Protocol0=<value>** Protocol of essid0 **ESSID0=<value>** Name of essid0 **MODE0=<value>** Mode of essid0, valid value is: Ad-Hoc Managed **QUALITY0=<value>** Signal quality of essid0, valid value is: 0 ~ 100 **AUTH0=<value>** Auth mode of essid0, valid value is: OPEN WPAPSK WPA2PSK **ENCRYPT0=<value>** Encrypt mode of essid0, valid value is: NONE WEP TKIP AES TKIP/AES … …

Get Ethernet Status

Command Name	Get Ethernet Status
Command URL	http://<Camera IP>/form/getEthernetStatus
Parameters	Null
Description	Get ethernet status
Response	**000 Success** **100 Failed** **LINK=<value>** Link Status, valid value is: 0 – No connection 1 – Connected

Get TCP/IP Parameters

Command Name	Get TCP/IP Parameters
Command URL	http://<Camera IP>/form/getTcpip
Parameters	Null
Description	Get TCP/IP parameters
Response	**000 Success** **100 Failed** **PROTO=<value>** The type of getting IP address, valid value is: DHCP – Obtain an IP address automatically(DHCP) STATIC –Use static IP address **IPADDR=<value>** IP address, valid value is: IP address data **NETMASK=<value>** Subnet mask, valid value is: IP address data **GATEWAY=<value>** Gateway, valid value is: IP address data or empty **DNSPROTO=<value>** The type of getting DNS Server IP address, valid value is: DYNAMIC – Obtain DNS server address automatically STATIC – Use static DNS server address **DNS1=<value>** Primary DNS IP address, valid value is: IP address data or empty **DNS2=<value>** Secondary DNS IP address, valid value is: IP address data or empty

Set TCP/IP Parameters

Command Name	Set TCP/IP Parameters
Command URL	http://<Camera IP>/form/setTcpip?<Param1>&<Param2>& …
Parameters	**PROTO=<value>** The type of getting IP address, valid value is: DHCP – Obtain an IP address automatically(DHCP) STATIC –Use static IP address **IPADDR=<value>** IP address, valid value is: IP address data **NETMASK=<value>** Subnet mask, valid value is: IP address data **GATEWAY=<value>** Gateway, valid value is: IP address data or empty **DNSPROTO=<value>** The type of getting DNS Server IP address, valid value is: DYNAMIC – Obtain DNS Server address automatically STATIC – Use static DNS server address **DNS1=<value>** Primary DNS IP address, valid value is: IP address data or empty **DNS2=<value>** Secondary DNS IP address, valid value is: IP address data or empty
Description	Set TCP/IP parameters
Response	**000 Success** **100 Failed**

Get TCP/IP Status

Command Name	Get TCP/IP Status
Command URL	http://<Camera IP>/form/getTcpipStatus
Parameters	Null
Description	Get TCP/IP status
Response	**000 Success** **100 Failed** **PROTO=<value>** The type of getting IP address, valid value is: DHCP – Obtain an IP address automatically(DHCP) STATIC – Use static IP address **IPADDR=<value>** IP address, valid value is: IP address data **NETMASK=<value>** Subnet mask, valid value is: IP address data **GATEWAY=<value>** Gateway, valid value is: IP address data or empty **DNS1=<value>** Primary DNS IP address, valid value is: IP address data or empty **DNS2=<value>** Secondary DNS IP address, valid value is: IP address data or empty

Get HTTP Port

Command Name	**Get HTTP Port**
Command URL	http://<Camera IP>/form/getHttpPort
Parameters	Null
Description	Get HTTP port
Response	**000 Success** **100 Failed** **PORT=<value>** HTTP port number, valid value is: 1~65535

Set HTTP Port

Command Name	**Set HTTP Port**
Command URL	http://<Camera IP>/form/setHttpPort?<Param1>&<Param2>& …
Parameters	**PORT=<value>** HTTP port number, valid value is: 1~65535
Description	Set HTTP port
Response	**000 Success** **100 Failed**

Get RTP Port Range

Command Name	Get RTP Port range
Command URL	http://<Camera IP>/form/getRtpPort
Parameters	Null
Description	Get RTP port range
Response	**000 Success** **100 Failed** **RTPPORTSTART=<value>** Min RTP port range, valid value is: 1~65535 **RTPPORTEND=<value>** Max RTP port range, valid value is: 1~65535

Set RTP Port Range

Command Name	Set RTP Port Range
Command URL	http://<Camera IP>/form/setRtpPort?<Param1>&<Param2>& …
Parameters	**RTPPORTSTART=<value>** Min RTP port range, valid value is: 1~65535 **RTPPORTEND=<value>** Max RTP port range, valid value is: 1~65535
Description	Set RTP port range
Response	**000 Success** **100 Failed**

Get DDNS Parameters

Command Name	Get DDNS Parameters
Command URL	http://<Camera IP>/form/getDdns
Parameters	Null
Description	Get DDNS parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or disable DDNS function, valid value is: 0 – Disable DDNS 1 – Enable DDNS **PROVIDER=<value>** DDNS provider, valid value is: dtdns.com dyndns.org no-ip.com 3322.org **HOSTNAME=<value>** Hostname you register, valid value is: 0-128 characters **USERNAME=<value>** User name you register, valid value is: 0-128 characters **PASSWORD=<value>** Password you register, valid value is: 0-128 characters

Set DDNS Parameters

Command Name	Set DDNS Parameters
Command URL	http://<Camera IP>/form/setDdns?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or disable DDNS function, valid value is: 0 – Disable DDNS 1 – Enable DDNS **PROVIDER=<value>** DDNS provider, valid value is: dtdns.com dyndns.org no-ip.com 3322.org **HOSTNAME=<value>** Hostname you register, valid value is: 0-128 characters **USERNAME=<value>** User name you register, valid value is: 0-128 characters **PASSWORD=<value>** Password you register, valid value is: 0-128 characters
Description	Set DDNS parameters
Response	**000 Success** **100 Failed**

Get DDNS Status

Command Name	Get DDNS Status
Command URL	http://<Camera IP>/form/getDdnsStatus
Parameters	Null
Description	Get DDNS status
Response	**000 Success** **100 Failed** **STATUS=<value>** DDNS status, valid value is: 0 – DDNS function is disabled 1 – DDNS is updating 2 – DDNS updated successfully

Get UPnP Parameters

Command Name	Get UPnP Parameters
Command URL	http://<Camera IP>/form/getUpnp
Parameters	Null
Description	Get UPnP parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or disable UPnP function, valid value is: 0 – Disable UPnP 1 – Enable UPnP **HTTPPORTFORWARD=<value>** Enable or disable gateway HTTP/RTSP port forwarding, valid value is: 0 – Disable 1 – Enable **MINEXTHTTPPORT=<value>** Min external HTTP port range of router, valid value is: 1~65535 **MAXEXTHTTPPORT=<value>** Max external HTTP port range of router, valid value is: 1~65535 **RTPPORTFORWARD=<value>** Enable or disable gateway RTP port forwarding, valid value is: 0 – Disable 1 – Enable

Set UPnP Parameters

Command Name	Set UPnP Parameters
Command URL	http://<Camera IP>/form/setUpnp?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or disable UPnP function, valid value is: 0 – Disable UPnP 1 – Enable UPnP **HTTPPORTFORWARD=<value>** Enable or disable gateway HTTP/RTSP port forwarding, valid value is: 0 – Disable 1 – Enable **MINEXTHTTPPORT=<value>** Min external HTTP port range of router, valid value is: 1~65535 **MAXEXTHTTPPORT=<value>** Max external HTTP port range of router, valid value is: 1~65535 **RTPPORTFORWARD=<value>** Enable or disable gateway RTP port forwarding, valid value is: 0 – Disable 1 – Enable
Description	Set UPnP parameters
Response	**000 Success** **100 Failed**

Get UPnP Status

Command Name	Get UPnP Status
Command URL	http://<Camera IP>/form/getUpnpStatus
Parameters	Null
Description	Get UPnP status
Response	**000 Success** **100 Failed** **STATUS=<value>** UPnP Status, valid value is: 0 – UPnP function is disabled 1 – Can't find any router or gateway 2 – Found router or gateway **EXTIPADDR=<value>** Router Internet IP address, valid value is: IP address data **EXTPORT=<value>** Router external port which is port forwarding to camera, valid value is: 0~65535

Get RTHP Parameters (still unsupported)

Command Name	**Get RTHP Parameters**
Command URL	http://<Camera IP>/form/getRthpd
Parameters	Null
Description	Get RTHP parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or disable RTHP function, valid value is: 0 – Disable RTHP 1 – Enable RTHP **SERVER=<value>** Host name of RTHP server valid value is: 0-128 characters **PORT=<value>** Port number, valid value is: 1~65535

Set RTHP Parameters (still unsupported)

Command Name	Set RTHP Parameters
Command URL	http://<Camera IP>/form/setRthpd?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or disable RTHP function, valid value is: 0 – Disable RTHP 1 – Enable RTHP **SERVER=<value>** Host name of RTHP server valid value is: 0-128 characters **PORT=<value>** Port number, valid value is: 1~65535
Description	Set RTHP parameters
Response	**000 Success** **100 Failed**

Get Storage Parameters

Command Name	Get Storage Parameters
Command URL	http://<Camera IP>/form/getStorage
Parameters	Null
Description	Get storage parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable/Disable storage function, valid value is: 0 – Disable Disabled Storage function 1 – Enable Enabled Storage function **DEVICE =<value>** Select which storage device, valid value is: nas – Select NAS as storage device sd – Select SD card as storage device **NASPATH=<value>** NAS Path such as //192.168.168.50/ipcam_files, valid value is: 0-128 characters **NASAUTH=<value>** NAS needs authentication or not, valid value is: 0 – need not authentication 1 – needs authentication **NASUSERNAME=<value>** User name of NAS, valid value is: 0-128 characters **NASPASSWORD=<value>** Password of NAS, valid value is: 0-128 characters **DIRECTORY=<value>** Store directory, valid value is: 0-128 characters **MAXSPACE=<value>** **(UNSUPPORTED AT THIS TIME, DO NOT USE)** Max store space, valid value is: 0 – Unlimited 1000 – 1GB 2000 – 2GB 4000 – 4GB 8000 – 8GB

	16000 – 16GB 32000 – 32GB 64000 – 64GB 128000 – 128GB 256000 – 256GB 512000 – 512GB 1024000 – 1TB **MAXFILES=<value>** Max store files, valid value is: 0 – Unlimited 1000 – 1000 files 2000 – 2000 files 3000 – 3000 files 4000 – 4000 files 5000 – 5000 files (VALUES LARGER THAN 5000 are UNSUPPORTED) 10000 – 10000 files 20000 – 20000 files

Set Storage Parameters

Command Name	Set Storage Parameters
Command URL	http://<Camera IP>/form/setStorage?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable/Disable storage function, valid value is: 0 – Disable Disabled Storage function 1 – Enable Enabled Storage function **DEVICE =<value>** Select which storage device, valid value is: nas – Select NAS as storage device sd – Select SD card as storage device **NASPATH=<value>** NAS Path such as //192.168.168.50/ipcam_files, valid value is: 0-128 characters **NASAUTH=<value>** NAS needs authentication or not, valid value is: 0 – need not authentication 1 – needs authentication **NASUSERNAME=<value>** User name of NAS, valid value is: 0-128 characters **NASPASSWORD=<value>** Password of NAS, valid value is: 0-128 characters **DIRECTORY=<value>** Store directory, valid value is: 0-128 characters **MAXSPACE=<value>** **(UNSUPPORTED AT THIS TIME, DO NOT USE)** Max store space, valid value is: 0 – Unlimited 1000 – 1GB 2000 – 2GB 4000 – 4GB 8000 – 8GB 16000 – 16GB 32000 – 32GB 64000 – 64GB 128000 – 128GB 256000 – 256GB

	512000 – 512GB 1024000 – 1TB **MAXFILES=<value>** Max store files, valid value is: 0 – Unlimited 1000 – 1000 files 2000 – 2000 files 3000 – 3000 files 4000 – 4000 files 5000 – 5000 files (VALUES LARGER THAN 5000 are UNSUPPORTED) 10000 – 10000 files 20000 – 20000 files
Description	Set storage parameters
Response	**000 Success** **100 Failed**

Get Storage Status

Command Name	Get SD Card Status
Command URL	http://<Camera IP>/form/getStorageStatus
Parameters	Null
Description	Get Storage Status
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable/Disable storage function, valid value is: 0 – Disable Disabled Storage function 1 – Enable Enabled Storage function **DEVICE =<value>** Select which storage device, valid value is: nas – Select NAS as storage device sd – Select SD card as storage device **READY=<value>** valid value is: yes – storage device is ready no – storage device is not ready **TOTAL=<value>** Megabytes of total storage space **USED=<value>** Megabytes already used **AVAILABLE=<value>** Megabytes still available

Get Storage File List

Command Name	Get Storage File List
Command URL	http://<Camera IP>/form/getStorageFileList
Parameters	**TYPE=<value>** valid value is: 0 – All files 1 – Alarm Snapshot 2 – Periodic Snapshot 3 – Alarm Recording 4 – Continuous Recording
Description	Get storage file list
Response	**000 Success** **100 Failed** **NUM=<value>** Number of files **NAME0=<value>** Name of file0 **SIZE0=<value>** Size of file0 **NAME1=<value>** Name of file1 **SIZE1=<value>** Size of file1 … … …

SD Card Format

Command Name	SD Card Format
Command URL	http://<Camera IP>/form/sdFormat
Parameters	Null
Description	Format SD card
Response	**000 Success** **100 Failed**

Get SD Card Format Status

Command Name	Get SD Card Format Status
Command URL	http://<Camera IP>/form/getSdFormatStatus
Parameters	Null
Description	Get SD card format status
Response	**000 Success** **100 Failed** **101 Busy**

Get Digital I/O Parameters

Command Name	Get Digital I/O Parameters
Command URL	http://<Camera IP>/form/getDigitalIo
Parameters	Null
Description	Get Digital I/O Parameters
Response	**000 Success** **100 Failed** **INPUT=<value>** Enable or disable digital input function, valid value is: 0 – Disable digital input 1 – Enable digital input **INPUTACTIVE=<value>** Digital input's active state, valid value is: 0 – Low 1 – High **OUTPUT=<value>** Enable or disable digital output function, valid value is: 0 – Disable digital output 1 – Enable digital output **OUTPUTACTIVE=<value>** Digital output’s active state, valid value is: 0 – Open 1 – Grounded

Set Digital I/O Parameters

Command Name	Set Digital I/O Parameters
Command URL	http://<Camera IP>/form/setDigitalIo?<Param1>&<Param2>& …
Parameters	**INPUT=<value>** Enable or disable digital input function, valid value is: 0 – Disable digital input 1 – Enable digital input **INPUTACTIVE=<value>** Digital input's active state, valid value is: 0 – Low 1 – High **OUTPUT=<value>** Enable or disable digital output function, valid value is: 0 – Disable digital output 1 – Enable digital output **OUTPUTACTIVE=<value>** Digital output’s active state, valid value is: 0 – Open 1 – Grounded
Description	Set digital I/O parameters
Response	**000 Success** **100 Failed**

Get Motion Detection Parameters

Command Name	Get Motion Detection Parameters
Command URL	http://<Camera IP>/form/getMotion
Parameters	**WINDOW=<value>** Window number, valid value is: 1~4
Description	Get Motion detection parameters
Response	**000 Success** **100 Failed** **WINDOW=<value>** Window number, valid value is: 1~4 **ENABLE=<value>** Enable or disable motion detection of this window, valid value is: 0 – Disable motion detection 1 – Enable motion detection **TOP=<value>** Top coordinate, valid value is: 0~479 **LEFT=<value>** Left coordinate, valid value is: 0~639 **BOTTOM=<value>** Bottom coordinate, valid value is: 0~479 **RIGHT=<value>** Right coordinate, valid value is: 0~639 **THRESHOLD=<value>** Threshold of motion detection, valid value is: 1~100 **SENSITIVITY=<value>** Sensitivity of motion detection, valid value is: 1~100

Set Motion Detection Parameters

Command Name	Set Motion Detection Parameters
Command URL	http://<Camera IP>/form/setMotion?<Param1>&<Param2>& …
Parameters	**WINDOW=<value>** Window number, valid value is: 1~4 **ENABLE=<value>** Enable or disable motion detection of this window, valid value is: 0 – Disable motion detection 1 – Enable motion detection **TOP=<value>** Top coordinate, valid value is: 0~479 **LEFT=<value>** Left coordinate, valid value is: 0~639 **BOTTOM=<value>** Bottom coordinate, valid value is: 0~479 **RIGHT=<value>** Right coordinate, valid value is: 0~639 **THRESHOLD=<value>** Threshold of motion detection, valid value is: 1~100 **SENSITIVITY=<value>** Sensitivity of motion detection, valid value is: 1~100
Description	Set motion detection parameters
Response	**000 Success** **100 Failed**

Get Schedule Parameters

Command Name	Get Schedule Parameters
Command URL	http://<Camera IP>/form/getSchedule
Parameters	**ID=<value>** Schedule ID, valid value is: 1~4
Description	Get schedule parameters
Response	**000 Success** **100 Failed** **ID=<value>** Schedule ID, valid value is: 1~4 **ENABLE<n>=<value>** Enable or disable schedule time, valid value is: 0 – Disable 1 – Enable **SCHEDTYPE<n>=<value>** Schedule type, valid value is: 0 – Week mode 1 – Date mode **STARTHOUR<n>=<value>** Start time hour, valid value is: 0~24 **STARTMIN<n>=<value>** Start time minute, valid value is: 0~59 **ENDHOUR<n>=<value>** End time hour, valid value is: 0~24 **ENDMIN<n>=<value>** End time minute, valid value is: 0~59 **DAYS<n>=<value>** Bit0 – Sunday Bit1 – Monday Bit2 – Tuesday Bit3 – Wednesday Bit4 –Thursday Bit5 – Friday

	Bit6 – Saturday **DATE<n>=<value>** YYYYMMDD Note: **<n>** Rule index, valid value is:0-7

Set Schedule Parameters

Command Name	Set Schedule Parameters
Command URL	http://<Camera IP>/form/setSchedule?<Param1>&<Param2>& …
Parameters	**ID=<value>** Schedule ID, valid value is: 1~4 **ENABLE<n>=<value>** Enable or disable schedule time, valid value is: 0 – Disable 1 – Enable **SCHEDTYPE<n>=<value>** Schedule type, valid value is: 0 – Week mode 1 – Date mode **STARTHOUR<n>=<value>** Start time hour, valid value is: 0~24 **STARTMIN<n>=<value>** Start time minute, valid value is: 0~59 **ENDHOUR<n>=<value>** End time hour, valid value is: 0~24 **ENDMIN<n>=<value>** End time minute, valid value is: 0~59 **DAYS<n>=<value>** Bit0 – Sunday Bit1 – Monday Bit2 – Tuesday Bit3 – Wednesday Bit4 –Thursday Bit5 – Friday Bit6 – Saturday **DATE<n>=<value>** YYYYMMDD Note: **<n>** Rule index, valid value is:0-7
Description	Set schedule parameters

Response	**000 Success** **100 Failed**

Get EMail Alarm Sending Parameters

Command Name	Get EMail Alarm Sending Parameters
Command URL	http://<Camera IP>/form/getEmailAlarmSending
Parameters	Null
Description	Get EMail Alarm Sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream be used when snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to keep sending images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to be sent to per second after alarm, valid value is: 1~5 images/sec **INTERVAL=<value>** Alarm Interval of Email Alarm Sending, Valid Value is: 0~86400 (0: not limited) **SERVER=<value>** SMTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** SMTP port number, Valid Value is: 1~65535

	SSL=<value> SMTP Server uses Secure SSL connection or not, Valid Value is: 0 – don't use Secure SSL connection 1 – use Secure SSL connection **AUTH=<value>** SMTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters **SENDER=<value>** Sender Email address, Valid Value is: 0~64 characters **RECEIVER1=<value>** Receiver Email address 1, Valid Value is: 0~192 characters **RECEIVER2=<value>** Receiver Email address 2, Valid Value is: 0~192 characters **RECEIVER3=<value>** Receiver Email address 3, Valid Value is: 0~192 characters **SUBJECT=<value>** Email subject, Valid Value is: 0~128 characters **MESSAGE=<value>** Email content, Valid Value is: 0~128 characters

Set EMail Alarm Sending Parameters

Command Name	Set EMail Alarm Sending Parameters
Command URL	http://<Camera IP> /form/setEmailAlarmSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to be used for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to keep sending images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to be sent per second after alarm, valid value is: 1~5 images/sec **INTERVAL=<value>** Alarm Interval of Email Alarm Sending, Valid Value is: 0~86400 (0: no limit) **SERVER=<value>** SMTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** SMTP port number, Valid Value is: 1~65535 **SSL=<value>** SMTP Server uses Secure SSL connection or not, Valid Value is: 0 – don’t use Secure SSL connection 1 – use Secure SSL connection **AUTH=<value>**

	SMTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters **SENDER=<value>** Sender Email address, Valid Value is: 0~64 characters **RECEIVER1=<value>** Receiver Email address 1, Valid Value is: 0~192 characters **RECEIVER2=<value>** Receiver Email address 2, Valid Value is: 0~192 characters **RECEIVER3=<value>** Receiver Email address 3, Valid Value is: 0~192 characters **SUBJECT=<value>** Email subject, Valid Value is: 0~128 characters **MESSAGE=<value>** Email content, Valid Value is: 0~128 characters
Description	Set Email Alarm Sending Parameters of Camera
Response	**000 Success** **100 Failed**

Get EMail Periodic Sending Parameters

Command Name	Get EMail Periodic Sending Parameters
Command URL	http://<Camera IP>/form/getEmailPeriodSending
Parameters	Null
Description	Get EMail Periodic Sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to be sent to server per second after alarm, valid value is: 1~5 images/sec

	SERVER=<value> SMTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** SMTP port number, Valid Value is: 1~65535 **SSL=<value>** SMTP Server uses Secure SSL connection or not, Valid Value is: 0 – don't use Secure SSL connection 1 – use Secure SSL connection **AUTH=<value>** SMTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters **SENDER=<value>** Sender Email address, Valid Value is: 0~64 characters **RECEIVER1=<value>** Receiver Email address 1, Valid Value is: 0~192 characters **RECEIVER2=<value>** Receiver Email address 2, Valid Value is: 0~192 characters **RECEIVER3=<value>** Receiver Email address 3, Valid Value is: 0~192 characters **SUBJECT=<value>** Email subject, Valid Value is: 0~128 characters **MESSAGE=<value>** Email content, Valid Value is: 0~128 characters

Set EMail Periodic Sending Parameters

Command Name	Set EMail Periodic Sending Parameters
Command URL	http://<Camera IP> /form/setEmailPeriodSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **SERVER=<value>** SMTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** SMTP port number, Valid Value is:

	1~65535 **SSL=<value>** SMTP Server uses Secure SSL connection or not, Valid Value is: 0 – don't use Secure SSL connection 1 – use Secure SSL connection **AUTH=<value>** SMTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters **SENDER=<value>** Sender Email address, Valid Value is: 0~64 characters **RECEIVER1=<value>** Receiver Email address 1, Valid Value is: 0~192 characters **RECEIVER2=<value>** Receiver Email address 2, Valid Value is: 0~192 characters **RECEIVER3=<value>** Receiver Email address 3, Valid Value is: 0~192 characters **SUBJECT=<value>** Email subject, Valid Value is: 0~128 characters **MESSAGE=<value>** Email content, Valid Value is: 0~128 characters
Description	Set EMail Periodic Sending Parameters of Camera
Response	**000 Success** **100 Failed**

Get FTP Alarm Sending Parameters

Command Name	Get FTP Alarm Sending Parameters
Command URL	http://<Camera IP>/form/getFtpAlarmSending
Parameters	Null
Description	Get FTP Alarm Sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **INTERVAL=<value>** Alarm Interval of FTP Alarm Sending, Valid Value is: 0~86400 (0: not limit) **SERVER=<value>** FTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** FTP Server port number, Valid Value is: 1~65535 **REMOTEPATH=<value>**

	Remote path of server, valid value is: 0~64 characters **AUTH=<value>** FTP server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters

Set FTP Alarm Sending Parameters

Command Name	Set FTP Alarm Sending Parameters
Command URL	http://<Camera IP> /form/setFtpAlarmSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **INTERVAL=<value>** Alarm Interval of FTP Alarm Sending, Valid Value is: 0~86400 (0: not limit) **SERVER=<value>** FTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** FTP Server port number, Valid Value is: 1~65535 **REMOTEPATH=<value>** Remote path of server, valid value is: 0~64 characters **AUTH=<value>** FTP server needs authentication or not, Valid Value is:

	0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters
Description	Set FTP Alarm Sending Parameters of Camera
Response	**000 Success** **100 Failed**

Get FTP Periodic Sending Parameters

Command Name	Get FTP Periodic Sending Parameters
Command URL	http://<Camera IP>/form/getFtpPeriodSending
Parameters	Null
Description	Get FTP Periodic Sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **SERVER=<value>**

	FTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** FTP Server port number, Valid Value is: 1~65535 **REMOTEPATH=<value>** Remote path of server, valid value is: 0~64 characters **AUTH=<value>** FTP server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters

Set FTP Periodic Sending Parameters

Command Name	Set FTP Periodic Sending Parameters
Command URL	http://<Camera IP> /form/setFtpPeriodSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **SERVER=<value>** FTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** FTP Server port number, Valid Value is:

	1~65535 **REMOTEPATH=<value>** Remote path of server, valid value is: 0~64 characters **AUTH=<value>** FTP server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters
Description	Set FTP Periodic Sending Parameters of Camera
Response	**000 Success** **100 Failed**

Get HTTP Alarm Sending Parameters

Command Name	Get HTTP Alarm Sending Parameters
Command URL	http://<Camera IP>/form/getHttpAlarmSending
Parameters	Null
Description	Get HTTP Alarm Sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **INTERVAL=<value>** Alarm Interval of HTTP Alarm Sending, Valid Value is: 0~86400 (0: not limit) **URL=<value>** Define sending URL, valid value is: 0~127 characters **AUTH=<value>** HTTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters

Set HTTP Alarm Sending Parameters

Command Name	Set HTTP Alarm Sending Parameters
Command URL	http://<Camera IP> /form/setHttpAlarmSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **INTERVAL=<value>** Alarm Interval of HTTP Alarm Sending, Valid Value is: 0~86400 (0: not limit) **URL=<value>** Define sending URL, valid value is: 0~127 characters **AUTH=<value>** HTTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters
Description	Set HTTP Alarm Sending Parameters of Camera
Response	**000 Success** **100 Failed**

Get HTTP Periodic Sending Parameters

Command Name	Get HTTP Periodic Sending Parameters
Command URL	http://<Camera IP>/form/getHttpPeriodSending
Parameters	Null
Description	Get HTTP Periodic Sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **URL=<value>** Define sending URL, valid value is: 0~127 characters **AUTH=<value>** HTTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is:

	0~128 characters

Set HTTP Periodic Sending Parameters

Command Name	Set HTTP Periodic Sending Parameters
Command URL	http://<Camera IP> /form/setHttpPeriodSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **URL=<value>** Define sending URL, valid value is: 0~127 characters **AUTH=<value>** HTTP Server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters
Description	Set HTTP Periodic Sending Parameters of Camera
Response	**000 Success** **100 Failed**

Get Storage Alarm Snapshot Parameters

Command Name	Get Storage Alarm Snapshot Parameters
Command URL	http://<Camera IP>/form/getStorageAlarmSnapshot
Parameters	Null
Description	Get Storage Alarm Snapshot Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **INTERVAL=<value>** Alarm Interval of Email Alarm Sending, Valid Value is: 0~86400 (0: not limit) **FILENAME=<value>** Define file name of image, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 0 – Select serial number as suffix of file name 1 – Select time as suffix of file name

Set Storage Alarm Snapshot Parameters

Command Name	Set Storage Alarm Snapshot Parameters
Command URL	http://<Camera IP> /form/setStorageAlarmSnapshot?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **INTERVAL=<value>** Alarm Interval of Email Alarm Sending, Valid Value is: 0~86400 (0: not limit) **FILENAME=<value>** Define file name of image, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 0 – Select serial number as suffix of file name 1 – Select time as suffix of file name
Description	Set Storage Alarm Snapshot Parameters of Camera
Response	**000 Success** **100 Failed**

Get Storage Periodic Snapshot Parameters

Command Name	Get Storage Periodic Snapshot Parameters
Command URL	http://<Camera IP>/form/getStoragePeriodSnapshot
Parameters	Null
Description	Get Storage Periodic Snapshot Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **FILENAME=<value>**

	Define file name of image, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 0 – Select serial number as suffix of file name 1 – Select time as suffix of file name

Set Storage Periodic Snapshot Parameters

Command Name	Set Storage Periodic Snapshot Parameters
Command URL	http://<Camera IP> /form/setStoragePeriodSnapshot?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **HOUR=<value>** Interval time hour, valid value is: 0~24 **MIN=<value>** Interval time minute, valid value is: 0~59 **SEC=<value>** Interval time second, valid value is: 0~59 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **FRAMERATE=<value>** How many images to send per second after alarm, valid value is: 1~5 images/sec **FILENAME=<value>** Define file name of image, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is:

	0 – Select serial number as suffix of file name 1 – Select time as suffix of file name
Description	Set Storage Periodic Snapshot Parameters of Camera
Response	**000 Success** **100 Failed**

Get Storage Alarm Recording Parameters

Command Name	Get Storage Alarm Recording Parameters
Command URL	http://<Camera IP>/form/getStorageAlarmRecord
Parameters	Null
Description	Get Storage Alarm Recording Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **SPLITDURATION=<value>** Maximum number of seconds per file before split. **THUMBNAIL=<value>** Enable or Disable record thumbnail, valid value is: 0 – Disable 1 – Enable **FILENAME=<value>** Define file name of recording file, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 1 – Select time as suffix of file name 2 – Select time and recording time as suffix of file name

Set Storage Alarm Recording Parameters

Command Name	Set Storage Alarm Recording Parameters
Command URL	http://<Camera IP> /form/setStorageAlarmRecord?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for snapshot, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **DURATION=<value>** How long to send images after alarm, valid value is: 1~20 seconds **SPLITDURATION=<value>** Maximum number of seconds per file before split. **THUMBNAIL=<value>** Enable or Disable record thumbnail, valid value is: 0 – Disable 1 – Enable **FILENAME=<value>** Define file name of recording file, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 1 – Select time as suffix of file name 2 – Select time and recording time as suffix of file name
Description	Set Storage Alarm Recording Parameters
Response	**000 Success** **100 Failed**

Get Storage Continuous Recording Parameters

Command Name	Get Storage Continuous Recording Parameters
Command URL	http://<Camera IP>/form/getStorageContinueRecord
Parameters	Null
Description	Get Storage Continuous Recording Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for video, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **SPLITDURATION=<value>** Maximum number of seconds per file before split. **THUMBNAIL=<value>** Enable or Disable record thumbnail, valid value is: 0 – Disable 1 – Enable **FILENAME=<value>** Define file name of recording file, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 1 – Select time as suffix of file name 2 – Select time and recording time as suffix of file name

Set Storage Continuous Recording Parameters

Command Name	Set Storage Continuous Recording Parameters
Command URL	http://<Camera IP> /form/setStorageContinueRecord?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **STREAMID=<value>** Select which stream to use for video, valid value is: 0 – Primary stream 1 – Secondary stream 2 – Mobile stream **SPLITDURATION=<value>** Maximum number of seconds per file before split. **THUMBNAIL=<value>** Enable or Disable record thumbnail, valid value is: 0 – Disable 1 – Enable **FILENAME=<value>** Define file name of recording file, valid value is: 0~64 characters **SUFFIX=<value>** Select suffix of image file name, valid value is: 1 – Select time as suffix of file name 2 – Select time and recording time as suffix of file name
Description	Set Storage Continuous Recording Parameters
Response	**000 Success** **100 Failed**

Get Storage FTP Sending Parameters

Command Name	Get Storage FTP Sending Parameters
Command URL	http://<Camera IP>/form/getStorageFtpSending
Parameters	Null
Description	Get Storage files FTP sending Parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **SERVER=<value>** FTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** FTP Server port number, Valid Value is: 1~65535 **REMOTEPATH=<value>** Remote path of server, valid value is: 0~64 characters **AUTH=<value>** FTP server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters

Set Storage FTP Sending Parameters

Command Name	Set Storage FTP Sending Parameters
Command URL	http://<Camera IP> /form/setStorageFtpSending?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or Disable function, valid value is: 0 – Disable 1 – Enable **SCHED=<value>** Select schedule for Effective period or not, valid value is: 0 – Do not select schedule 1 – Select schedule **SCHEDID=<value>** Select schedule ID, valid value is: 1~4 **SERVER=<value>** FTP Server name or IP address, Valid Value is: 0~64 characters **PORT=<value>** FTP Server port number, Valid Value is: 1~65535 **AUTH=<value>** FTP server needs authentication or not, Valid Value is: 0 – no authentication 1 – needs authentication **USERNAME=<value>** Login user name, Valid Value is: 0~64 characters **PASSWORD=<value>** Login password, Valid Value is: 0~128 characters **REMOTEPATH=<value>** Remote path of server, valid value is: 0~64 characters
Description	Get Storage files FTP sending Parameters
Response	**000 Success** **100 Failed**

Get Identity Parameters

Command Name	Get Identity Parameters
Command URL	http://<Camera IP>/form/getIdentity
Parameters	Null
Description	Get identity parameters
Response	**000 Success** **100 Failed** **NAME=<value>** System name, valid value is: 0~30 characters **CONTACT=<value>** System contact, valid value is: 0~50 characters **LOCATION=<value>** System location, valid value is: 0~50 characters

Set Identity Parameters

Command Name	Set Identity Parameters
Command URL	http://<Camera IP>/form/setIdentity?<Param1>&<Param2>& …
Parameters	**NAME=<value>** System name, valid value is: 0~30 characters **CONTACT=<value>** System contact, valid value is: 0~50 characters **LOCATION=<value>** System location, valid value is: 0~50 characters
Description	Set Identity parameters
Response	**000 Success** **100 Failed**

Add User

Command Name	Add User
Command URL	http://<Camera IP>/form/addUser?<Param1>&<Param2>& …
Parameters	**USERNAME=<value>** User name, valid value is: 0~32 characters **PASSWORD=<value>** Password, valid value is: 0~32 characters
Description	Add user
Response	**000 Success** **100 Failed**

Edit User

Command Name	Edit User
Command URL	http://<Camera IP>/form/editUser?<Param1>&<Param2>& …
Parameters	**USERNAME=<value>** User name needs to be previously defined, valid value is: 0~32 characters **PASSWORD=<value>** Password, valid value is: 0~32 characters
Description	Edit user
Response	**000 Success** **100 Failed**

Delete User

Command Name	**Delete User**
Command URL	http://<Camera IP>/form/deleteUser?<Param1>&<Param2>& …
Parameters	**USERNAME=<value>** User name needs to be previously defined, valid value is: 0~32 characters
Description	Delete user
Response	**000 Success** **100 Failed**

Get User List

Command Name	Get User List
Command URL	http://<Camera IP>/form/getUserList
Parameters	Null
Description	Get user list
Response	**000 Success** **100 Failed** **NUM=<value>** Number of users, valid value is: 0~63 **USERNAME0=<value>** Name of user0, valid value is: 0~32 characters **PASSWORD0=<value>** Password of user0, valid value is: 0~32 characters **USERNAME1=<value>** Name of user0, valid value is: 0~32 characters **PASSWORD1=<value>** Password of user0, valid value is: 0~32 characters … … …

Get Active Users List

Command Name	Get Active Users List
Command URL	http://<Camera IP>/form/getActiveUserList
Parameters	Null
Description	Get active users list
Response	**000 Success** **100 Failed** **NUM=<value>** Number of users, valid value is: 0~16 **USERNAME0=<value>** Name of user0, valid value is: 0~32 characters **IP0=<value>** IP address of user0, valid value is: IP address data **USERNAME1=<value>** Name of user1, valid value is: 0~32 characters **IP1=<value>** IP address of user1, valid value is: IP address data … … …

Get Allow Anonymous Access Parameters

Command Name	**Get Allow Anonymous Access Parameters**
Command URL	http://<Camera IP>/form/getAnonymousAccess
Parameters	Null
Description	Get allow anonymous access parameters
Response	**000 Success** **100 Failed** **ENABLE=<value>** Allow or don't allow anonymous access to camera, valid value is: 0 – Don't allow 1 – Allow

Set Allow Anonymous Access Parameters

Command Name	**Set Allow Anonymous Access Parameters**
Command URL	http://<Camera IP>/form/setAnonymousAccess?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Allow or don't allow anonymous access to camera, valid value is: 0 – Don't allow 1 – Allow
Description	Set allow anonymous access parameters
Response	**000 Success** **100 Failed**

Get Authentication Method

Command Name	Get Authentication Method
Command URL	http://<Camera IP>/form/getAuthMethod
Parameters	Null
Description	Get HTTP/RTSP authentication method
Response	**000 Success** **100 Failed** **AUTHMETHOD=<value>** valid value is: 1 - Basic Authentication 2 - Digest Access Authentication

Set Authentication Method

Command Name	Set Authentication Method
Command URL	http://<Camera IP>/form/setAuthMethod?<Param1>&<Param2>& …
Parameters	**AUTHMETHOD=<value>** valid value is: 1 - Basic Authentication 2 - Digest Access Authentication
Description	Set HTTP/RTSP authentication method
Response	**000 Success** **100 Failed**

Get Date and Time

Command Name	Get Date and Time
Command URL	http://<Camera IP>/form/getDateTime
Parameters	Null
Description	Get date and time
Response	**000 Success** **100 Failed** **TIMEZONE=<value>** Timezone, valid value is: 0 (UTC-12:00) International Date Line West 110 (UTC-11:00) Coordinated Universal Time -11 200 (UTC-10:00) Hawaii 300 (UTC-09:00) Alaska 400 (UTC-08:00) Pacific Time (US and Canada) 410 (UTC-08:00) Baja California 510 (UTC-07:00) Chihuahua, La Paz, Mazatlan 500 (UTC-07:00) Mountain Time (US and Canada) 520 (UTC-07:00) Arizona 630 (UTC-06:00) Guadalajara, Mexico City, Monterrey 600 (UTC-06:00) Saskatchewan 620 (UTC-06:00) Central Time (US and Canada) 610 (UTC-06:00) Central America 710 (UTC-05:00) Bogota, Lima, Quito 700 (UTC-05:00) Eastern Time (US and Canada) 720 (UTC-05:00) Indiana (East) 840 (UTC-04:30) Caracas 800 (UTC-04:00) Atlantic Time (Canada) 810 (UTC-04:00) Cuiaba 830 (UTC-04:00) Georgetown, La Paz, Manaus, San Juan 820 (UTC-04:00) Santiago 850 (UTC-04:00) Asuncion 900 (UTC-03:30) Newfoundland 910 (UTC-03:00) Brasilia 950 (UTC-03:00) Buenos Aires 920 (UTC-03:00) Greenland 940 (UTC-03:00) Cayenne, Fortaleza 930 (UTC-03:00) Montevideo 960 (UTC-03:00) Salvador 1010 (UTC-02:00) Coordinated Universal Time -02

	1000 (UTC-02:00) Mid-Atlantic 1110 (UTC-01:00) Cape Verde Is. 1100 (UTC-01:00) Azores 1200 (UTC) Dublin, Edinburgh, Lisbon, London 1220 (UTC) Casablanca 1210 (UTC) Monrovia, Reykjavik 1230 (UTC) Coordinated Universal Time 1360 (UTC+01:00) Tripoli 1340 (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna 1300 (UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague 1320 (UTC+01:00) Brussels, Copenhagen, Madrid, Paris 1310 (UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb 1350 (UTC+01:00) Windhoek 1330 (UTC+01:00) West Central Africa 1460 (UTC+02:00) Beirut 1480 (UTC+02:00) Damascus 1400 (UTC+02:00) Minsk 1470 (UTC+02:00) Harare, Pretoria 1420 (UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius 1410 (UTC+02:00) Cairo 1430 (UTC+02:00) Athens, Bucharest 1440 (UTC+02:00) Jerusalem 1490 (UTC+02:00) Istanbul 1450 (UTC+02:00) Amman 1510 (UTC+03:00) Baghdad 1530 (UTC+03:00) Kaliningrad 1500 (UTC+03:00) Kuwait, Riyadh 1520 (UTC+03:00) Nairobi 1550 (UTC+03:30) Tehran 1600 (UTC+04:00) Abu Dhabi, Muscat 1620 (UTC+04:00) Yerevan 1610 (UTC+04:00) Baku 1650 (UTC+04:00) Port Louis 1640 (UTC+04:00) Tbilisi 1540 (UTC+04:00) Moscow, St. Petersburg, Volgograd 1630 (UTC+04:30) Kabul 1710 (UTC+05:00) Tashkent 1750 (UTC+05:00) Islamabad, Karachi 1720 (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi 1730 (UTC+05:30) Sri Jayawardenepura 1740 (UTC+05:45) Kathmandu 1800 (UTC+06:00) Astana 1830 (UTC+06:00) Dhaka

	1700 (UTC+06:00) Ekaterinburg 1820 (UTC+06:30) Yangon (Rangoon) 1910 (UTC+07:00) Bangkok, Hanoi, Jakarta 1810 (UTC+07:00) Novosibirsk 2000 (UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi 2020 (UTC+08:00) Kuala Lumpur, Singapore 1900 (UTC+08:00) Krasnoyarsk 2040 (UTC+08:00) Perth 2030 (UTC+08:00) Taipei 2050 (UTC+08:00) Ulaanbaatar 2110 (UTC+09:00) Osaka, Sapporo, Tokyo 2100 (UTC+09:00) Seoul 2010 (UTC+09:00) Irkutsk 2140 (UTC+09:30) Adelaide 2130 (UTC+09:30) Darwin 2210 (UTC+10:00) Brisbane 2240 (UTC+10:00) Guam, Port Moresby 2220 (UTC+10:00) Hobart 2200 (UTC+10:00) Canberra, Melbourne, Sydney 2120 (UTC+10:00) Yakutsk 2230 (UTC+11:00) Vladivostok 2300 (UTC+11:00) Solomon Is., New Caledonia 2410 (UTC+12:00) Auckland, Wellington 2400 (UTC+12:00) Fiji 2310 (UTC+12:00) Magadan 2430 (UTC+12:00) Coordinated Universal Time +12 2500 (UTC+13:00) Nuku'alofa 2510 (UTC+13:00) Samoa **DAYLIGHT=<value>** Enable or disable daylight saving time, valid value is: 0 – Disable 1 – Enable **SECOND=<value>** Greenwich time, valid value is: 0 ~ 2147450000 (Second)

Set Date and Time

Command Name	Set Date and Time
Command URL	http://<Camera IP>/form/setDateTime?<Param1>&<Param2>& …
Parameters	**TIMEZONE=<value>** Timezone, valid value is: 0 (UTC-12:00) International Date Line West 110 (UTC-11:00) Coordinated Universal Time -11 200 (UTC-10:00) Hawaii 300 (UTC-09:00) Alaska 400 (UTC-08:00) Pacific Time (US and Canada) 410 (UTC-08:00) Baja California 510 (UTC-07:00) Chihuahua, La Paz, Mazatlan 500 (UTC-07:00) Mountain Time (US and Canada) 520 (UTC-07:00) Arizona 630 (UTC-06:00) Guadalajara, Mexico City, Monterrey 600 (UTC-06:00) Saskatchewan 620 (UTC-06:00) Central Time (US and Canada) 610 (UTC-06:00) Central America 710 (UTC-05:00) Bogota, Lima, Quito 700 (UTC-05:00) Eastern Time (US and Canada) 720 (UTC-05:00) Indiana (East) 840 (UTC-04:30) Caracas 800 (UTC-04:00) Atlantic Time (Canada) 810 (UTC-04:00) Cuiaba 830 (UTC-04:00) Georgetown, La Paz, Manaus, San Juan 820 (UTC-04:00) Santiago 850 (UTC-04:00) Asuncion 900 (UTC-03:30) Newfoundland 910 (UTC-03:00) Brasilia 950 (UTC-03:00) Buenos Aires 920 (UTC-03:00) Greenland 940 (UTC-03:00) Cayenne, Fortaleza 930 (UTC-03:00) Montevideo 960 (UTC-03:00) Salvador 1010 (UTC-02:00) Coordinated Universal Time -02 1000 (UTC-02:00) Mid-Atlantic 1110 (UTC-01:00) Cape Verde Is. 1100 (UTC-01:00) Azores 1200 (UTC) Dublin, Edinburgh, Lisbon, London 1220 (UTC) Casablanca

	1210 (UTC) Monrovia, Reykjavik 1230 (UTC) Coordinated Universal Time 1360 (UTC+01:00) Tripoli 1340 (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna 1300 (UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague 1320 (UTC+01:00) Brussels, Copenhagen, Madrid, Paris 1310 (UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb 1350 (UTC+01:00) Windhoek 1330 (UTC+01:00) West Central Africa 1460 (UTC+02:00) Beirut 1480 (UTC+02:00) Damascus 1400 (UTC+02:00) Minsk 1470 (UTC+02:00) Harare, Pretoria 1420 (UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius 1410 (UTC+02:00) Cairo 1430 (UTC+02:00) Athens, Bucharest 1440 (UTC+02:00) Jerusalem 1490 (UTC+02:00) Istanbul 1450 (UTC+02:00) Amman 1510 (UTC+03:00) Baghdad 1530 (UTC+03:00) Kaliningrad 1500 (UTC+03:00) Kuwait, Riyadh 1520 (UTC+03:00) Nairobi 1550 (UTC+03:30) Tehran 1600 (UTC+04:00) Abu Dhabi, Muscat 1620 (UTC+04:00) Yerevan 1610 (UTC+04:00) Baku 1650 (UTC+04:00) Port Louis 1640 (UTC+04:00) Tbilisi 1540 (UTC+04:00) Moscow, St. Petersburg, Volgograd 1630 (UTC+04:30) Kabul 1710 (UTC+05:00) Tashkent 1750 (UTC+05:00) Islamabad, Karachi 1720 (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi 1730 (UTC+05:30) Sri Jayawardenepura 1740 (UTC+05:45) Kathmandu 1800 (UTC+06:00) Astana 1830 (UTC+06:00) Dhaka 1700 (UTC+06:00) Ekaterinburg 1820 (UTC+06:30) Yangon (Rangoon) 1910 (UTC+07:00) Bangkok, Hanoi, Jakarta 1810 (UTC+07:00) Novosibirsk 2000 (UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi

	2020 (UTC+08:00) Kuala Lumpur, Singapore 1900 (UTC+08:00) Krasnoyarsk 2040 (UTC+08:00) Perth 2030 (UTC+08:00) Taipei 2050 (UTC+08:00) Ulaanbaatar 2110 (UTC+09:00) Osaka, Sapporo, Tokyo 2100 (UTC+09:00) Seoul 2010 (UTC+09:00) Irkutsk 2140 (UTC+09:30) Adelaide 2130 (UTC+09:30) Darwin 2210 (UTC+10:00) Brisbane 2240 (UTC+10:00) Guam, Port Moresby 2220 (UTC+10:00) Hobart 2200 (UTC+10:00) Canberra, Melbourne, Sydney 2120 (UTC+10:00) Yakutsk 2230 (UTC+11:00) Vladivostok 2300 (UTC+11:00) Solomon Is., New Caledonia 2410 (UTC+12:00) Auckland, Wellington 2400 (UTC+12:00) Fiji 2310 (UTC+12:00) Magadan 2430 (UTC+12:00) Coordinated Universal Time +12 2500 (UTC+13:00) Nuku'alofa 2510 (UTC+13:00) Samoa **DAYLIGHT=<value>** Enable or disable daylight saving time, valid value is: 0 – Disable 1 – Enable **SECOND=<value>** Greenwich time, valid value is: 0 ~ 2147450000 (Second)
Description	Set date and time
Response	**000 Success** **100 Failed**

Get Date Format

Command Name	Get Date Format
Command URL	http://<Camera IP>/form/getDateFormat
Parameters	Null
Description	Get date format
Response	**000 Success** **100 Failed** **FORMAT=<value>** Select date and time format, valid value is: 0 – yy/mm/dd hh:mm:ss 1 – mm/dd/yy hh:mm:ss 2 – dd/mm/yy hh:mm:ss

Set Date Format

Command Name	Set Date Format
Command URL	http://<Camera IP>/form/setDateFormat?<Param1>&<Param2>& …
Parameters	**FORMAT=<value>** Select date and time format, valid value is: 0 – yy/mm/dd hh:mm:ss 1 – mm/dd/yy hh:mm:ss 2 – dd/mm/yy hh:mm:ss
Description	Set date format
Response	**000 Success** **100 Failed**

Get NTP Parameters

Command Name	Get NTP Parameters
Command URL	http://<Camera IP>/form/getNtp
Parameters	Null
Description	Get NTP parameters
Response	**ENABLE=<value>** Enable or disable NTP function, valid value is: 0 – Disable NTP 1 – Enable NTP **SERVER=<value>** NTP server name or IP address, valid value is: 0-63 characters

Set NTP Parameters

Command Name	Set NTP Parameters
Command URL	http://<Camera IP>/form/setNtp?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or disable NTP function, valid value is: 0 – Disable NTP 1 – Enable NTP **SERVER=<value>** NTP server name or IP address, valid value is: 0-63 characters
Description	Set NTP parameters
Response	**000 Success** **100 Failed**

Get Auto Reboot Parameters

Command Name	Get Auto Reboot Parameters
Command URL	http://<Camera IP>/form/getAutoReboot
Parameters	Null
Description	Get auto reboot parameters
Response	**ENABLE=<value>** Enable or disable Auto Reboot function, valid value is: 0 – Disable Auto Reboot 1 – Enable Auto Reboot **DAY=<value>** Reboot day, valid value is: 0 - Sunday 1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday 7 - Every day **TIME=<value>** Reboot time, valid value is 0-23.

Set Auto Reboot Parameters

Command Name	Set Auto Reboot Parameters
Command URL	http://<Camera IP>/form/setAutoReboot?<Param1>&<Param2>& …
Parameters	**ENABLE=<value>** Enable or disable Auto Reboot function, valid value is: 0 – Disable Auto Reboot 1 – Enable Auto Reboot **DAY=<value>** Reboot day, valid value is: 0 - Sunday 1 - Monday 2 - Tuesday 3 - Wednesday 4 - Thursday 5 - Friday 6 - Saturday 7 - Every day **TIME=<value>** Reboot time, valid value is 0-23.
Description	Set auto reboot parameters
Response	**000 Success** **100 Failed**

System Reboot

Command Name	System Reboot
Command URL	http://<Camera IP>/form/sysReboot
Parameters	Null
Description	System reboot
Response	**000 Success** **100 Failed**

Get Model

Command Name	Get Model
Command URL	http://<Camera IP>/form/getModel
Parameters	Null
Description	Get model
Response	**000 Success** **100 Failed** **VENDOR=Sharx** **MODEL=<value>** Camera model

Get Firmware Version

Command Name	Get Firmware Version
Command URL	http://<Camera IP>/form/getFirmwareVersion
Parameters	Null
Description	Get firmware version
Response	**000 Success** **100 Failed** **MAJOR=<value>** Firmware major, valid value is: 0~99 **MINOR=<value>** Firmware minor, valid value is: 0~99 **BUILD=<value>** Firmware build number, valid value is: 0~8 characters

Get Hardware Address

Command Name	**Get Hardware Address**
Command URL	http://<Camera IP>/form/getHardwareAddress
Parameters	Null
Description	Get hardware address
Response	**000 Success** **100 Failed** **HWADDR=<value>** Camera hardware address

Get System Information

Command Name	Get System Information
Command URL	http://<Camera IP>/form/getSystemInformation
Parameters	Null
Description	Get system information
Response	**000 Success** **100 Failed** **VENDOR=Sharx** **MODEL=<value>** Camera model **HWADDR=<value>** Network hardware address **LOADERVERSION=<value>** The loader version **FIRMWAREVERSION=<value>** The firmware version **ACTIVEXVERSION=<value>** The ActiveX control version **UPTIME=<value>** System up time

Appendix URL Command Testing

Video
http://<IP address>/form/getVideo
http://<IP address>/form/setVideo? LIGHTFREQ=50&HFLIP=0&VFLIP=0

Audio
http://<IP address>/form/getAudio
http://<IP address>/form/setAudio?ENABLE=0&VOLUME=1

Speaker
http://<IP address>/form/getSpeaker
http://<IP address>/form/setSpeaker?ENABLE=0&VOLUME=8

Privacy mode
http://<IP address>/form/getPrivacy
http://<IP address>/form/setPrivacy?ENABLE=0

Stream
http://<IP address>/form/getStream?TYPE=1
http://<IPaddress>/form/setStream?TYPE=1&ENABLE=1&SIZE=FSIZE&FRAMERATE=30&
H264BITRATE=2048&MPEG4BITRATE=2048&MJPEGQUALITY=50&JPEGQUALITY=90&
AUDIOCODEC=AACLC& AUDIOBITRATE=24000&AUTH=1