

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

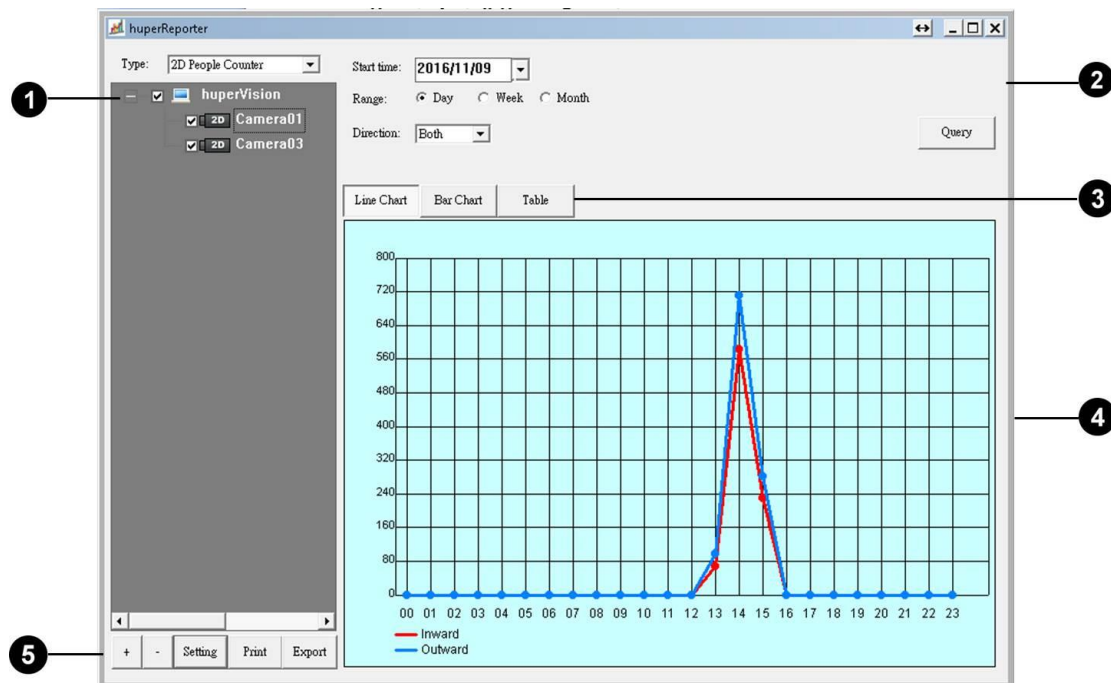
Step 2 : Close the site server first if you choose to install huperReporter in the same computer.

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:

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

2 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.

3 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

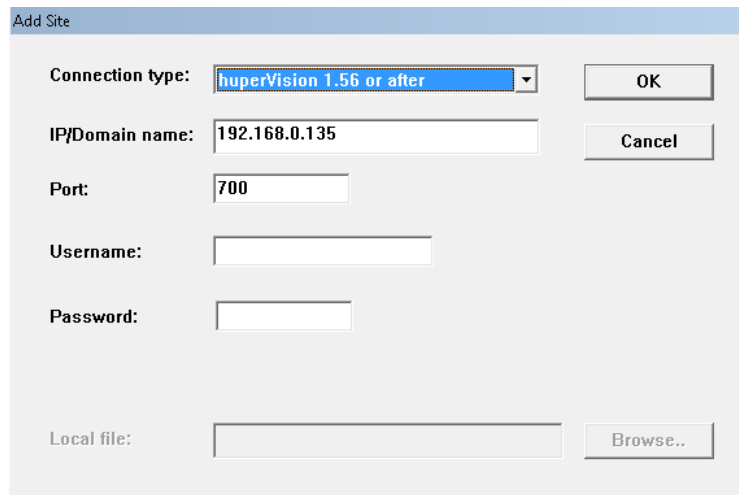
Button	Description
+	Add a new Site Server to the list.
-	Remove a Site Server from the list.
Settings	Open the Preference dialog box.
Print	Print chart figures.
Export	Export chart figures or save analytical tables to CSV files.

Chapter 3 Using huperReporter

3.1 Add Site Servers

Follow the steps below to add Site Servers:

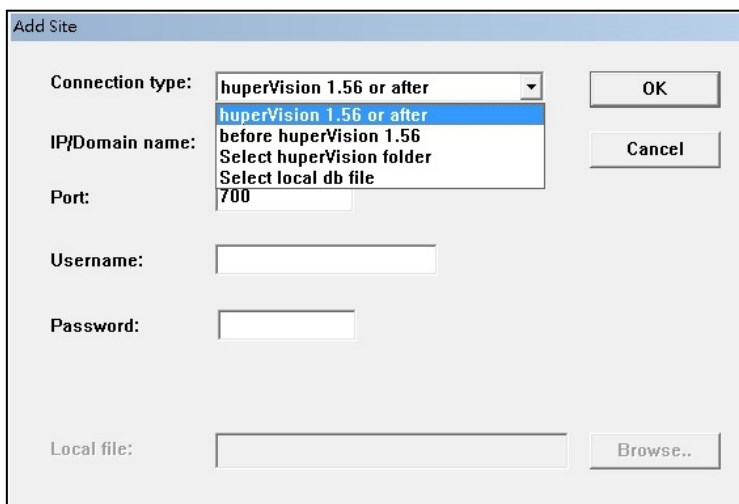
1. Click the  button at the bottom of site list to open the “**Add Site**” dialog box.



The screenshot shows the 'Add Site' dialog box with the following fields and values:

- Connection type: **huperVision 1.56 or after** (dropdown menu)
- IP/Domain name: 192.168.0.135
- Port: 700
- Username: (empty text box)
- Password: (empty text box)
- Local file: (empty text box) with a 'Browse..' button
- Buttons: OK, Cancel

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



The screenshot shows the 'Add Site' dialog box with the 'Connection type' dropdown menu open. The menu options are:

- huperVision 1.56 or after (highlighted)
- before huperVision 1.56
- Select huperVision folder
- Select local db file

The other fields and buttons are the same as in the previous screenshot.

There are 4 connection types.

<i>Type</i>	<i>Description</i>
huperVision 1.56 or after	If a Site Server is at other machine. Enter the IP address 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.
Before huperVision 1.56	
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".

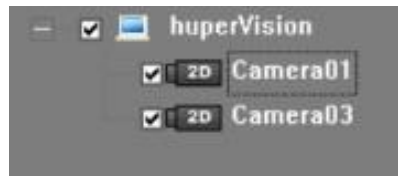
Notes:

- 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.

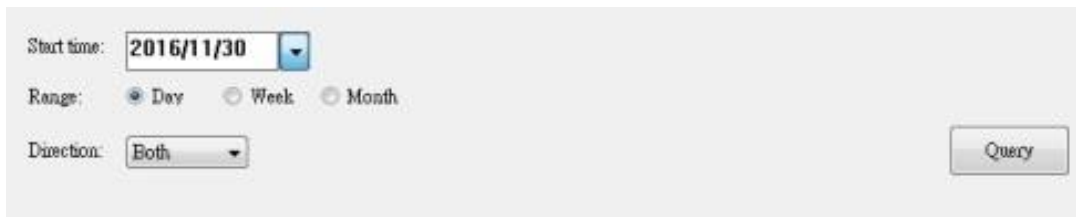
- | | |
|---------------------------|--|
| Add a Site Server | Click <input type="checkbox"/> button to add a Site Server or open a db file. |
| Remove a Site Server | Click <input type="checkbox"/> button to remove the selected Site Server, or right-click on a Site Server on the list to show pop-up 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.

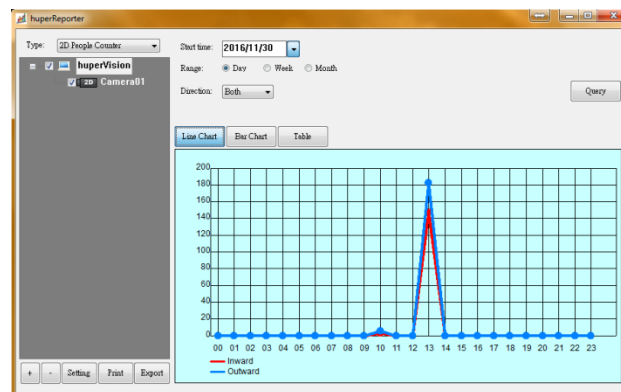
Unit Specify the height unit, **cm** or **inches**.

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:

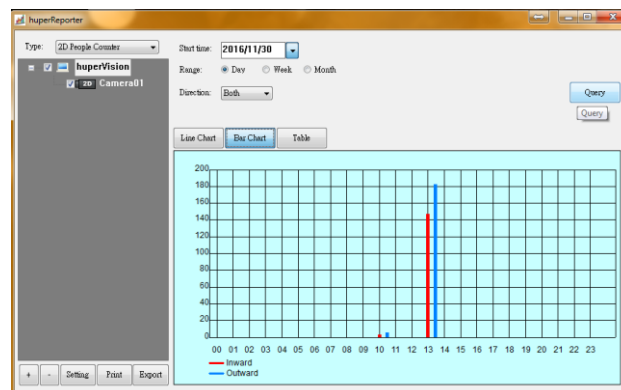
Line Chart

Display line graphs of queried result.



Bar Chart

Display bar graphs of queried result.



Table

Display data table of queried result.

The screenshot shows the huperReporter interface with the 'Table' tab selected. The table displays the queried data in a structured format. The columns are 'No.', 'Duration', 'Inward', and 'Outward'. The data shows a significant peak at 13:00.

No.	Duration	Inward	Outward
1	2016/11/30 00:00:00-2016/11/30 00:59:59	0	0
2	2016/11/30 01:00:00-2016/11/30 01:59:59	0	0
3	2016/11/30 02:00:00-2016/11/30 02:59:59	0	0
4	2016/11/30 03:00:00-2016/11/30 03:59:59	0	0
5	2016/11/30 04:00:00-2016/11/30 04:59:59	0	0
6	2016/11/30 05:00:00-2016/11/30 05:59:59	0	0
7	2016/11/30 06:00:00-2016/11/30 06:59:59	0	0
8	2016/11/30 07:00:00-2016/11/30 07:59:59	0	0
9	2016/11/30 08:00:00-2016/11/30 08:59:59	0	0
10	2016/11/30 09:00:00-2016/11/30 09:59:59	0	0
11	2016/11/30 10:00:00-2016/11/30 10:59:59	4	6
12	2016/11/30 11:00:00-2016/11/30 11:59:59	0	0
13	2016/11/30 12:00:00-2016/11/30 12:59:59	0	0
14	2016/11/30 13:00:00-2016/11/30 13:59:59	148	183
15	2016/11/30 14:00:00-2016/11/30 14:59:59	0	0
16	2016/11/30 15:00:00-2016/11/30 15:59:59	0	0
17	2016/11/30 16:00:00-2016/11/30 16:59:59	0	0
18	2016/11/30 17:00:00-2016/11/30 17:59:59	0	0
19	2016/11/30 18:00:00-2016/11/30 18:59:59	0	0
20	2016/11/30 19:00:00-2016/11/30 19:59:59	0	0

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

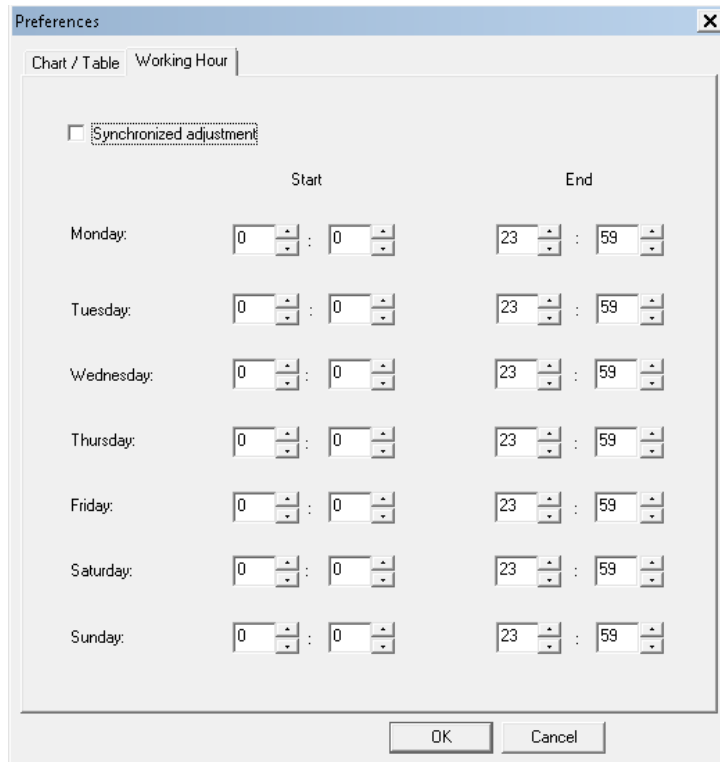
Click the “**Chart/Table**” tab to show the settings of line chart. The settings are listed below.



<i>Item</i>	<i>Description</i>
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.



	Start		End	
Monday:	0	0	23	59
Tuesday:	0	0	23	59
Wednesday:	0	0	23	59
Thursday:	0	0	23	59
Friday:	0	0	23	59
Saturday:	0	0	23	59
Sunday:	0	0	23	59

<i>Item</i>	<i>Description</i>
<i>Synchronized adjust</i>	Check the option to apply Monday’s working hours to other days (from Tuesday to Sunday).
<i>Working hour range</i>	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.