huperReporter

Quick Guide

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Chapter 1 Introduction

huperReporter is an easy-to-use analyzer tool of video analytics. It generates analytical reports from the counting database of huperLab video analytics on a day, week or month basis. The analytical reports can be presented in line charts, bar charts and tables. Users can print and save chart figures, or export tables to CSV files for further analysis.

The following highlights the major features.

- Query counting database of video analytics from multiple remote/local Site Servers, and generate analytical reports on a day, week or month basis.
- Consolidate the counting data base and present the analysis in different chart formats, including line charts, bar charts and tables
- Export analytical data in CSV format file for further analysis
- Print and save line/bar chart figures

Notes:
- huperLab's Counter products includes 2D People Counter, 3D Stereo People Counter, Access Counter, Occupancy Counter, Flow Counting, Traffic Counter and Queue Length Management.
- huperReporter works with huperVision v.1.56 and later versions.

Installation

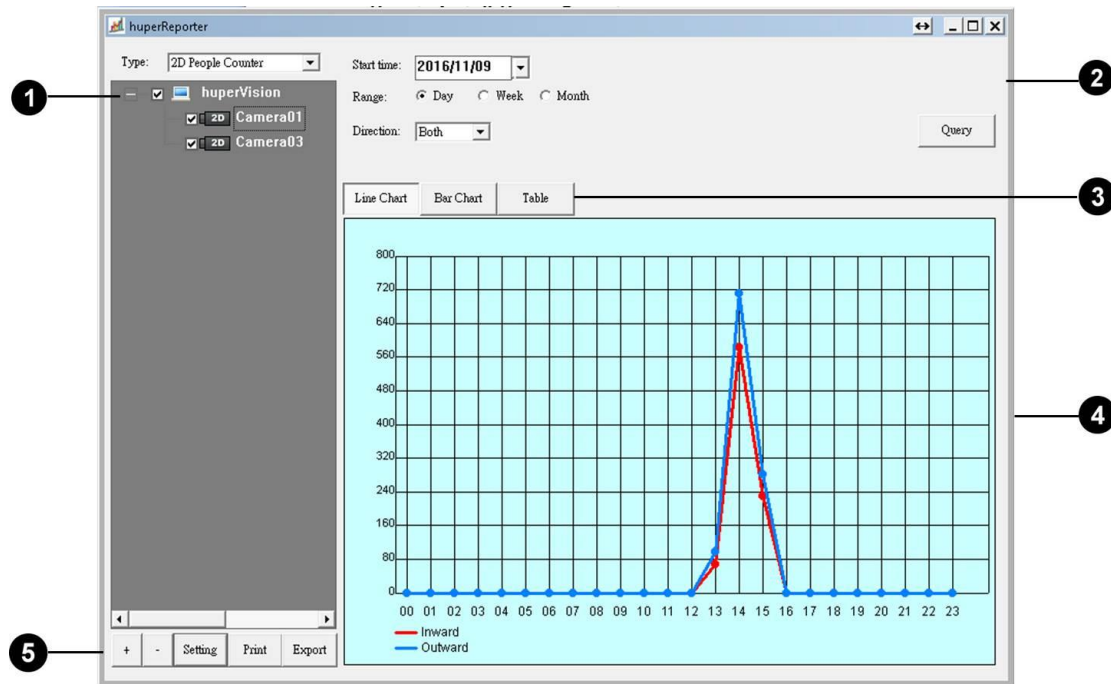Step 1 : Get the latest version of huperReporter on our website

Step 2 : Close the site server first if you choose to install huperReporter in the same computer.

Step 3 : Restart the site server after huperReporter is installed and connected in a network environment.

Notes:

- Please set up port forwarding as port 700 on site server if site server and huperReporter are connected in different network environment.

Chapter 2 User Interface

The main user interface components of huperReporter program are described below:

❶ Site List   List of all connected Site Servers, including Site Servers at the local machine and other machines.

❷ Query Criteria   The query criteria for collecting the counting database of video analytics. These criteria include,

Criterion	Description
Start Time	Specify the time period of counting database for analyzing.
Range	Day, week, or month basis.
Direction	Inward, outward, bi-direction, etc.

❸ Display Type   There are 3 display types that can be switched in between. They are line charts, bar charts and tables.

4 Query Result   Display the query result according to the query
criteria and the display type.
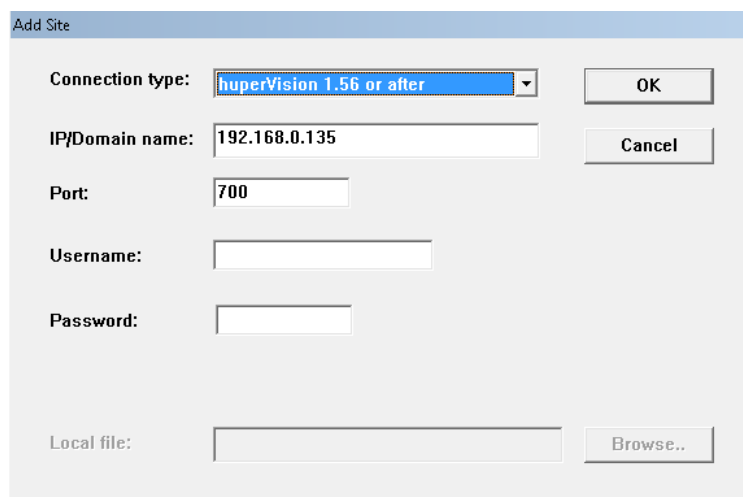
5 Function Buttons   Additional functions, including

Button	Description
+	Add a new Site Server to the list.
-	Remove a Site Server from the list.
Settings	Open the **Preference** dialog box.
Print	Print chart figures.
Export	Export chart figures or save analytical tables to CSV files.

Chapter 3 Using huperReporter

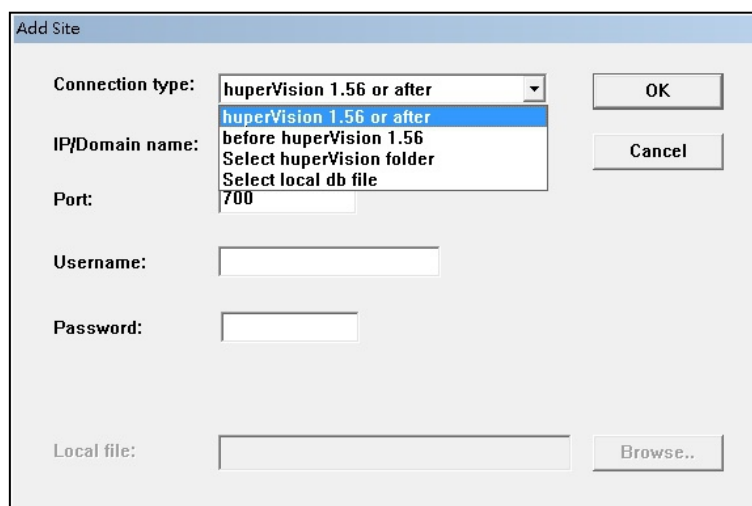## 3.1 Add Site Servers

Follow the steps below to add Site Servers:

1. Click the [+] button at the bottom of site list to open the "**Add Site**" dialog box.

2. Select the connection type in "**Add Site**" dialog box.

There are 4 connection types.

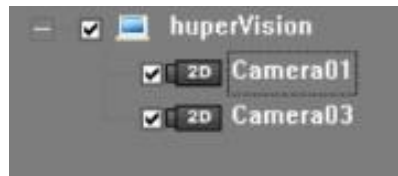| Type	Description
huperVision 1.56 or after	If a Site Server is at other machine. Enter the IP address
Before huperVision 1.56	and port number (700 as the default) of Site Server. **Note:** The port should be open at the Router in the LAN where the Site Server is running.
Select huperVision folder	The Site Server is at local machine. Select the program folder of huperVision. For example, "C:\huperlab\huperVision".
Select local db file	Select a database file (*.db) of video analytics. For example, "c:\huperlab\huperVision\PeopleCounterData\PeopleCounter.db".

Notes:

- Please make sure the site server is on when using huperReporter to access the database
- The huperReporter access authority is based on the account and privilege settings in site server. For setting details, please refer to the huperVision user manual.
- huperReporter works with huperVision v.1.56 and later versions.

3.2 Manage Site List
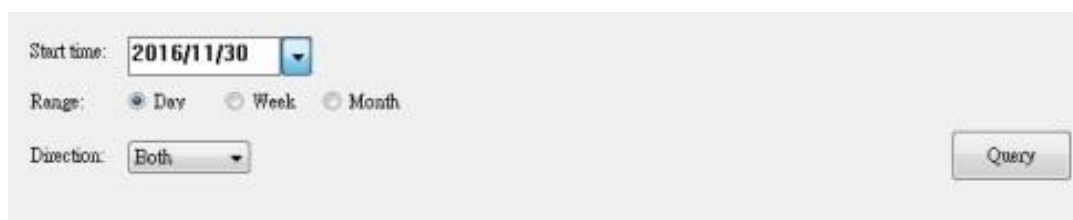
The operations to manage sites and cameras are list below.

Add a Site Server | Click [+] button to add a Site Server or open a db file.

Remove a Site Server | Click [-] button to remove the selected Site Server, or right-click on a Site Server on the list to show pop-up menu, select "**Delete**" menu item to remove it

Rename site/camera | Right-click a site/camera icon and select "**Rename**" menu item from the pop-up menu to rename it. The rename action is applied on the huperReporter only

Select/unselect camera(s) | Press "+" icon beside a Site Server to show its cameras that have applied the specified types of video analytics. Click the checkbox beside a Site Server to select all its cameras. Click the checkbox beside a camera to select the camera. Click the checkbox again to unselect it.

3.3 Specify Query Criteria

Before querying counting result, you need to select a set of cameras in the Site List. Only the counting data of the selected cameras will be collected and analyzed.

The query criteria are described as below.

Start Time	Specify the start date. Click the arrow button to open calendar to select a date.
Range	Specify the time period: Day, Week or Month.
Direction	Select the flow direction: Inward, Outward, Both Inward & Outward, or others.
Query	Click the "**Query**" button to start query and collect counting data from the selected cameras.
	Note: It will generate line chart, bar chart & table at the same time when you press the Query button.

The query criteria for 3D cameras support an additional "Height" criterion.

Height   Specify the height filter.

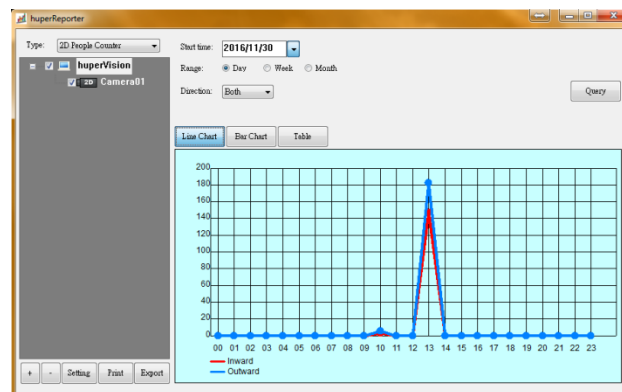| Filter Type	Description
None	No height filter
Between	Enter the low & high height to analyze counts in the height range.
Larger than	Enter the low height to analyze counts with higher height.
Smaller than	Enter the high height to analyze counts in lower height.

Unit   Specify the height unit, **cm** or **inches**.

3.4 View Query Result

Queried result will be displayed on the **Query Result** Area. Click the tabs of "**Line Chart**", "**Bar Chart**" and "**Table**" to switch between different display formats. Three types of display formats are:
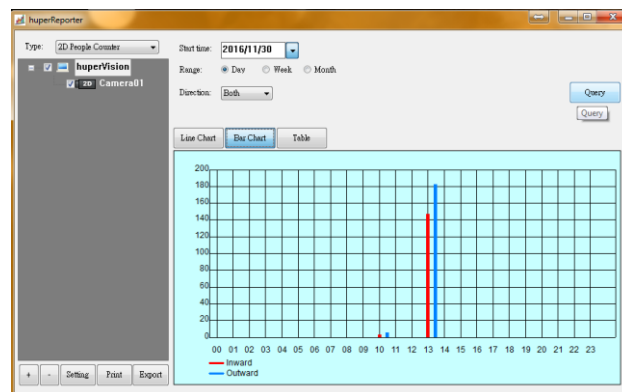
Line Chart   Display line graphs of queried result.
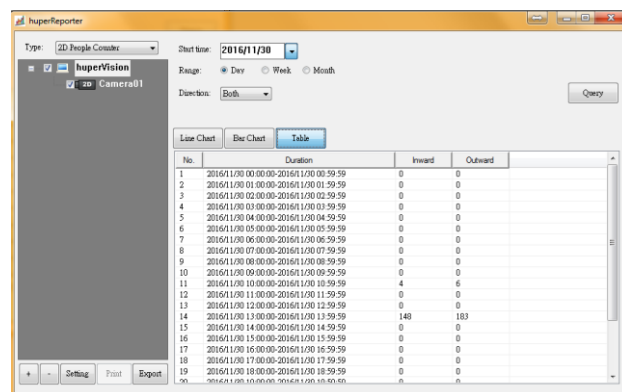

Bar Chart   Display bar graphs of queried result.

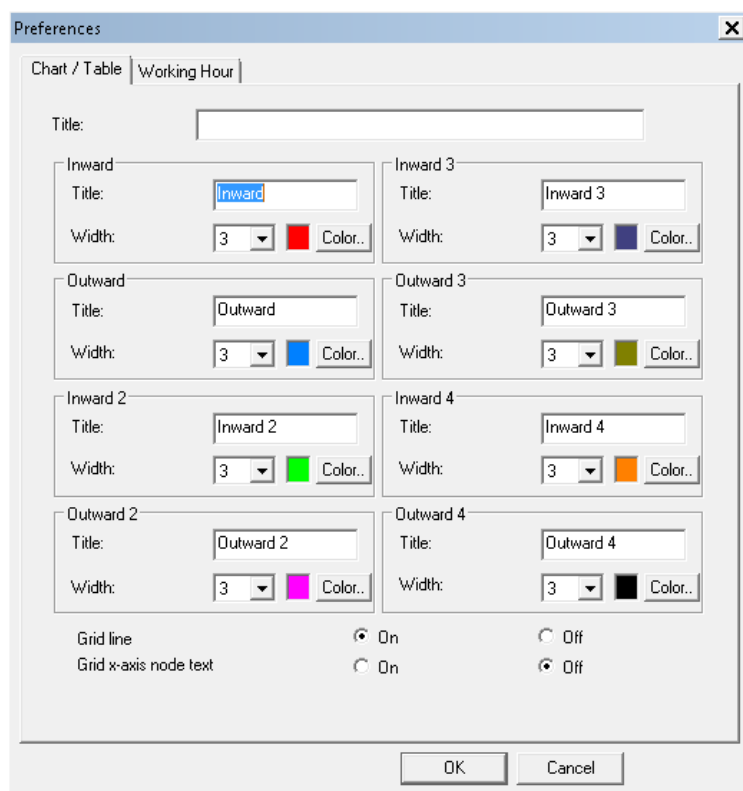

Table   Display data table of queried result.

Chapter 4 Configuring huperReporter

Click the "**Settings**" button to open the "**Preferences**" dialog box to customize the settings of huperReporter.
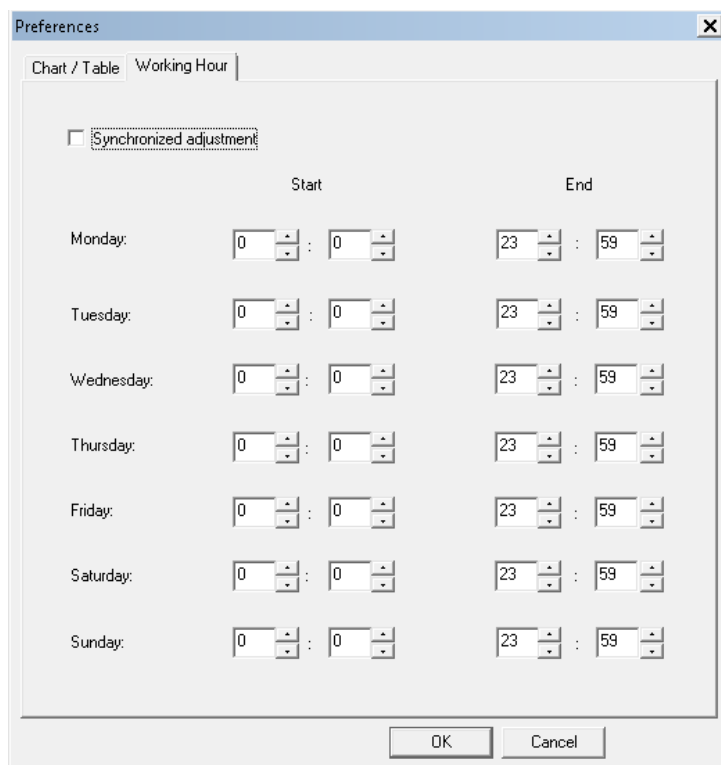
4.1 Configuring Chart/Table Display

Click the "**Chart/Table**" tab to show the settings of line chart. The settings are listed below.

Item	Description
Chart/Table Title	The title of line chart.
Inward x	Specify line name, width and color for in-flow count.
Outward x	Specify line name, width and color for out-flow count.
Grid line	Display grid line on line chart.
Grid x-axis node text	Display x-axis node text on line chart.

4.2 Configuring Working Hour

Click the "Working hour" tab to show the settings of working hours. The settings are list below.

Item	Description
Synchronized adjust	Check the option to apply Monday's working hours to other days (from Tuesday to Sunday).
Working hour range	Specify the working hours from "**Start**" time to "**End**" time.

Notes:
- The Working hour defines the counter data within the time range to be exported. So the counter data generated out of the time range will be hidden.

4.4 Exporting & Printing

Click the "**Print**" button to output the present Line Chart or Bar Chart to printer.
Click the "**Export**" button to save the present Line Char or Bar Chart to a
*.BMP file.