Media Production Suite
Auto Framing Plugin
Web API Specification

Version 1.11

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1 Introduction

1.1 Purpose of this document

This document specifies the communication interface specification for the Web API that controls the Auto Framing plug-in of the Media Production Suite software.

1.2 Notes on using Web API

When using the Web API described in this document, make sure that the camera registration of the Media Production Suite software is done in a single group, not in multiple groups. If the camera is registered in multiple groups, the camera specification via the Web API may not work correctly.

There is a certain delay in the information obtained by the information retrieval command of the Web API.

2 Interface

2.1 Specification

The communication IF specified as a Web API in this manual conforms to the communication specification of HTTP 1.1, and the control over this software is realized as an HTTP request to a URL on the Web server. All HTTP requests are GET methods.

2.2 Format

The format (URL) of the control command provided as Web API is as follows.

[Send]

http://[IP Address]:[Port No]/cgi-bin/auto_framing?cmd=[Command]&[Parameters]=[Value]&...

table 2.2-1 Transmission Format Details

No	name	explanation
1	IP Address	IP address of the web application
2	Port No	The listening port number of the Web application. Currently fixed at 1338.
3	command	The control command string. “2.3 List of Supported Commands” specifies a list of commands that can be used in .
4	parameter	Control command parameters. Use "&" to allow multiple specifications.
5	value	The value to set for the control command parameter.

[Receive]

The format of the response data returned to the command issuer is JSON format (content_type "application/json") or image format (content_type "image/jpeg").

2.3 List of Supported Commands

The following is a list of commands supported by the Auto Framing plug-in of the Media Production Suite software.

For more information about each command, please refer to “3 Command Details”.

table 2.3-1 List of Supported Commands

No	name	explanation
1	FramingEnable	Commands equivalent to the Enable button in the autoframing GUI
2	FramingStartStop	Commands equivalent to the Start/Stop buttons in the autoframing GUI
3	FramingState	Command to get autoframing status of the camera.
4	TrackingControl	Commands that are equivalent to slider operations in the TrackingControl tab of the autoframing GUI
5	AutoFaceSearch	Commands equivalent to the Auto Face Search button in the autoframing GUI
6	Preset	Commands equivalent to the Recall, Set, and Delete buttons of the Advanced Preset in the autoframing GUI
7	TargetFrame	Commands equivalent to the Recall, Set, and Delete buttons in the Target Frame in the autoframing GUI
8	TargetPosition	Target designation via video click in the auto-framing GUI and Command equivalent to the +, - button on Target
9	TargetFace	Face Recognition in the Autoframing GUI – Commands equivalent to the Select, Clear buttons
10	AutoZoom	Zoom in the autoframing GUI – the command equivalent of the Auto button
11	AutoStartArea	Setting – The command equivalent of the Auto Start Area button in the auto-framing GUI . You can also specify the area.
12	MaskArea	The command equivalent of the Setting – Mask Area button in the autoframing GUI . You can also specify the area.
13	FrameMapping	Commands equivalent to the Mapping button in the autoframing GUI
14	CurrentFrame	Commands that correspond to what you want to do in the Frame Adjust tab of the autoframing GUI
15	GetImage	Command to get an image of the autoframing GUI Advanced Preset thumbnails, Target Frame thumbnail, Thumbnail of Current Framing displayed in the TrackingControl tab

3 Command Details

3.1 FramingEnable

It is used to control the Auto Framing function of the target camera Enable ON/OFF.

The list of transmission parameters is as follows.

table 3.1-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
enable	Mandatory	string	on: Auto Framing function ON off: Auto Framing function OFF

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Auto Framing function ON

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=FramingEnable&id=1&enable=on

Auto Framing function OFF

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=FramingEnable&id=1&enable=off

The command response is in JSON format.

table 3.1-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

Example command response

```
{
  "Command": "FramingEnable",
  "Parameter": "&id=1&enable=on",
  "Response": "ack"
}
```


3.2 FramingStartStop

It is used to control the start/stop of the tracking framing process of the target camera.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.2-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
process	Mandatory	string	Specify either start or stop. start: Start framing stop: Stop framing

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Start tracking

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=FramingStartStop&id=1&process=start

Stop Tracking

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=FramingStartStop&id=1&process=stop

The command response is in JSON format.

table 3.2-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.3 FramingState

This is used to obtain the auto framing status of the camera.

The list of transmission parameters is as follows.

table 3.3-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). If id = 0, send the FramingState of all cameras that exist in id 1~100. Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Camera status acquisition
http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=FramingState&id=1

The command response is in JSON format.

table 3.3-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details
FramingState		array	An array of FramingState objects. In the case of nack it does not exist The frequency of information update is about 5 Hz.

table 3.3-3 FramingState Object Structure

key	format	explanation
AutoFaceSearch	bool	true: Feature on false: Feature off
AutoZoom	bool	true: Feature on false: Feature off
FramingEnable	Integer value	A value indicating the Enable status of the AutoFraming function 0 : Function off

		1 : Built-in mode 2 : PC_GPU mode 6 : PC_GPU (Reference Camera) Mode
FramingStartStop	Integer value	A value that indicates the status of the START/STOP button in the GUI 0: START/STOP button is in the STOP state 1: The START/STOP button is in the START state.
FramingStatus	Integer value	A value that indicates the framing state 0 : Stopped 1 : Tracking 2 : Lost 3 : Searching
TargetFace		object
TrackingControl		object
auto_start_area		object
camera_info		object
mask_area		object
person	Array of person_data objects	
ptz_status		object
selected_id	Integer value	The ID of the selected person. In the case of a model that supports face autofocus, indicate the ID of the focus target.
target_id	Array of integer values	An array of IDs that are specified as targets
target_frame		object

table 3.3-4 TargetFace Structure of the object

key	format	explanation
list_id	Array of integer values	The number of the person selected in Face Recognition in the GUI. It is the same number that appears on the Select Face screen.
name	Array of strings	An array of names corresponding to list_id

table 3.3-5 TrackingControl Structure of the object

key	format	explanation
AutoZoomSpeed	Integer value	AutoZoom Speed displayed in the GUI Tracking Control
PanTiltSpeed	Integer value	Pan/Tilt Speed displayed in the Tracking Control of the GUI
Sensitivity	Integer value	Sensitivity displayed in the GUI Tracking Control

table 3.3-6 auto_start_area Structure of the object

key	format	explanation

AutoStartAreaEnable	Integer value	0: Auto Start Area disabled 1: Auto Start Area enabled
polygon	Array of [x, y] values	Consists of three or more [x, y] coordinates. 1920x1080 coordinate system of the upper left origin

table 3.3-7 camera_info Structure of the object

key	format	explanation
IP_address	string	IP address of the camera
PanTiltLimitUDLR	Array of integer values	The following states are shown in the order of top, bottom, left, and right. 0 : Pan Tilt Limit disabled 1 : Pan Tilt Limit enabled
guid	string	Camera GUID (for future use)
id	Integer value	Camera ID number
name	string	Name of the camera set in the GUI
powermode	Integer value	0 : Standby 1 : PowerOn 3 : PowerOff

table 3.3-8 mask_area Structure of the object

key	format	explanation
polygon_array	Array of polygons	An array of polygons defined by auto_start_area objects

table 3.3-9 person_data Structure of Objects

key	format	explanation
body	object	Rectangular coordinates indicating the human body. 1920x1080 coordinate system of the upper left origin { "height" The height of the rectangle "width": , width of the rectangle "x": , the X coordinate of the upper left "y": Upper left Y coordinate },
head	object	Rectangular coordinates indicating the head. 1920x1080 coordinate system of the upper left origin { "height" The height of the rectangle "width": , width of the rectangle "x": , the X coordinate of the upper left "y": Upper left Y coordinate },
id	Integer value	ID of the person
name	string	Name if face recognition is present

table 3.3-10 ptz_status Structure of the object

key	format	explanation

ptz_move	bool	true : Pan/Tilt/Zoom of the camera is active false: The above is stopped

table 3.3-11 target_frame Structure of the object

key	format	explanation
pos_x	Real Values	The X coordinate of the TargetFrame setting value 1920x1080 coordinate system of the upper left origin
pos_y	Real Values	Y coordinate of the TargetFrame setting value 1920x1080 coordinate system of the upper left origin
zoom	Integer value	Auto-zoom target value (10 ~ 70)

Example of a FramingState object

```
"FramingState": [
 {
  "AutoFaceSearch": false,
  "AutoZoom": true,
  "FramingEnable": 2,
  "FramingStartStop": 0,
  "FramingStatus": 4,
  "TargetFace": {
    "list_id": [1, 5],
    "name": [
      “BOB”,
      "EMI"
    ]
  },
  "TrackingControl": {
    "AutoZoomSpeed": 0,
    "PanTiltSpeed": 0,
    "Sensitivity": 0
  },
  "auto_start_area": {
    "AutoStartAreaEnable": 0,
    "polygon": [
      [0, 0],
      [0, 0],
      [0, 0],
      [0, 0]
    ]
  },
  "camera": {
    "IP_address": "192.168.0.80",
    "PanTiltLimitUDLR": [0, 0, 0, 0],
    "guid": "a554ceb5-508c-4623-b46b-da3dbd8499bc",
    "id": 1,
    "name": "CAM1",
    "powermode": 1
  },
  "mask_area": {
    "polygon": [
      [
        [0, 0],
```



```
          [0, 0],
          [0, 0],
          [0, 0]
        ],
        [
          [0, 0],
          [0, 0],
          [0, 0],
          [0, 0]
        ],
        [
          [0, 0],
          [0, 0],
          [0, 0],
          [0, 0]
        ]
      ]
    },
    "person": [
      {
        "body": {
          "height": 1050,
          "width": 681,
          "x": 237,
          "y": 0
        },
        "head": {
          "height": 235,
          "width": 235,
          "x": 462,
          "y": 117
        },
        "id": 6241,
        "name": "BOB"
      }
    ],
    "ptz_status": {
      "ptz_move": false
    },
    "selected_id": 6239,
    "target_id": [6239],
    "target_frame": {
      "pos_x": 0,
      "pos_y": 0,
      "zoom": 10
    }
  }
]
```


3.4 TrackingControl

It is used to set the framing speed and sensitivity of the target camera.

It can be used when the AutoFraming function is enabled.

The list of transmission parameters is as follows.

table 3.4-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
pt_speed	optional	Integer value	This corresponds to the Pan/tilt Speed slider in the GUI. Possible values: -2, -1, 0, 1, 2
z_speed	optional	Integer value	This is equivalent to the AutoZoom Speed slider in the GUI. Possible values: -2, -1, 0, 1, 2
sensitivity	optional	Integer value	This corresponds to the Sensitivity slider in the GUI. Possible values: -2, -1, 0, 1, 2

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

pt_speed set to 2 and sensitivity to 1

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=TrackingControl&id=1&pt_speed=2&sensitivity=1

The command response is in JSON format.

table 3.4-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.5 AutoFaceSearch

Used to change the enable/disable settings of the Auto Face Search function.

It can be used when the AutoFraming function is enabled.

Since this feature requires an Advanced Auto Framing license, it can be used when the GUI Detail Setting – Framing Processor is PC_GPU.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.5-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	string	Specify whether to enable or disable the Auto Face Search function. Specify either 0 (disabled) or 1 (enabled).

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Auto Face Search ON

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=AutoFaceSearch&id=1&mode=1

Auto Face Search OFF

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=AutoFaceSearch&id=1&mode=0

The command response is in JSON format.

table 3.5-2JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.6 Preset

Used to register/delete/call Advanced Preset.

Since it works as an Advanced Preset that processes the camera Preset and the Target Frame at the same time, the Auto Framing plug-in screen must be open in a web browser. NOTE : This limitation will be removed in a future version.

The list of transmission parameters is as follows.

table 3.6-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	string	Specify one of set , clear , or recall . set:register clear: Delete recall: Call
preset_num	Mandatory	Integer value	Specify the Preset number to be processed by mode as an integer value of 1~20.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Register the current position in Preset1
http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=Preset&id=1&mode=set&preset_num=1

Call Preset 20
http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=Preset&id=1&mode=recall&preset_num=20

The command response is in JSON format.

table 3.6-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.7 TargetFrame

This is used to register/delete/call Target Frames.

In order to process the Target Frame, the Auto Framing plug-in screen must be open in the Web browser. NOTE : This limitation will be removed in a future version.

It can be used when the AutoFraming function is enabled.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.7-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	string	Specify one of set , clear , or recall . set:register clear: Delete recall: Call
preset_num	Mandatory	Integer value	Specify the TargetFrame number to be processed by mode as an integer value of 1~20.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Register the current position in Preset1
http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=TargetFrame&id=1&mode=set&preset_num=1

Call Preset 20
http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=TargetFrame&id=1&mode=recall&preset_num=20

The command response is in JSON format.

table 3.7-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.8 TargetPosition

Used to select/add/remove framing targets.

It can be used when the AutoFraming function is enabled.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.8-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	string	Specify select, plus, or minus. select: Select plus: Add minus:delete
on_ref_cam	optional	Integer value	0: Specify the target on the framing camera (default) 1: Specify the target on the reference camera When the reference camera is not in linkage mode, the operation when 1 is set is undefined.
target_x	Mandatory	Integer value	The X coordinate of the specified point at the 1920x1080 coordinate of the upper left origin
target_y	Mandatory	Integer value	The Y coordinate of the specified point at the 1920x1080 coordinate of the upper left origin

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Select Target
http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=TargetPosition&id=1&mode=select&target_x=300&target_y=540

The command response is in JSON format.

table 3.8-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.9 TargetFace

This is used to configure Face Recognition settings.

It can be used when the AutoFraming function is enabled.

Since this feature requires an Advanced Auto Framing license, it can be used when the GUI Detail Setting – Framing Processor is PC_GPU.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.9-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	string	Specify either select or clear. select: Select clear : Clearing the face selection process
face_id	optional	Integer value	Specify the number of the face to be displayed on the Select Face screen of the GUI. Separated by commas, up to 4 can be specified Examples: 2, 5
name	optional	string	Specify the name of the face. (%22). Separated by commas, up to 4 can be specified Example: "BOB","Emi" %22BOB%22,%22Emi%22 Names must be registered only with letters and spaces. The behavior is indeterminate when symbols are included. If a face with the same name is registered, the face with a smaller face_id is specified.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Select Target (Specify ID)
http://192.168.0.200:1338/ cgi-bin/auto_framing?cmd=TargetFace&id=1&mode=select&face_id=1,2

Select Target (Name Specification)
http://192.168.0.200:1338/ cgi-bin/auto_framing?cmd=TargetFace&id=1&mode=select&name=%22BOB%22,%22cat%22,%22Emi%22

Clear Target
http://192.168.0.200:1338/ cgi-bin/auto_framing?cmd=TargetFace&id=1&mode=clear

The command response is in JSON format.

table 3.9-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.10 AutoZoom

It is used to change the enable/disable setting of the Auto Zoom function.

It can be used when the AutoFraming function is enabled.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.10-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	Integer value	Specify whether to enable or disable the Auto Zoom function. Specify either 0 (disabled) or 1 (enabled).

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Auto Zoom ON

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=AutoZoom&id=1&mode=1

Auto Zoom OFF

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=AutoZoom&id=1&mode=0

The command response is in JSON format.

table 3.10-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.11 AutoStartArea

It is used to change the settings of the Auto Start Area function.

It can be used when the AutoFraming function is enabled.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.11-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	Integer value	Auto Start Area 0: Disabled 1: Enabled
area_x	optional	Integer value	The X coordinate of the upper left of the rectangle at the 1920x1080 coordinates of the upper left origin
area_y	optional	Integer value	The Y coordinate of the upper left of the rectangle at the 1920x1080 coordinate of the upper left origin
area_width	optional	Integer value	The width of the rectangle at 1920x1080 coordinates of the upper left origin
area_height	optional	Integer value	The height of the rectangle at 1920x1080 coordinates of the upper left origin

If you don't want to send area_x, area_y, area_width, or area_height, delete area.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Auto Start Area Enabled

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=AutoStartArea&id=1&mode=1&area_x=100&area_y=150&area_width=300&area_height=200

Auto Start Area Disabled

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=AutoStartArea&id=1&mode=0

The command response is in JSON format.

table 3.11-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent

	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.12 MaskArea

It is used to change the settings of the Mask Area function.

It can be used when the AutoFraming function is enabled.

The list of transmission parameters is as follows.

table 3.12-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
area_id	Mandatory	Integer value	Mask Area Number (1~3)
area_x	optional	Integer value	The X coordinate of the upper left of the rectangle at the 1920x1080 coordinates of the upper left origin
area_y	optional	Integer value	The Y coordinate of the upper left of the rectangle at the 1920x1080 coordinate of the upper left origin
area_width	optional	Integer value	The width of the rectangle at 1920x1080 coordinates of the upper left origin
area_height	optional	Integer value	The height of the rectangle at 1920x1080 coordinates of the upper left origin

If you don't want to send area_x, area_y, area_width, or area_height, delete area.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

area_id=1

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=MaskArea&id=1&area_id=1&area_x=100&area_y=150&area_width=300&area_height=200

The command response is in JSON format.

table 3.12-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.13 FrameMapping

Use the Mapping function.

It can be used when the AutoFraming function is enabled.

It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.13-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.

Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

FrameMapping

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=FrameMapping&id=1

The command response is in JSON format.

table 3.13-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.14 CurrentFrame

It is used to adjust the Current Framing function. It can be used when the AutoFraming function is enabled.

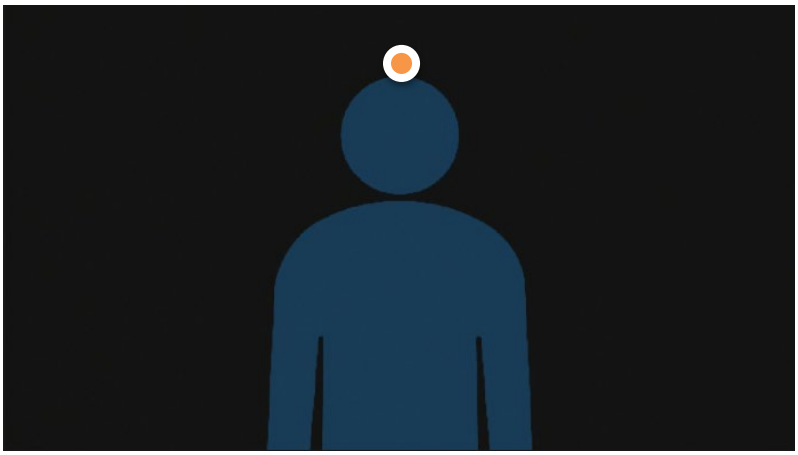
It cannot be used with a camera assigned to a reference camera.

The list of transmission parameters is as follows.

table 3.14-1 List of Transmission Parameters

name	use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
mode	Mandatory	Integer value	Adjustment mode absolute : Specify by absolute value relative: Relative value
target_x	optional	Integer value	absolute : Center X coordinate at 1920x1080 coordinates of the upper left origin relative : Relative value -100 ~ 100 (step) [NOTE] The API may limit the values from the specified to the values available for autoframing.
target_y	optional	Integer value	absolute : Upper Y coordinate at 1920x1080 coordinates of the upper left origin relative : Relative value -100 ~ 100 (step) [NOTE] The API may limit the values from the specified to the values available for autoframing.
auto_zoom_ratio	optional	Integer value	absolute : Size ratio to screen width (10~70) relative : Relative value -60 ~ 60 [NOTE] The API may limit the values from the specified to the values available for autoframing.

The coordinates specified by mode=absolute are the center of the top of the blue virtual figure. (Orange dot in the figure below)



Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Specified by absolute

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=CurrentFrame&id=1&mode=absolute&target_x=100&target_y=150&auto_zoom_ratio=30

Specify by absolute (target_x and target_y only)

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=CurrentFrame&id=1&mode=absolute&target_x=100&target_y=150

Specified by relative

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=CurrentFrame&id=1&mode=relative&target_x=-10&target_y=15

The command response is in JSON format.

table 3.14-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

3.15 GetImage

It is used to acquire images.

The list of transmission parameters is as follows.

table 3.15-1 List of Transmission Parameters

name	use	format	explanation
category	Mandatory	string	CurrentFrame : Get current framing image TargetFrame : Get thumbnail of Target Frame AdvancedPreset : Get thumbnail of Advanced Preset

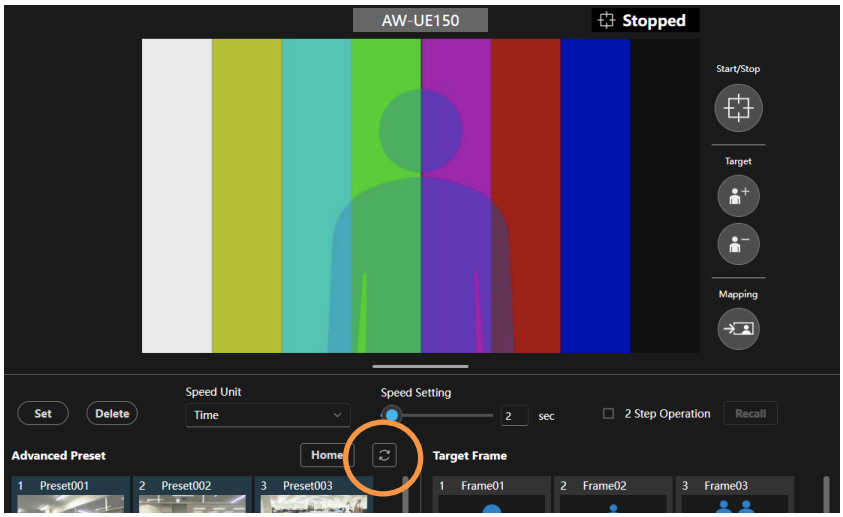
Parameter of category = CurrentFrame

name	Use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.

Parameters for category = TargetFrame and AdvancedPreset

name	Use	format	explanation
id	Mandatory	Integer value	Specify the ID number of the camera (1~). Specify the number of the camera displayed on the Device View screen of the Media Production Suite software.
number	Mandatory	Integer value	Specify the Target Frame or Advanced Preset number (1~).

NOTE: If the response is "specified target frame does not exist" for the TargetFrame that is set by default after setup, press the thumbnail reload button in the GUI.



Example of using the command:

This is an example of sending a command to a camera with ID = 1 of the Auto Framing plug-in running on a PC with IP address 192.168.0.200.

Get Current Framing images

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=GetImage&id=1&category=CurrentFrame

Retrieving Target Frame images

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=GetImage&id=1&category=TargetFrame&number=1

Advanced Preset Image Acquisition

http://192.168.0.200:1338/cgi-bin/auto_framing?cmd=GetImage&id=1&category=AdvancedPreset&number=2

The command response is content_type = "image/jpeg" if successful. If it fails, it is in JSON format.

table 3.15-2 JSON Definition

Object	JSON key	format	explanation
	Command	string	Commands sent
	Parameter	string	Parameters sent
	Response	string	ack / nack
	NACKDetail	string	If Response is nack, return details

