CMS Manual

Data Center ........................................................................................................... 4

Running .................................................................................................................. 4
Configuration ......................................................................................................... 5

CMS Settings ........................................................................................................... 8
Global User Manager ............................................................................................ 8
Video Devices ......................................................................................................... 11
Non-Video Devices ............................................................................................... 13
Video Wall ............................................................................................................... 17
Client Station and Event Center ......................................................................... 20
Multi-level Data Centers Manager ....................................................................... 25

Live View .............................................................................................................. 26

Playback ............................................................................................................... 26
Multi-play ............................................................................................................... 27

Device Status ........................................................................................................ 28
Searching Filter .................................................................................................... 28
Device Information Overview ........................................................................... 29
Device Status ......................................................................................................... 29
Status Indicators .................................................................................................. 29

Video Wall ............................................................................................................ 29
Define Video Wall ................................................................................................. 30
Show Video Screen ............................................................................................... 30
Toolbar Buttons ................................................................................................... 30
Save Connection Scheme ................................................................................... 31
Load Connection Scheme .................................................................................. 31
Switch Video Wall ................................................................................................. 31

Image Files .......................................................................................................... 31
Group Snapshot Setup ......................................................................................... 31
Image Files ............................................................................................................ 32

Events ................................................................................................................... 32
Max Rows .............................................................................................................. 32
Event Record Setup .............................................................................................. 32

Digital Matrix ...................................................................................................... 33

Running .................................................................................................................. 33
Device type ............................................................................................................ 34
Configuration ......................................................................................................... 34
Parameter Settings ............................................................................................... 34
User Manager ......................................................................................................... 36
System Information ........................................................................................................... 36
System Logs ....................................................................................................................... 36
Device Status ...................................................................................................................... 36
Update/Submit ..................................................................................................................... 36

Streaming Proxy................................................................................................................. 37
  Running .............................................................................................................................. 37
  Configuration .................................................................................................................... 37
    Parameter Settings .......................................................................................................... 37
    User Manager .................................................................................................................. 39
    System Information ........................................................................................................ 39
    System Logs .................................................................................................................... 39
    Device Status .................................................................................................................. 39
    Update/Submit .................................................................................................................. 39

DDNS .................................................................................................................................. 40
  Running .............................................................................................................................. 40
  Configuration .................................................................................................................... 40
    Parameter Settings .......................................................................................................... 40
    User Manager .................................................................................................................. 41
    System Information ........................................................................................................ 41
    System Logs .................................................................................................................... 41
    Device Status .................................................................................................................. 42
    Update/Submit .................................................................................................................. 42

Advanced Unit .................................................................................................................... 42
  Running .............................................................................................................................. 42
  Configuration .................................................................................................................... 42
    Parameter Settings .......................................................................................................... 42
    User Manager .................................................................................................................. 43
    System Information ........................................................................................................ 43
    System Logs .................................................................................................................... 43
    Device Status .................................................................................................................. 43
    Update/Submit .................................................................................................................. 44

Cloud Backup ..................................................................................................................... 44
  Running .............................................................................................................................. 44
  Configuration .................................................................................................................... 44
    Parameter Settings .......................................................................................................... 44
    User Manager .................................................................................................................. 46
    System Information ........................................................................................................ 46
    System Logs .................................................................................................................... 46
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Status</td>
<td>46</td>
</tr>
<tr>
<td>Update/Submit</td>
<td>46</td>
</tr>
<tr>
<td><strong>Alarm Event Proxy</strong></td>
<td>47</td>
</tr>
<tr>
<td>Running</td>
<td>47</td>
</tr>
<tr>
<td>Configuration</td>
<td>47</td>
</tr>
<tr>
<td><strong>IP Device Alarm Proxy</strong></td>
<td>48</td>
</tr>
<tr>
<td>Running</td>
<td>48</td>
</tr>
<tr>
<td>Configuration</td>
<td>48</td>
</tr>
<tr>
<td>System Setup</td>
<td>48</td>
</tr>
<tr>
<td>Alarm Site Setup</td>
<td>49</td>
</tr>
<tr>
<td><strong>Operations</strong></td>
<td>49</td>
</tr>
<tr>
<td>Refresh</td>
<td>50</td>
</tr>
<tr>
<td>Send CMD</td>
<td>50</td>
</tr>
<tr>
<td>User Admin</td>
<td>50</td>
</tr>
<tr>
<td><strong>E-map</strong></td>
<td>50</td>
</tr>
<tr>
<td>Running</td>
<td>50</td>
</tr>
<tr>
<td>Configuration</td>
<td>51</td>
</tr>
<tr>
<td>Parameter Settings</td>
<td>51</td>
</tr>
<tr>
<td>User Manager</td>
<td>51</td>
</tr>
<tr>
<td>System Information</td>
<td>51</td>
</tr>
<tr>
<td>System Logs</td>
<td>51</td>
</tr>
<tr>
<td>Device Status</td>
<td>51</td>
</tr>
<tr>
<td>Update</td>
<td>51</td>
</tr>
</tbody>
</table>
Data Center

**Data Center** is used to manage and set the system data as an important database module in whole system. **Data Center** helps user with realizing the centralized system managements. All system components could all be high-effective controlled and configured.

**Running**

Run **Datacenter.exe** from the folder programs installation and **Windows Start** folder to open the dialogue box Data Center service control, and click the button **Start**, as shown below.

**Note:** When **Enable Web Service** ticked, Apache service would be activated and enable the web service of Data Center. When **Autorun when OS Startup** ticked, the service will automatically run after OS startup.

Wait for the appearance of the service startup processing hint.

**Note:** It would be spent more time on startup at first time since creating and configuring the database and other parameter items.

The Data Center service successfully starts up, the status as shown below.

Click on the button **Setup>>** to open the dialogue box System Setup, which is used for data backup, restore and update to database routinely, as shown below.

**Note:** The buttons **Vacuum, Reindex, and Migrate Group Snapshot Path>>** will be
detailedly introduced in the next related chapters.

After finishing all operations and settings, click on the button **OK** to minimize the window to run in the background, as shown below.

### Configuration

Run **CenterMonitorStation.exe** to enter the dialogue box CMS Control Panel, and select **Center Monitor Station** from the dropdown **Control Type**, and then input Data Center IP address, port(default ‘8001’), username and password. Finally click **OK**. As shown below.

**Note:** By default Primary monitor is selected in the field **Display Control**. If you are using multiple monitors and need to place the dialogue into other secondary monitor, please select the radio box **Secondary monitor**.

Also click the button **Setup>>** in Data Center service control panel or run IE browser, and then type Data Center IP address or domain name into the address field, as shown below.

If there's no any error, the home page of system will be opened, as shown below.
Click on the link **Download** to download and install the ActiveX Control. Click on the button **Save** to save the AX control onto the assigned path. After waiting for the end of download processing, run the executable file **TCVideo.exe** to execute the installation, as shown below.

**Note:** If you just use **CenterMonitorStation**, this page will not appear.

**Note:** At the first the AX control installation must be required while entering the management pages, or else some important features would not normally work.

After finishing the AX control installation, click on the link **Enter** to enter the setup pages on the home page, as shown below. Input valid user name and password into the relative fields, and then click **Login**.

**Note:** Default user name is **Supervisor**, and password is null. **Tick Remember Password** to save all input info for the next logins. **Auto Login** ticked would automatically dismiss login page and directly enter into the main page. For the details of **Use windows domain user**, please refer to the next related chapters.
After login succeed, enter the main page of CMS, as shown below.

**Introductions:**
- **Region1** includes the navigation buttons for each management module, such as CMS Settings, Live View, Playback, Device Status, Video Wall, Image Files, Events, and Digital Matrix.
- **Region2** includes 4 buttons, Refresh, Modify Password, and Switch User in order from left to right.
- **Region3** displays current login user name.
CMS Settings

Functions:
- Global user management
- Define video and non-video device
- Video wall settings
- Client station and event center management
- Multi-level Data Center management

Global User Manager

Add/Delete/Edit User Group
Define or modify user group name, description, level, affiliation, and whether to permit multi-login and change login password.

Click the button **More** to open More dialogue box as the left figure shown.
Streaming Proxy -- bind the user to one streaming proxy server.
UI Mode -- assign the user to use special kind of UIs. If no change, the user will use the normal UI.
Login Time Scheme -- assign one special scheme for the user to login.
Max Screen Division -- assign the max number of screen division for the user to use.

*Note:* for the detailed info of Match Windows Active Directory User Group, please refer to the subsequent related chapter.

**Edit User**
Click the button **Edit User** to open Edit User dialogue box as the right figure shown.

**Add User/Modify User Information/Delete User** -- used to add, modify, and delete user information.

**User Group Priority** -- used to set the priority level of different user group when one user is affiliated to multi-group.

**Allocate User Group** -- used to assign the user to the relative user group as the below figure shown.
Authorities Manager
Define all global authorities to user, including Video Device, Client Station, and Data Center.

Video Device -- used to assign the authorities for the user to control and configure the on-site video devices.

Note: Conveniently use the button Copy to... to copy all defined properties of the current device to other under-defined devices.

Client Station -- used to assign the authorities for the user to operate and manage Client Station.

Data Center -- used to assign the authorities for the user to operate and manage Data Center.
Video Devices

Define all video devices, including IP camera, DVR, NVR, and PC-based DVR/NVR etc.

Define Video Devices
Click the button New to define Server Name (user-defined), Type, IP address, Port, Total Channels, User name, Password, Location and Description etc. Click the button Save to finish.

Note: if you have no yet define Streaming Proxy server, please keep the relative items unchanged by default. For the details of Streaming Proxy, please refer to the subsequent chapter. Network Status is used automatically to set the video quality of live view according to your network bandwidth. You can select one from 3 different kinds of network bandwidth, High, average, and low.
**Active** -- enable or disable the current defined server.

**Time Sync** -- used to synchronize the system clock of the current defined server to clock sync server (Advanced Unit).

**Streaming Proxy** -- video connection proxy server of the current defined server.

**Use Video Proxy** -- enable video proxy function of Streaming Proxy server.

**Use Command Proxy** -- enable command proxy function of Streaming Proxy server.

**Copy To...** -- copy the related setting parameters of the selected server to other servers.

**Get Online Devices** -- click to get and list up all the online devices that can be discovered.

**Delete** -- delete the current selected video server.

**Sync** -- used to get the parameters (channel/alarm amount and name) from the current selected channels of the on-site device.

**More** -- define the used sensor number, alarm-out number, the index number of video channel linked to voice chat, the sensor triggered to voice chat, HTTP port (default 80), mobile device type, voice chat enabled/disabled, stream continuity priority (default real-time priority). Refer the right figure as shown.

**Video Channels** -- list all video channels from the current selected video server.
ID: the index number responding to each channel.

Use Sub-stream by Default: selected to connect sub-stream for live view.

Disable Switch Stream: selected to disable to change the current stream.

Enable: selected to enable the current channel able to used.

Note: Virtual Channel used for fisheye camera. For the more details, please refer to the subsequent related chapter.

Sensors -- list all sensors from the current selected video server.

ID: the index number responding to each sensor.

Description: the name of each sensor.

Enable: selected to enable the current sensor able to used.

Alarm Outputs -- list all alarm outputs from the current selected video server.

ID: the index number responding to each alarm output.

Description: the name of each alarm output.

Enable: selected to enable the current alarm output able to used.

Define Camera Group

Capable of distributing the video channels from the different video servers into each logical camera group, and further defining multi-level group.

Define group name, description and to enable/disable switching in groups with a user-defined interval (Sec.). For auto-switch setting, click the Automatic Switch button to open the Automatic Switch dialogue box. According to your condition, set auto-switch on client station or matrix video wall. Drag and drop or use left-right arrows to move the video channels under the server list into the camera groups from right to left.

Non-Video Devices

Define all non-video devices and servers, such as streaming proxy, matrix, DDNS, alarm, and
Define Streaming Proxy Servers
Input IP address, Port (default ‘8003’), User name (default ‘Supervisor’), Password (default null) and Description (user-defined) for proxy server.

Note: If you need to set mobile client accessing, you should input Mobile Phone Port (default ‘8089’). Click the Device Manage button able to open the Streaming Proxy Service configuration panel used to run and set the service. In regard to run and set a Streaming Proxy Server, please refer to the featured introduction of Streaming Proxy Server.

Define Matrix Servers
Input Name (user-defined), IP address, Port (default ‘8002’), Output amount, User name (default ‘Supervisor’ and Password (default null) for the matrix servers.

Note: The Device Manage button used to open the Matrix Service configuration panel for running and setting the service. In regard to run and set a Matrix Server, please refer to the featured introduction of Matrix Server.
Define DDNS
Input DDNS(Dynamical Domain Name Server) name, IP address, CMD Port(default ‘8004’), DDNS port(default ‘54’), User name (default ‘Supervisor’), and Password (default null). You can add one more DDNS alternate server as the same settings than main.

Note: The Device Manage button used to open the DDNS Service configuration panel for running and setting the service. In regard to run and set a DDNS Server, please refer to the featured introduction of DDNS Server.

Define Alarm Servers
Input Server Name(user-defined), IP Address, Port(default ‘8010’), Sensor amount, Alarm Output amount, User name (default ‘Supervisor’), and Password (default null). Select Device Type(default ‘IP Alarm Proxy’). You can also get amount of sensor and alarm output from the on-site device through clicking the Sync button.
**Note:** The Device Type includes 2 kinds of alarm host. One kind is IP Alarm Proxy special for the IP alarm server, and another is Event Alarm Proxy special for the alarm box based on local COM, 232, or 485 port. The Device Manage button used to open the IP alarm proxy Service configuration panel for running and setting the service. In regard to run and set an IP Alarm Proxy Server, please refer to the featured introduction of IP Alarm Proxy Server.

---

**Define Cloud Backup Server**

Define a backup server based on remote network in monitoring center. Input Server Name(user-defined), IP Address, CMD Port(default ‘8005’), HTTP CMD Port(default ‘8090’), User name (default ‘Supervisor’), and Password (default null).

**Note:** The Device Manage button used to open the Cloud Backup Service configuration panel for running and setting the service. In regard to run and set a Cloud Backup Server, please refer to the featured introduction of Cloud Backup Server.
Digital Maps
Set E-map Working Mode
Used to confirm using one of 2 kinds of E-map mode, one is Google mode, and another is custom mode. For the Custom E-map, input Server Name(user-defined), IP Address, Port(default ‘8008’), User name (default ‘Supervisor’), and Password (default null).

Note: The Device Manage button used to open the E-map Service configuration panel for running and setting the service. In regard to run and set a E-map Server, please refer to the featured introduction of E-map Server.

E-map Data Servers
Content Alias
Used to display global server, video channel, sensor, and alarm output alias. You can set and modify them.

Video Wall
Define Video Wall
Create a virtual video wall template used to control the actual matrix input and output. You need to define one or multiple Matrix Server in advance through click the Define Matrix Servers button to open the Define Matrix Servers dialogue box and finish all
related settings. For more details, please refer to the previous chapter about this setting. Then click the **New** button to open the Video Wall Properties dialogue box and input the name of new video wall, and then click **OK** to exit.

Drag and drop an icon into the workplace from the toolbar at the left, and drag and drop an output icon under the matrix server tree into the virtual TV image to finish binding to create a video output of video wall.

Actually a matrix server would have multiple output so that each output needs an exclusive ID. Press down the **Identify** button to display the ID of each output in the workplace in order to help you with rearranging position and sequence.
Define Keyboard Control ID
For keyboard operations, you can set the index numbers for the various objectives, such as video server, video channel, camera group, video wall, video output, and layout schedule etc.. For more details, please refer to the Keyboard Operation Manual.

Client Station Alarm-connection Synchronous Display
To set video connection pushing to video wall when client side receives alarm message, you need to select a video wall scheme from the Switch Video Wall drop down at fisrt, and then drag and drop a video grid under the Video-display Channel on Client Station tree into the gird of output image on the matrix server.
Client Station and Event Center

Group Snapshot Setup
Define the group snapshot of client uploading to database. You need to create the titles for snapshot images as group-mode, for example, time, location, evaluation, and description etc..
Besides help user with more simple operating through setting Mnemonic Code, and request user to deal with the necessary inputting item through selecting Mandatory check box.

Click the Archive Setup button to open the Archive Setup dialogue box. You can set the various parameters for group snapshot archiving, such as auto overwrite, archiving days, archiving path etc..
**I/O Control Setup**

Used to define the descriptions of alarm output on video device and alarm server. Use the arrow button or drag and drop into the list at the right side, and highlight and input the descriptions. Click **Save** to save setting.

**Event Action and Alarm Relationship Setup**

Used to set client alarm relationships and actions and registering items on data center event logs.

- **Email/SMS/Telephone Alarm Actions** -- Used to set client alarm actions, such as email, SMS, and phone call etc..

**Email Settings**
Digital Video Network Surveillance System

HTTP://UNISIGHT.NET
Unisight Digital Technologies, Inc.
For more information, please contact:
99 Inverness Drive East, Suite 180, Englewood, CO 80112
EMAIL inquiries@unisight.net PHONE 001-303-680-6629 FAX 001-303-680-6630

SMS Settings

Event Center Logs -- Used to set the registering items of event center.
Video Server/Channel Alarm Relationships
Selecting server or video channel from the left list can both do the related relationship settings.

Video Channel Link -- Used to set the alarm relationship of video-channel-to-video-channel. Click the Video Channel Link button to open the Video Channel Link dialogue box. Select and move the needed video channels to the right list from the left server list.
Sound File -- For video channel select the related sound file used when alarm triggering.

Alarm output Alarm Relationships
Select the alarm output from the left list to do the related relationship settings through selecting the actions from action list.
**Alarm Output Link** -- Used to set the alarm relationship of alarm-output-to-alarm-output. Click the **Alarm Output Link** button open the Alarm Output Link dialogue box. Select and move the needed alarm outputs to the right list from the left server list.

**Multi-level Data Centers Manager**

Used to set remote data center connection information and retrieve the data to local from the remote center. Commit local license file to data center for the bound clients auto remote getting.

Click the **New** button to input Data Center name, Description, IP Address, Port(default ‘8001’), Username(default ‘Supervisor’), and Password(default null). Click the **Save** button to save the new data center. You can use the **Sync** button to synchronize data from the
remote data center, and also the **Delete** button to delete the current data center.

## Live View

**Functions:**

- Simultaneously live viewing the video channels max up to 64ch
- Support panorama view
- Support remote recording, snapshot and digital zoom in/out
- Support volume adjustment, video parameters setting and PTZ control

Select video device, server, or camera group from the left tree, and then the video channels from the right list. Click the Connect button to connect video.

*Note: You can use *Shift* or *Ctrl* key to multi-select or unselect video channels.*

## Playback

**Functions:**

- Support simultaneous playing back multiple video channels max up to 16ch
- Support searching the footages according to Date/Hour/Minute/Second, Channel and Type
- Support playback controls under streaming mode and snapshot
- Support remote multi-task footage downloading
- Support timeline searching and playing
Select a video device, server, or camera group from the left tree, and searching filter condition from the right panel. Click **Search** button to display all the footages conform to the condition. Double click the footage to start playback. Also you can start playback through dragging the slide bar to the time point.

**Multi-play**

Click the **Multi-play** button to open the Multi-play dialogue box. Select the video channels need to playback and set the date and time of beginning. Click **OK** to start multi-play.

**Note:** You can also double click the timeline, and then a minute and second setting dialogue box would pop up. Input your time to finish the setting.
Device Status

Functions:
- Monitoring real-time channel status
- Monitoring real-time alarm I/O status
- Inspecting system information from the video devices
- Global health-monitor overview
- Multi-filters device searching and displaying

Searching Filter

Capable of filtering and displaying the devices via various conditions, such as Data Center,
Location, Type, Channel amount and Device states.

**Device Information Overview**

Display Name, Description, IP address, Port, Channel amount, Location, Current status/links, Data Center source and Recording days.

**Device Status**

Monitor and inspect the multiple kinds of device information, such as Channel/Alarm I/O status, Memory/CPU usage, Logic disks, NIC flux, Process and Service etc..

**Status Indicators**

Status indicators can intuitively present the device current status in the mode of thumbnails.

<table>
<thead>
<tr>
<th>Normal</th>
<th>Abnormal</th>
<th>Offline</th>
<th>Warning</th>
</tr>
</thead>
</table>

*Note: To IP camera and Embedded device, unable to get the related information about OS and hardware.*

**Video Wall**

**Functions:**
- Intuitively define the layout of public view
- Drag-and-Drop operating video output
- Multi-layouts management and control
- Auto-switch on saving layout schemes
Click the **Video Wall** button to enter the Matrix Control panel, and then select a video wall scheme defined earlier from the Switch Video Wall drop down. Drag and drop the channels from video server list onto the cells you wish. When connecting successfully, the cells populated will present yellow color. If you drag and drop a server node or multiple channels onto a cell, all connected channels will be populated into a continuous sequence of cells in yellow color.

**Note:** Also use the button to populate the selected channels into the cells.

**Define Video Wall**

Click the **Define Video Wall** button to return back to the CMS Settings -> Video Wall -> Define Video Wall page. You can start to create a new video wall.

**Show Video Screen**

Selected to show the current connecting video at the bottom of left side.

**Toolbar Buttons**

**Single View to Multi-unit Full Screen**

Used to expand the current video channel to the full screen combined with all outputs.

**Single Output to Multi-unit Full Screen**

Used to expand the current video output to the full screen combined with all outputs.

**Video Grid Layouts**
Used to switch among the various grid layouts.

**Default Screen**

_used to return to the default grid layout._

**Disconnect/Disconnect All**

_used to disconnect the current video connection, and the right is disconnecting all video connections._

**Start/Stop Group Switch**

_used to start and stop group switch mode._

**Note:** *Click the Start Group Switch button would open a group selection dialogue box. You can select one or multiple group for switching. After connecting, group switching grid would work as blue hint.*

**Pause Group Switch**

_used to pause group switch mode._

**Save Connection Scheme**

_Click the Save Connection Scheme button to open the Save Connection Scheme dialogue box. Input a name into the Scheme Name field and click OK to save the current video connection scheme._

**Load Connection Scheme**

_Click the Load Connection Scheme button to open the Load Connection Scheme dialogue box. Select the connection scheme previous saved and click OK to load and start a video connection scheme._

**Switch Video Wall**

_used to select and switch to another video wall settings._

**Image Files**

**Functions:**
Uniformly managing the group-snapshot images from client side, and offering a professional and logical event searching UI for user.

**Group Snapshot Setup**
For the details about group-snapshot setup, please refer to the chapter, CMS Settings->Client Station and Event Center->Group Snapshot Setup.

**Image Files**

Through date/time range, location, title, and including content, you can get the searching results in the center field. When selecting an item, the related images would be shown in the right list. Click the Details button to open the Image Viewer dialogue box. The images and related descriptions would be shown.

**Events**

**Functions:**
Search and manage the global system logs
You can search the results through setting filter conditions, such as data/time, event type, and operating user.

**Max Rows**
Used to set the row max number showing log items.

**Event Record Setup**

Click the Event Record Setup button to open the Event Record Setup dialogue box. You can set the max log archiving days.
Digital Matrix

Digital Matrix Server is responsible for decoding compressed video stream and outputting into video wall, which you can manage and control in Data Center.

Running

Double click DigitalMatrix.exe to open video standard option dialogue box. Select one of two kinds of video standard according to your condition. Click OK to open the Digital Matrix control panel.

Select one of decoding devices from the Device type drop down, and click the button Start to start the service. When the service startup succeeds, click 'OK' to dismiss the dialogue. As shown below.
Note: When Enable Web Service ticked, Apache service would be activated and enable the web service of Digital Matrix. When you tick the check box Autorun when OS Startup, Digital Matrix Service will automatically run after OS startup.

Device type

- VGA/DVI/HDMI -- Use CPU decoding and the video inputs of graphics card.
- VGA/DVI/HDMI-Advanced -- Use CPU decoding, the video inputs and core-acceleration of graphics card.
- Net Device -- Use the network decoding device.
- Decode Card -- Use the decoding card.

Configuration

Click the button Setup>> in the Digital Matrix control panel to enter matrix server setup window, and input user name and password (Default ‘Supervisor’ and null) to logon.

Note: When you select the different type of decoding device, setup window might include the different settings. Select VGA/DVI/HDMI-Advanced as an example below.

Parameter Settings

Matrix Server Setup
Select the Matrix Server Setup to display the Matrix Server Setup page.
**Enhanced Decoding Number** -- Set max amount of output channel using core-acceleration decoding.

**Adapter Output** -- The video output amount, and max to 16.

**Division Type** -- Set the default video channel amount and layout to display, and includes 1/4/6/7/8/9/10/13/16/25/36/64.

**Auto Switch to Sub-stream Preview** -- Set the video amount when more than which live view would auto switch to sub-stream. It includes 1/4/9/16.

### Matrix Server Advanced Setup

- **Switch By One Group in One Single Screen** -- If selected, group switch function will orderly populate all videos in one group into single screen.

- **Allow Multiple Connections** -- If selected, one video channel will be allowed to connect repeatedly.
Smooth Switch Video Channel -- If selected, the current video channel would be disconnected until the next video connection up.

Video Real-time Control -- Used to control the quality of video real-time.

Display Quality -- Used to control the image quality.

Switch to Single Screen when Alarm Detected -- If selected, the video channel related to the being triggered alarm would stand out to display as single screen.

Restore Screen Division after Alarm Actions -- If selected, the previous video grid layout would be restored after alarm action.

Auto Connecting as the Previous Scenario when System Startup -- If selected, the last video connecting scheme would be auto connecting when system startup.

Alarm Video Connection Holding Time -- Use to set the duration of video connection being kept when alarm triggered.

When the Alarm Video has been Connected -- Used to select if reconnecting when the video channel related to alarm had being connected.

Define DDNS
Add the IP address, port (Default ‘53’), user name and password of Domain Name Server, which provide DDNS service for matrix server.

User Manager
Manage the user accounts to matrix server.

System Information
Inspect the information about hardware and environment of matrix server.

System Logs
Search and print system log information on matrix server by time/date and type.

Device Status
Monitor real-time system information, such as CPU, memory, hard drive and network flux usages etc., as well remotely shut down/start up the server.

Update/Submit
Update and retrieving setting data from on-site server, and submit current defined data to on-site server.
Streaming Proxy

Streaming Proxy Server is responsible of multiple transmitting data and video stream on Unisight platform, by which the entire system can efficiently control network bandwidth usage and avoid the bottleneck appearance with on-site video device, thereby improve pressing-proof of capability.

Running

Run Gateway.exe from the folder of Windows programs or Unisight Softwares installation to open the Streaming proxy Server control panel.

Click the button Start to start up the Streaming proxy service. Wait for a moment to initialization completed.

Configuration

Enter to the Streaming Proxy Server Setup page after clicking the button Setup>> , that offers all settings about the Streaming Proxy Service.

Parameter Settings

Streaming Proxy Cascade Setting
Used to set the Streaming Proxy servers cascading to the current Streaming Proxy server. The default cascading server would be automatically used by the video servers bound with the current proxy server.
Click the button **New** for the cascading streaming proxy server to define name, IP address, port (Default ‘8003’), user name and password (Default ‘Supervisor’ and null), and then click the button **Save** to save the settings. You can also click the button **From Data Center** auto to load the proxy servers defined in Data Center. Click **Submit** to submit all settings. Support adding multiple cascading streaming proxy servers, and only select one as default.

**Static Routing Table**

Click the button **New** and input the server name, IP address, port, and select a proxy server from the drop down Streaming Proxy, and then save all settings to add a video server. You can continue add more video servers, which need to be specially assigned to other streaming proxy servers except default one. You can also click the button **From Data Center** auto to load the video servers defined in Data Center. When all settings are completed, click **Submit** to submit all settings.

**Network Connection**

Used to select video connection speed. You can select one of 3 options, such as Normal Speed, Activate Accelerator, and Deactivate Accelerator etc.. The faster speed would consume the more system resource. If tick the check box Activate User Repeated Login
Checking Mode and input the Data Center info, all the users in the Data Center will not allowed to repeat connecting video at the different location.

Define DDNS
Add the IP address, port (Default ‘53’), user name and password of Domain Name Server, which provide DDNS service for streaming proxy server.

PDA
Used to define the video devices connected by PDA clients. You can add video devices manually, and also auto load the video devices defined in the Data Center by clicking the button From Data Center.

Note: If you are ENT version user, you will not need do any setting to this option only for Pro version user.

User Manager
Manage the user accounts to streaming proxy server.

System Information
Inspect the information about hardware and environment of streaming proxy server.

System Logs
Search and print system log information on streaming proxy server by time/date and type.

Device Status
Monitor real-time system information, such as CPU, memory, hard drive and network flux usages etc., as well remotely shut down/start up the server.

Update/Submit
Update and retrieving setting data from on-site server, and submit current defined data to on-site server.
DDNS

DDNS (Dynamic Domain Name Service) is responsible for building the links among all on-site devices, servers, and clients, which can help you with using a cost-efficient built-in utility without third-party fee-for-service for your all applications.

Running

Run DDNS.exe from the folder of Windows programs or Unisight Softwares installation to open the Dynamic Domain Name Server control panel.

![Dynamic Domain Name Server](image)

Click the button Start to start up DDNS service. Wait for a moment to initialization completed.

![Dynamic Domain Name Server](image)

Click the button Setup>> to the next step. **Note:** When Enable Web Service ticked, Apache service would be activated and enable the web service of DDNS. When you tick the check box Autorun when OS Startup, DDNS Service will automatically run after OS startup.

Configuration

Enter to the DDNS Server Setup page after clicking the button Setup>>, that offers all settings about the DDNS Service.

Parameter Settings

- **DNS Cascade Setting**
  
  Input IP address and port (Default ‘8004’ to define a Dynamic Domain Name server cascading to the current DDNS server.
Expansion DNS
Used to define a 3rd-party DDNS server special for some devices only supporting self-contained DDNS. So far, only Dahua’s supported.

User Manager
Manage the user accounts to Dynamic Domain Name Server.

System Information
Inspect the information about hardware and environment of Dynamic Domain Name Server.

System Logs
Search and print system log information on Dynamic Domain Name Server by time/date and type.
Device Status

Monitor real-time system information, such as CPU, memory, hard drive and network flux usages etc., as well remotely shut down/start up the server.

Update/Submit

Update and retrieving setting data from on-site server, and submit current defined data to on-site server.

Advanced Unit

Advanced Unit is a clock synchronization component at the Unisight solution platform, which is responsible of synchronizing time for all on-site devices and servers in entire system.

Running

Run AdvancedUnit.exe from the folder of Windows programs or Unisight Softwares installation to open the Advanced Unit control panel.

Click the button Start to start up the Advanced Unit service. Wait for a moment to initialization completed.

Configuration

Enter to the Advanced Unit Server Setup page after clicking the button Setup>> , that offers all settings about the Advanced Unit Service.

Parameter Settings

Runtime Parameter Settings

In the field Timer Setting, input IP address and port (Default ‘8007’) to define an advanced
unit server cascading to the current server.

In the field Data Center Information, input IP address, port, user name, and password. Input a time value for the Data Center Data Interval which is used to get device info from the Data Center periodically, and synchronization interval to synchronize all devices subordinate to Data Center.

In the field Synchronizing Period, enable the check box Enable Period, and input a time value for Period Interval which is the duration between twice synchronization.

**Note:** The objectives of time synchronizing process from advanced unit are all devices and servers so that the device and server information is needed to update from the Data Center periodically.

**Define DDNS**
Add the IP address, port (Default ‘53’), user name and password of Domain Name Server, which provide DDNS service for Advanced Unit server.

**User Manager**
Manage the user accounts to advanced unit server.

**System Information**
Inspect the information about hardware and environment of advanced unit server.

**System Logs**
Search and print system log information on advanced unit server by time/date and type.

**Device Status**
Monitor real-time system information, such as CPU, memory, hard drive and network flux usages etc., as well remotely shut down/start up the server.
Update/Submit

Update and retrieving setting data from on-site server, and submit current defined data to on-site server.

Cloud Backup

Used to backup to a remote FTP server the related recording data from the alarm triggered by sensor, which would be archived as a copy of the data from on-site recording storage device.

Running

Run **CloudBackup.exe** from the folder of Windows programs or Unisight Softwares installation to open the Cloud Backup control panel.

Click the button **Start** to start up the Cloud Backup service. Wait for a moment to initialization completed.

Configuration

Enter to the Cloud Backup Server Setup page after clicking the button **Setup>>**, that offers all settings about the Cloud Backup Service.

Parameter Settings

Backup File Setup
Set the Pre/Post recording time based on alarm recording. Set the interval of trying connection between twice failing on connection. Set if need to convert into the standard...
video format as remote archiving.

Cloud Backup Setup
Enable or disable the Cloud Backup service. Input FTP URL, username, password, and destination folder to set a FTP cloud storage server.

Local Backup Setup
Enable or disable the local archiving as Cloud Backup service. Set local storage path and the threshold space for disk protection.
Cloud Backup Event Log
Enable or disable registering cloud backup event log and more detailed log. Set the archiving days.

Define DDNS
Add the IP address, port (Default ‘53’), user name and password of Domain Name Server, which provide DDNS service for Advanced Unit server.

User Manager
Manage the user accounts to advanced unit server.

System Information
Inspect the information about hardware and environment of advanced unit server.

System Logs
Search and print system log information on advanced unit server by time/date and type.

Device Status
Monitor real-time system information, such as CPU, memory, hard drive and network flux usages etc., as well remotely shut down/start up the server.

Update/Submit
Update and retrieving setting data from on-site server, and submit current defined data to on-site server.
Alarm Event Proxy

Used to set the PC linked with alarm device and be allocated to the Unisight Data Center or Client application as remote alarm host.

Running

Run AlarmGateway.exe from the folder of Windows programs or Unisight Softwares installation to open the Alarm Event Proxy control panel.

![Alarm Event Proxy control panel](image)

Click the button **Start** to start up the Alarm Event Proxy service. Wait for a moment to initialization completed.

![Alarm Event Proxy setup](image)

Click the button **Setup>>** to open the Device Select dialogue box.

*Note: When you tick the check box **Autorun when OS Startup**, the Service will auto run after OS startup.*

Configuration

The Device Select is used to select and set the alarm device linked with the alarm event proxy server.

![Device Select](image)

Select the supported type from the Device Type drop down. Input the amount of sensor and alarm-out. Configure the COM port and other some parameters according to the instruction offered by the hardware manufacturer.

Click the button **User Admin>>** to open the local user manager. You can create and manage the users for local operations.
IP Device Alarm Proxy

An application capable of running in background is used to receive and monitor information and status from the edge network alarm device.

Running

Run `IPAlarmGateway.exe` from the folder of Windows programs or Unisight Softwares installation to open the IP Device Alarm Proxy window.

Configuration

Configure the network communication environment of the proxy server, and add and set the edge IP device.

System Setup

Input the listen port used by the proxy server, and verify if auto starting the program when OS startup or not. The Device Listen Port list shows all supported IP devices with the basic parameters. Click the button **Data Center Setup>>** to open the Data Center Setup dialogue box. You can input the connection information of data center which is used to send and archive the alarm logs to.
Alarm Site Setup

Select the supported type and model name from the Device Type and Model drop down. Input the device name, ID, IP address, port, username, and password. According to your need, input and apply the amount of analog or digital input. The input information would be shown in the below field.

**Note:** If you modified or deleted some items, you could click the button Reindex to refresh the index info of items.

Operations

If you did correct configuration in the previous steps, you would view the device listed out in the left tree and the related inputs shown in the right field.
Refresh
Used to click to refresh the status information from the edge IP devices

Send CMD
Used to send and execute some remote commands to IP devices. To the different device, there's would the individual command control panel.

User Admin
Used to create and manage the local users who have the different authorities to operate the application.

E-map
Used to offer an integrated E-map system service, which includes creation, management, and control etc. Build the Google map inside and support user-defined map integration.

Running
Run MapServer.exe from the folder of Windows programs or Unisight Softwares installation to open the E-map Data Server control panel.

Click the button Start to start up the E-map server. Wait for a moment to initialization completed.

Click the button Setup>> to the next step.
Note: When Enable Web Service ticked, Apache service would be activated and enable the web service of E-map Data Server. When you tick the check box Autorun when OS Startup, E-map Server will automatically run after OS startup.
Configuration

Enter to the E-map Server Setup page after clicking the button Setup>>, that offers all settings about the E-map Server.

Parameter Settings

Set E-map server image archiving path.

User Manager

Manage the user accounts to advanced unit server.

System Information

Inspect the information about hardware and environment of advanced unit server.

System Logs

Search and print system log information on advanced unit server by time/date and type.

Device Status

Monitor real-time system information, such as CPU, memory, hard drive and network flux usages etc., as well remotely shut down/start up the server.

Update

Update all settings of E-map data server.