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| Dahua Webplugin SDK Guide |

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# Introduction

## Contents

### Files Introduction

|  |  |  |  |
| --- | --- | --- | --- |
| **Demo** | index.html | Demo web start page | |
| module | foundation.js | Foundation function module |
| WebVideoCtrl.js | Webplugin interface module:websdk |
| modifyUI.js | UI configuration module |
| demo.js | Demo’s logic module |
| lib | Jquery Framework,open-source js framework | |
| en/demo.html | Demo html file with english | |
| cn/demo.html | Demo html file with chinese | |
| css | CSS file of this demo | |
| **Doc** | This file(Dahua Webplugin SDK Guide) | | |
| **Package** | Dahua webplugin install package | | |

### Demo Introduction

This Demo is how to build a web application using the NetSDK, It can connect device,get video,show video etc.

## Runtime environment

IE10-/Chrome 45-/Firefox, webplugin.exe Installed

# Flow Introduction

## Plugin Flow chart



## Demo Flow chart



# Web SDK Interface

## Plugin Manager

### checkPluginInstall

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| checkPlguinInstall |  | Check the plugin is installed or not in the system? | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

### insertPluginObject

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| insertPluginObject | Name | Type | Description | Load video container of plugin to web? | Type | Decription |
| sContainerID | String | Container ID in Plugin |
| Boolean | true: Success  false: Fail |
| iWidth | Int | Container width |
| iHeight | int | Container height |

### initPlugin

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| initPlugin | Name | Type | Description | Initialize Plugin | Type | Decription |
| sProtocol | String | Protocol type |
| Boolean | true: Success  false: Fail |
| fnCallback | Function | When function return,call this function |

## Event Manager

### registerEvent

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| registerEvent | Name | Type | Description | Register Event to plugin | Type | Decription |
| sEventName | String | Event name |
| Boolean | true: Success  false: Fail |
| fnCallback | Function | When function return,call this function |

### Event Callback Function Definition

##### SelectedView

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| SelectedView | Name | Type | Description | When select one display window,then call this function? | Type | Decription |
| iNodeIndex | int | Current Display window Node ID |
| Boolean | true: Success  false: Fail |
| iViewIndex | Int | Current Display window View ID |
| iWinID | int | Current Display window ID |

## Display Window Manager

### createMultiNodeDisplay

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| createMultiNodeDisplay | Name | Type | Description | Create the display windows | Type | Decription |
| iNum | int | The num of display window that you want to create |
| Boolean | true: Success  false: Fail |

### setSplitNum

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| setSplitNum | Name | Type | Description | Set windows num to display | Type | Decription |
| iNum | int | The num of display window that you want to display |
| Boolean | true: Success  false: Fail |

### setFullscreen

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| setFullscreen |  | Switch to full screen,click “ESC” or right-hand click can exit full screen | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

## Device Manager

### login

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | | |
| login | Name | Type | Description | Login to the device | Type | Decription | |
| sIp | int | Device’s IP |
| int | >0 | login success |
| iPort | int | Protocol port,  3777:old device  80:new device |
| -1 | UserName or Password is wrong |
| sUserName | String | User Name |
| sPassword | String | Password |
| iRtspPort | Int | RTSP port,  Default:80 |
| iProtocol | Int | Protocol.  1:TCP  4:UDP  3:Multicast |
| -3 | Time out |
| -19 | The interface not exist |
| fnSuccess | Function | If login success,call this function |
| fnFail | Function | If login fail,call this function |

### logout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| logout | Name | Type | Description | Logout the device | Type | Decription |
| sIp | String | Device’s IP |
| Boolean | true: Success  false: Fail |

## Live

### connectRealVideo

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| connectRealVideo | Name | Type | Description | Live in current selected window | Type | Decription |
| sIp | int | The device’s IP |
| int | >0:Success  -1:No Authority  -2:Parameters wrong  -3:Logic error  -4:Operation error  -5:Network error |
| iChannel | int | The channel ID |
| iStreamType | int | The stream type |
| fnSuccess | Function | If return success,call this function |
| fnFail | Function | If return fail,call this function |

## Player Manager

### closePlayer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| closePlayer |  | Close video in current selected window | Type | Decription |
| Boolean | true: Success  false: Fail |

### getSelectedPlayerID

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| getSelectedPlayerID |  | Get current selected player ID | Type | Decription |
| int | >0: Player ID  0: Fail |

### getPlayerInfo

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | | |
| getPlayerInfo | Name | Type | Description | Get info of selected window | Type | Decription | |
| iWinID | int | The window ID |
| Object | ip | The device’s IP |
|  | channel | The channel ID |
| streamType | The stream type |
| type | The play mode:  1: Live  2:Playback by network  3:Local playback |

## Action with Video

### crabOnePicture

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| crabOnePicture | Name | Type | Description | Shapshot from the selected video window | Type | Decription |
| iFormat | int | The format of picture,  0: bmp  1: jpg |
| Boolean | true: Success  false: Fail |
| sPath | String | The path of picture to be saved |
| bOpen | Boolean | If return success, Open the picture or not |

### startRecordingVideo

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| startRecordingVideo | Name | Type | Description | Download video from selected window | Type | Decription |
| nFormat | int | The format of video to be saved  0: dav  1: avi  2: asf  3: mp4 |
| Boolean | true: Success  false: Fail |
| sPath | String | The path of video to be saved |

### stopRecordingVideo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| stopRecordingVideo |  | Stop Record from selected window | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

### enableEZoom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| enableEZoom |  | Enable enlarger video feature | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

### disableEZoom

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| disableEZoom |  | Disable enlarger video feature | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

## PTZ Control

### enablePTZLocate

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| enablePTZLocate |  | Enable PTZ function with selected window | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

### disablePTZLocate

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Parameters** | **Description** | **Return** | |
| disablePTZLocate |  | Disable PTZ function with selected window | Type | Decription |
| Boolean | true: Installed  false: Not Installed |

### moveUpwards

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveUpwards | Name | Type | Description | Let camera to move upward | Type | Decription |
| iVerticalSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| bFlag | Boolean | The flag of stop moving |

### moveLower

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveLower | Name | Type | Description | Let camera to move down | Type | Decription |
| iVerticalSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| bFlag | Boolean | The flag of stop moving |

### moveLeft

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveLeft | Name | Type | Description | Let camera to move left | Type | Decription |
| iLevelSpeed | int | The speed of moving in horizontal direction |
| Boolean | true: Success  false: Fail |
| bFlag | Boolean | The flag of stop moving |

### moveRight

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveRight | Name | Type | Description | Let camera to move right | Type | Decription |
| iLevelSpeed | int | The speed of moving in horizontal direction |
| Boolean | true: Success  false: Fail |
| bFlag | Boolean | The flag of stop moving |

### moveUpperLeft

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveUpperLeft | Name | Type | Description | Let camera to move uppper left | Type | Decription |
| iVerticalSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| iLevelSpeed | int | The speed in horizontal direction |
| bFlag | Boolean | The flag of stop moving |

### moveUpperRight

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveUpperRight | Name | Type | Description | Let camera to move uppper right | Type | Decription |
| iVerticalSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| iLevelSpeed | int | The speed in horizontal direction |
| bFlag | Boolean | The flag of stop moving |

### moveLowerLeft

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveLowerLeft | Name | Type | Description | Let camera to move bottom left | Type | Decription |
| iVerticalSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| iLevelSpeed | int | The speed in horizontal direction |
| bFlag | Boolean | The flag of stop moving |

### moveLowerRight

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| moveLowerRight | Name | Type | Description | Let camera to move bottom right | Type | Decription |
| iVerticalSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| iLevelSpeed | int | The speed in horizontal direction |
| bFlag | Boolean | The flag of stop moving |

### controlZoom

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| controlZoom | Name | Type | Description | Control the video Zoom out of Zoom in | Type | Decription |
| iSpeed | int | The speed of moving in vertical direction |
| Boolean | true: Success  false: Fail |
| iFlag | int | The flag of Zoom out or Zoom in  0: Zoom out  1: Zoom in |
| bFlag | Boolean | The flag of stop moving |

### controlAperture

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| controlAperture | Name | Type | Description | Control the aperture bigger or smaller | Type | Decription |
| iSpeed | int | The speed aperture changed |
| Boolean | true: Success  false: Fail |
| iFlag | int | The flag of change  0: bigger  1: smaller |
| bFlag | Boolean | The flag of stop change |

### PTZIrisIn

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| PTZIrisIn | Name | Type | Description | Control the Iris bigger or smaller | Type | Decription |
| iSpeed | int | The speed Iris changed |
| Boolean | true: Success  false: Fail |
| iFlag | int | The flag of change  0: bigger  1: smaller |
| bFlag | Boolean | The flag of stop change |

### startTour

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| startTour | Name | Type | Description | Control the Iris bigger or smaller | Type | Decription |
| index | int | The number of Tour  you chuse |
| Boolean | true: Success  false: Fail |

### stopTour

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| stopTour | Name | Type | Description | Control the Iris bigger or smaller | Type | Decription |
| index | int | The number of Tour  you chuse |
| Boolean | true: Success  false: Fail |

## Traffic statistics

### startTrafficDataQuery

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| startTraficDataQuery | Name | Type | Description | Enable to query trafic data | Type | Decription |
| sIp | String | Device’s IP |
| int | >0:The Query handle  0: Fail |
| iChannel | int | The channel’s ID |
| sStartTime | String | The starting time of quering  Format:  "2013-12-11 23:59:59" |
| sEndTime | String | The ending time of quering  Format:  "2013-12-11 23:59:59" |
| iRuleType | int | The rule’s mode,  0: Counting In Region  1: People Counting |
| iSpan | int | The unit of interval  0:hour  1:day |
| iMinStayTime | int | The mini time of staying |

### getTrafficDataTotalCount

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Parameters** | | | **Description** | **Return** | |
| getTrafficDataTotalCount | Name | Type | Description | Get total count of traffic data | Type | Decription |
| iHandle | int | The query handle |
| int | The query result count |