ManitouNEO Video Control Center (VCC) Parameters Guide for Release 2.0.x

August 2018

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About This Guide

This guide is a functional overview (living document) and provides information about the optional, and required, parameters, as well as the settings for each video type supported by Manitou using the Video Control Center, also known as the VCC.

Manitou Video Configuration

Important Note

Due to the wide variety of devices available through different manufactures, Bold Technologies cannot test the integration against all the products offered. Customers should consult with their device manufacturer, sales representative, or customer support to verify device support with the API used.

Video Requirements

- Video Control Center (VCC) is for use with ManitouNeo. VCC will not work with the legacy Manitou Operator Workstation. Each workstation that uses VCC requires the ManitouNeo client be installed.

- Manufacturer APIs – Some Video or Audio Types require that manufacturer APIs be downloaded and installed on each client machine.

Video Licensing

Bold customers wishing to utilize Manitou's video functionality must be licensed to do so. Licensing limitations for both Video Accounts and individual Video Cameras are in place.

Audio Licensing

Audio only services are currently not supported in VCC.

Video Service

Manitou accounts requiring video functionality must have the Video Monitoring Service.

Audio Service

Audio only services are currently not supported in VCC.

Video Notes and Limitations

- Many video vendors require direct access to the video card/driver to create a video surface or overlay that the video is displayed on in Windows. Connecting to video using a client running on a virtual machine or connecting to a client on a remote machine via Remote Desktop, PC Anywhere, or other similar remote access software, can result in unpredictable behavior.

- While VCC can display the older legacy (BJS) video types, these legacy video types are somewhat limited in the options available. If a VCC version of the video type is available, use this for the best experience.

- For video types where there is a legacy video type, but no VCC video type, refer to the Manitou Video and Audio Configuration Parameters Guide for more information.

Video Type/Audio Type Protocol Selection

Video Type (sometimes referred to as Video Protocol) selection is accomplished either at the Transmitter Type level or at the Device level.

- Transmitter Type - Video Type Selection
  - Create or Modify a Transmitter Type, selecting the desired Video Type.
  - Create a Transmitter of that Transmitter Type, ensuring that the customer has the appropriate Video Service and that the Transmitter is selected as Video Capable as needed.
  - Create a Device of type Camera on that Transmitter which can be optionally placed on Plans, etc.
- Device - Video Type Selection (Only available in 1.4.9-1 and up)
  - Create a Device of type Camera that is not associated with a Transmitter.
  - Select the desired Video Type on the Device.
- Some Video Types have both a VCC and legacy versions. Make sure when choosing a video type to choose the VCC variety.

Attention: Video Types are of two access varieties, those that are accessed via a transmitter (A/V type configured at the TX Type level) and those that are accessed directly via a device (A/V type configured at the Device level for devices not associated with a transmitter). Previously, both types were listed together in a Video type dropdown, but now they are filtered down appropriately. i.e.: On the Transmitter Type form, only video types that must be accessed via a transmitter are listed in the video dropdown. On the Device form, for devices that are not associated with a transmitter, only video types that must be accessed directly are listed in the video dropdowns.

Supported Video Feature Matrix

The following attachment contains a feature summary for each video device supported by Manitou.

Note: Due to the wide variety of devices available through different manufactures, Bold Technologies cannot test the integration against all the products offered. Customers should consult with their device manufacturer, sales representative, or customer support to verify device support with the API used.

ManitouNeo Video Control Center Video Support Quick Reference:

ManitouNeo Video
Control Center Vide

Manitou Video Control Center Video Device Configuration and Parameters

3xLogic Vigil

Video Type: 3XLOGIC

> **Connection Type:** IP
>
> **Access Type:** Direct connect to device (URL)
>
> **Notable Features, Limitations and Recommended Usage:**
>
>> **Typical Configuration:** Unit at site accessible via IP by the Central Station.
>>
>> **Live Connection:** Live connections can be made from a Device the Device itself or on a Floor Plan.
>>
>> **Software:** The 3xLogic VIGIL SDK is included in the install of VCC.
>>
>> **SDK Version:** VigilSDK 9.50.0.406
>>
>> **Available Options:**
>>
>> - Live Video
>> - Metadata
>>   - Device name
>> - PTZ (if supported by camera)
>>   - Direct control
>>   - Presets
>>   - Tours
>>   - Relay Output
>> - Live Audio (if supported by camera)
>>   - Listen
>>   - Audio Talk-down (if supported by camera)
>> - Recorded Playback
>> - Image Snapshot (to file, clipboard, or history)
>> - Video Clip Export (to file or history)
>
> **Device Address Syntax:**
>
>> IP Address: ###.###.###.###
>>
>>> or
>>
>> Resolvable DNS Name: server.somewhere.com
>
> **Device Option Syntax:**
>
>> <parameter>=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 0	Camera number for this device. *Required*
user=<string>	Any string	The username that has permission to view live video on this device. *Required*
password=<string>	Any string	NVR password. *Required*
port=<int>	Integer	Network port to connect to the 3xLogic device *Required*
vigilcon=<int or bool>	0, 1, true, false	Whether to use the 3xLogic Vigil Connect service to connect to the device. *Optional (default false)*

American Dynamics (Intellex, VideoEdge, HDVR, TVR, Holis)

Video Type: AMDYN

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations and Recommended Usage:

Typical Configuration: Unit at site accessible via IP by the Central Station.

Live Connection: Live connections can be made from a Device the Device itself or on a Floor Plan.

Software: The American Dynamics SDK needs to be installed separately from the VCC install.

SDK Version: AMSDK 14.1

Available Options:

- Live Video
- Recorded Playback
- Image Snapshot (to file, clipboard, or history)
- Video Clip Export (to file or history)

Device Address Syntax:

IP Address: *###.###.###.###*

or

Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 1	Camera number for this device. *Required*
user=<string>	Any string	*Required*
password=<string>	Any string	*Required*
adminport=<int>	Integer	Admin port for this device. Used for: Intellex (default 5000) VideoEdge (default 80) *Optional*
mediaport=<int>	Integer	Media port for this device: Intellex (default 5001) VideoEdge (default 554) HDVR (default 22609) TVR (default 8000)

		Optional
eventport=<int>	Integer	Event port for Intellex devices only. *Optional (default 5003)*
wan=<bool>	True or false	Wan mode for VideoEdge only *Optional (default false)*
Type=<string>	INTELLEX or VIDEOEDGE or HDVR or TVR or HOLIS	Which type of American Dynamics device to be connected to *Required*

Avigilon 5

Video Type: AVIG5

Connection Type: IP

Access Type: Direct connect to device (IP)

Notable Features, Limitations, and Recommended Usage: *(*May vary*)*

Typical Configuration: Avigilion server accessible via IP by the Central Station.

Software: The Avigilon API is included in the install of VCC.

SDK Version: Avigilon Control Center SDK Dot Net 5.6

Available Options:

- Live Video
- Metadata
    - Analytics
    - License Plate
    - Motion
    - Image Time
    - Camera Location
    - Device Name
- PTZ (if supported by camera)
    - Direct control
    - Presets
    - Tours
    - Relay output

- Live Audio (if supported by camera)
    - Listen
    - Audio Talk-down (if supported by camera)
- Recorded Playback
- Image Snapshot (to file, clipboard, or history)

Device Address Syntax:

IP Address: *###.###.###.###*

or

Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<string>	Any string	Name of the camera to connect. *Required*.
port=<int>	Integer	Port of the Avigilon NVR. *Required*.
user=<string>	Any string	The username that has permission to view live video on the NVR. *Required*.
password=<string>	Any string	NVR password. *Required*

AXIS VAPIX

Video Type: AXISVAP

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations, and Recommended Usage: *(*May vary*)*

> **Typical Configuration:** AXIS server (AVHS) accessible via IP by the Central Station.
>
> **Video:** Requires AXIS Cameras, AVHS
>
> **Storage:** Video storage capabilities.
>
> **Software:** The Axis VAPIX API is included in the install of VCC. Installer must be used to install Axis AAC_Decoder, MJPEG Decoder, H264 Decoder, AXIS Media Control, MPEG4 Decoder
>
> **API Version:** Axis VAPIX API 5
>
> **Available Options:**
>
> - Live Video
> - PTZ (if supported by camera)
>   - Direct control
> - Live Audio (if supported by camera)
>   - Listen
>   - Audio Talk-down (if supported by camera)
> - Image Snapshot (to file, clipboard, or history)

Device Address Syntax:

> IP Address: ###.###.###.###
>
> > or
>
> Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

> <parameter>=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
user=<string>	Any string	The username that has permission to view live video on the camera.

		Required
password=<string>	Any string	The password for the user. *Required*
port=<int>	Integer	Network port of the Axis device. *Required*.
networktimeout=<int>	1000-… Examples: 1000(1 second) 5000(5 seconds)	Time in milliseconds. *Optional (default 5000 milliseconds)*
mediatype=<string>	mpeg4 mjpeg h264 mpeg2-unicast mpeg2-multicast	Type of camera mode *Optional (default mpeg4)*

exacqVision

Video Type: EXACQVIS

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations, and Recommended Usage:

> **Typical Configuration:** exacqVision server accessible via IP by the Central Station.

> **Software:** The exacqVision API is included in the install of VCC.

> **API Version:** evAPI 1.36

> **Available Options:**

> - Live Video
> - PTZ (if supported by camera)
>   - Direct control

- o Presets
- Live Audio (if supported by camera)
  - o Listen
  - o Audio Talk-down (if supported by camera)
- Recorded Playback
- Image Snapshot (to file, clipboard, or history)
- Video Clip Export (to file or history)

Device Address Syntax:

IP Address: *###.###.###.###*

or

Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 1	Camera number for this device. *Required*
user=<string>	Any string	The username that has permission to view live video on the camera. *Required*
password=<string>	Any string	The password for the user. *Required*
port=<int>	Integer	TCP port number used to connect to the DVR. *Optional (default 22609)*
enableaudio=<bool>	True or false	Flag on whether to enable audio on this device if audio is available.

		Optional (default false)

HikVision

Video Type: HIK5

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations, and Recommended Usage:

Typical Configuration: HikVision device accessible via IP by the Central Station.

Software: The HikVision API is included in the install of VCC.

API Version: HCNetSDK 5.1.3.5

Available Options:

- Live Video
- PTZ (if supported by camera)
  - Direct control
  - Presets
  - Relay output
- Live Audio (if supported by camera)
  - Listen
  - Audio Talk-down (if supported by camera)
- Recorded Playback
- Image Snapshot (to file, clipboard, or history)
- Video Clip Export (to file or history)

Device Address Syntax:

IP Address: ###.###.###.###

or

Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 1 (33 for NVR or Hybrid	Camera number for this device. *Required*

	devices if adjustcamnum is false)	
user=<string>	Any string	The username that has permission to view live video on the camera. *Required*
password=<string>	Any string	The password for the user. *Required*
port=<int>	Integer	TCP port number used to connect to the DVR. *Required*
adjustcamnum=<bool>	True or false	Flag on whether to adjust for camera numbers for NVR and Hybrid devices. *Optional (default false)*

HTVSI DVR

Video Type: HTVSIDVR

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations, and Recommended Usage:

Typical Configuration: HTVSI DVR server accessible via IP by the Central Station.

Software: The HTVSI DVR API is included in the install of VCC.

Available Options:

- Live Video
- Image Snapshot (to file, clipboard, or history)

Device Address Syntax:

IP Address: *###.###.###.###*

or

Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 0	Camera number for this device. *Required*
user=<string>	Any string	The username that has permission to view live video on the camera. *Required*
password=<string>	Any string	The password for the user. *Required*
commandport=<int>	Integer	TCP command port number used to connect to the device. *Optional (default 8200)*
streamport=<int>	Integer	TCP stream port number used to connect to the device. *Optional (default 8201)*

HTVSI NVR

Video Type: HTVSINVR

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations, and Recommended Usage:

Typical Configuration: HTVSI DVR server accessible via IP by the Central Station.

Software: The HTVSI DVR API is included in the install of VCC.

API Version: I8H-SDK 17.6.14.11

Available Options:

- Live Video
- Image Snapshot (to file, clipboard, or history)

Device Address Syntax:

IP Address: ###.###.###.###

or

Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 0	Camera number for this device. *Required*
user=<string>	Any string	The username that has permission to view live video on the camera. *Required*
password=<string>	Any string	The password for the user. *Required*

port=<int>	Integer	TCP port number used to connect to the DVR. *Optional (default 80)*

OpenEye Oscar

Video Type: OPENEYE

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations, and Recommended Usage:

> **Typical Configuration:** OpenEye server accessible via IP by the Central Station.

> **Software:** The OpenEye Oscar API is included in the install of VCC.

> **API Version:** Oscar API 1.3.1.37

> **Available Options:**

> - Live Video
> - PTZ (if supported by camera)
>   - Direct control
> - Live Audio (if supported by camera)
>   - Listen
>   - Audio Talk-down (if supported by camera)
> - Recorded Playback
> - Image Snapshot (to file, clipboard, or history)
> - Video Clip Export (to file or history)

Device Address Syntax:

> IP Address: ###.###.###.###

> > or

> Resolvable DNS Name: server.somewhere.com

Device Option Syntax:

> <parameter>=<value>&<parameter>=<value> …

Available User Options:

<parameter>=<value>	Acceptable Values	Description
camera=<int>	Single integer starting from 1	Camera number for this device.

		Required
user=<string>	Any string	The username that has permission to view live video on the camera. *Required*
password=<string>	Any string	The password for the user. *Required*
port=<int>	Integer	TCP port number used to connect to the device. *Required*
stun=<string>	Any string	Stun server if using OpenEye cloud services. *Required if using OpenEye cloud services*
company=<string>	Any string	Company ID if using OpenEye cloud services *Required if using OpenEye cloud services*
device=<string>	Any string	Device ID if using OpenEye cloud services *Required if using OpenEye cloud services*

RTSP

Video Type: RTSP_VCC

Connection Type: IP

Access Type: Direct connect to device (URL)

Notable Features, Limitations and Recommended Usage: *(*May vary*)*

> **Usage:** This depends entirely on the URL being connected to and the video manufacturer involved.

> **Software:** This will be dependent on the video manufacturer.

> **Limitations:** Some RTSP streams will not play properly using this video type.

Device Address Syntax:

> rtsp://<complete URL to RTSP video page content>

Device Option Syntax:

> No parameters are used unless specifically referred to by video manufacturer.

Available User Options:

> N/A

Revision History

Date	Initials	Description
August 3, 2018	BB	Created initial document for 99.0.0.
March 28, 2019	CM	Updated to latest Bold Group format.