Siselectron TECHNOLOGY

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SCO4123

Full HD Ultra WDR Speed Dome IP Camera

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1. Overview

The Full HD Ultra-WDR Speed Dome IP Camera transmits digital video and audio data using wire connection. Live video can be monitored and recorded from windows-based computer via network.

The video encoder supports Real-time H.264 Full HD resolution. Simultaneous Quad Codecs, H.264 Baseline / Main / High Profile, MJPEG, are available for various network applications via speeding or limited bandwidth. Better image quality and high resolution are delivered by IP support. It eliminates the "combing" effect due to scene change and performs more stabilized image.

With IP solution, multiple and authorized users can view the immediate image from any location through network even using a standard web browser. It enables users to access and remote the camera without at specific locations.

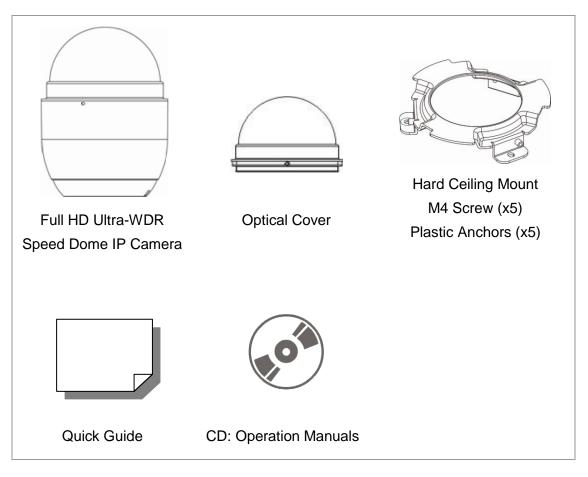
1.1 Features

- Sony Progressive Scan CMOS Sensor
- 18x / 20x / 30x Optical Zoom
- 12x Digital Zoom
- Dual-Shutter Wide Dynamic Range (>96dB)
- Supreme Frame Rate Support
- 1080P @ 60 fps + SXGA @ 60 fps
- Quad Stream Support
- Quad Codec: H.264 Baseline / Main / High Profile + MJEPG
- 2D/3D Noise Reduction
- 802.3 at 60W PoE + Support for Heater Activation
- IP66 International (Outdoor Models Only)

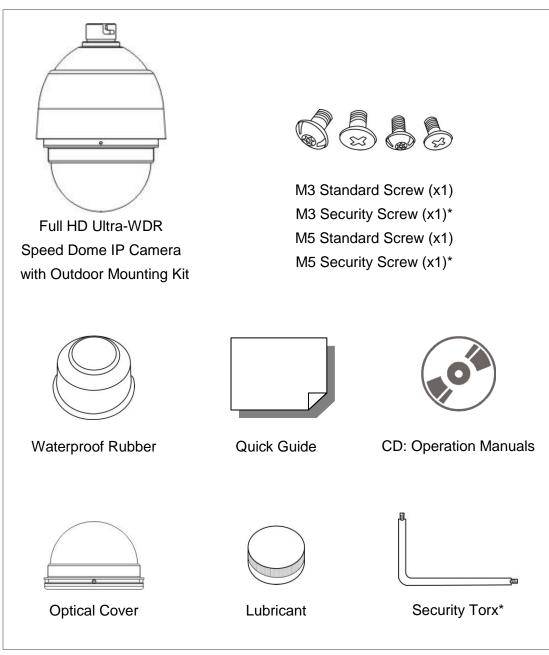
1.2 Package Contents

Please check the box contains the items listed here. If any item is missing or has defects, DO NOT install or operate the product and contact the dealer for assistance.

<u>Indoor</u>



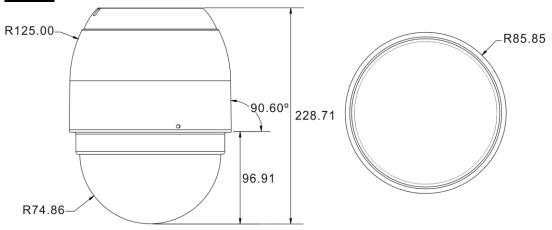
<u>Outdoor</u>



*For vandal proof cover only.

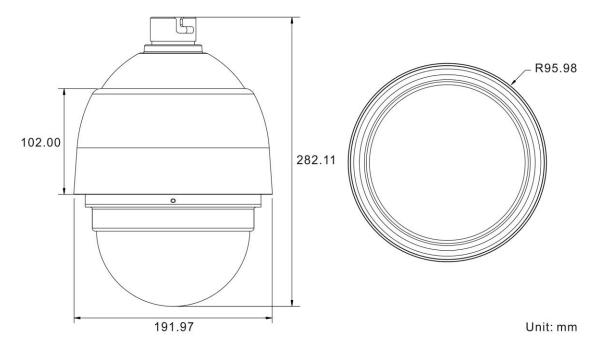
1.3 Dimensions





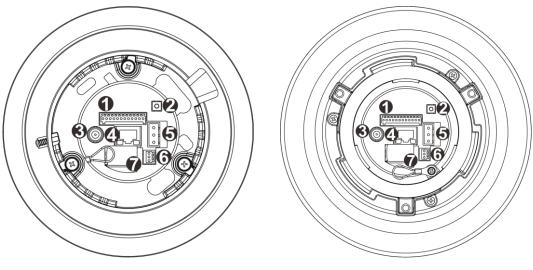
Unit:mm

<u>Outdoor</u>



1.4 Connectors

Refer to the diagrams below for the positions of the default button and various connectors of the camera. Definition of the default button and the connectors are given as follow.



Indoor

Outdoor

Pin	Connector	Definition
1	Alarm I/O	Alarm I/O connection
2	Default Button	Press the button with one figure for at least 20 seconds to restore the system.
3	BNC	For analog video connection
4	RJ-45	For network and PoE+ connections
5	Power (AC 24V)	Power connection
6	Audio I/O	Audio I/O connection
7	microSD Card Slot	Insert the microSD card into the card slot to store videos and snapshots. Do not remove the microSD card when the camera is powered on.



NOTE: It is not recommended to record with the microSD card for 24/7 continuously, as it may not be able to support long term continuous data read/write. Please contact the manufacturer of the microSD card for information regarding reliability and life expectancy.

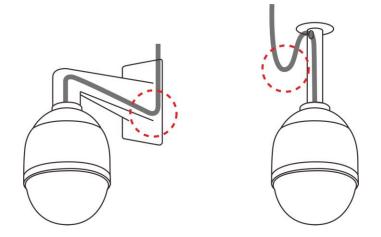
2. Camera Cabling

For indoor models, please refer to the following sections to connect cables. For outdoor models, please read the notice below first, and then refer to the following sections for cable connections.

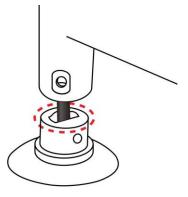
Notice for Outdoor Models

The outdoor models are being IP66-rated to prevent water from entering the camera. However, water might still enter the camera if it is being improperly installed. Please make sure the warnings below are strictly followed when installing the camera.

- Place all cables and the adaptor in dry and well-waterproofed environments, e.g. waterproof boxes. The purpose is to prevent moisture accumulation inside the camera and moisture penetration into cables.
- While running cables, slightly bend the cables to a U-shaped curve to make a low point (as demonstrated in the figures below). The purpose is to prevent water from entering the camera along the cables from above.



• The cable entry hole of the outdoor mounting kit (indicated in the figure below) needs to be sealed to avoid water from entering the camera.



2.1 **Power Connection**

To power up the camera, connect the AC 24V power adaptor to the power connector of the camera and the power outlet. Please refer to the diagram and the pin definition table below for connection. Alternatively, users can use High Power over Ethernet (PoE+) to power up the camera if an IEEE 802.3at 60W PoE+ switch is available. Refer to the section below for Ethernet cable connection.

	Pin	Definition
	1	AC 24V 1
	2	GND
- 3	3	AC 24V 2

2.2 Ethernet Cable Connection

To have best transmission quality, cable length shall not exceed 100 meters. Connect one end of the Ethernet cable to the RJ-45 connector of the camera, and plug the other end of the cable to the network switch or PC.



NOTE: In some cases, Ethernet crossover cable might be needed when connecting the camera directly to the PC.

Check the status of the link indicator and activity indicator LEDs. If the LEDs are unlit, please check the LAN connection.



Green Link Light indicates good network connection. Orange Activity Light flashes for network activity indication.

2.3 Alarm I/O Connection

The camera supports 4 digital alarm inputs and 2 digital alarm outputs. Please refer to the diagram and the pin definition tables below for alarm I/O connection.

1	12
555555555555 0000000000000000000000000	00

Pin	Definition	Pin	Definition
1	Alarm Out NO 1	7	Alarm Out COM 2
2	Alarm Out NC 1	8	GND
3	Alarm Out COM 1	9	Alarm In 4
4	GND	10	Alarm In 3
5	Alarm Out NO 2	11	Alarm In 2
6	Alarm Out NC 2	12	Alarm In 1

2.4 Audio I/O Connection

Please refer to the diagram and the pin definition table below for audio I/O connection.



3. System Requirements

To perform the camera via web browser, please ensure the PC is in good network connection, and meet the system requirement as described below.

Items	Minimum Requirement
	1. Intel® Pentium® IV, 3 GHz or higher, Intel® Core2 Duo,
Barconal Computer	2 GHz or higher
Personal Computer	2. 1 GB RAM or more
	3. AGP graphics card 64 MB RAM, DirectDraw
Operating System	Windows VISTA / Windows XP / Windows 7
Web Browser	Internet Explorer 6.0 or later, Firefox, Chrome, Safari
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE

4. Access Camera

For initial access to the camera, users can search the camera through the installer program: DeviceSearch.exe, which can be found in "Device Search" folder in the supplied CD.

Accessing the Camera by Device Search Software

Step 1: Double click on the program Device Search.exe.

- **Step 2:** After its window appears, click on the <Device Search> button on the top. All the finding IP devices will be listed in the page.
- **Step 3:** Find the camera in the list by its IP address and click on it. The default IP address of the camera is: **192.168.0.250**.
- Step 4: The default IP address of the camera may not be in the same LAN as the IP address of the PC. If so, the IP address of the camera needs to be changed. Right click on the camera and click <Network Setup>. Meanwhile, record the MAC address of the camera, for future identification.
- Step 5: The <Network Setup> page will come out. Select <DHCP> and click <Apply> down the page. The camera will be assigned with a new IP address.
- **Step 6:** Click <OK> on the Note of setting change. Wait for one minute to re-search the camera.
- Step 7: Click on the <Device Search> button to re-search all the devices. Find the camera in the list by its MAC address. Then double click or right click and select <Browse> to access the camera directly via a web browser.

Step 8: A prompt window requesting for default username and password will appear. Enter the default username and password shown below to login to the camera.

Login ID	Password
Admin	1234



NOTE: ID and password are case sensitive.



NOTE: It is strongly advised that administrator's password be altered for the security concerns. Refer to the <u>Full HD Speed</u> <u>Dome IP Camera Menu Tree</u> in the supplied CD for further details.

Installing Viewer Software Online

For the initial access to the camera, a client program, Viewer, will be automatically installed to the PC when connecting to the camera.

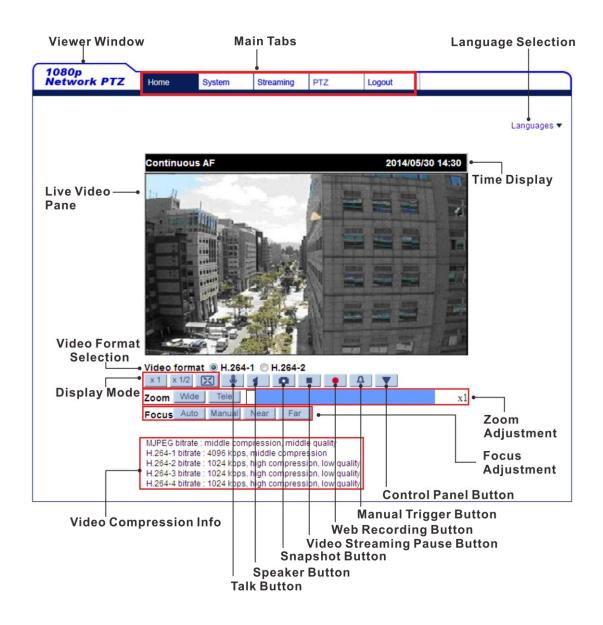
If the web browser doesn't allow Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to section <u>Setup</u> <u>Internet Security</u>) to continue the process.

The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in browser. Right click on the Information Bar and select <Install ActiveX Control...> to allow the installation. A security warning window will pop up. Click on <Install> to carry on software installation.

The download procedure of Viewer software is specified as follows.

- **Step 1:** In the Viewer installation window, click on <Next> to start the installation.
- **Step 2:** A status bar will be displayed to show the installation progress. After the installation is completed, click on <Finish> to exit the installation process.
- **Step 3:** Click on <Finish> to close the Viewer installation page.

Once the Viewer is successfully installed, the Home page of the camera will be shown as the figure below.



Zoom and Focus Adjustment

The live image will be displayed on the Home page when the camera is successfully accessed. If zoom or focus is not at the desired position, please use the function buttons on the Home page for adjustment. Refer to the <u>Full HD Speed Dome IP Camera Menu Tree</u> in the supplied CD for more details about the function buttons.

5. Setup Video Resolution

Users can setup video resolution on Video Format page of the user-friendly browser-based configuration interface.

Video Format can be found under this path: Streaming> Video Format.

1080p Network PTZ	Home System Streaming PTZ Logout
Video Format	Video Format
Video Compression	Video Resolution :
Video OCX Protocol	H.264 + H.264
Video Frame Rate	Format 1 : 1920 x 1080 (60 fps) ▼ H-264-1 ▼
Audio	Format 2 : 720 x 480 (60 fps) ▼ H-264-2 ▼ BNC support : Yes
	Save
	Note : Image attachment by FTP or E-mail will be available only while MJPEG streaming is selected. Text Overlay Settings : Include date Include time Include text string: Include subtitle: Save Video Rotate Type : Normal video Save GOV Settings : H.264-1 GOV Length : 60 H.264-2 GOV Length : 60 H.264-3 GOV Length : 30 H.264-4 GOV Length : 30 Save H.264 Profile : H.264-1 : Main profile H.264-2 : Main profile H.264-3 : Main profile H.264-4 : Main profile H.264-4 : Main profile Save

The default value of the video resolution is as below.

2M H.264 1920 x 1080 (60 fps) + H.264 720 x 480 (60 fps)

For more details about the combinations of video resolution, please refer to the <u>Full HD Speed Dome IP Camera Menu Tree</u> in the supplied CD.

6. Configuration Files Export / Import

To export / import configuration files, users can access the Maintenance page on the user-friendly browser-based configuration interface.

The Maintenance setting can be found under this path: **System> Maintenance**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the camera. It is especially convenient to make multiple cameras having the same configuration.

Export

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click on the <Export> button, and the popup File Download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

<u>Upload</u>

To upload a configuration file to the camera, click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.

7. Tech Support Information

This chapter will introduce how to delete previously-installed Viewer in the PC and how to setup the Internet security.

7.1 Delete the Existing Viewer

For users who have installed the Viewer in the PC previously, please remove the existing Viewer from the PC before accessing to the IP camera.

Deleting the Viewer

In the Windows <Start Menu>, activate <Control Panel>, and then double click on <Add or Remove Programs>. In the <Currently installed programs> list, select <Viewer> and click on the button <Remove> to uninstall the existing Viewer.

Deleting Temporary Internet Files

To improve browser performance, it is suggested to clean up all the files in the <Temporary Internet Files>. The procedure is as follows.

- Step 1: In the web browser, clicks on the <Tools> tab on the menu bar and select <Internet Options>.
- Step 2: Click on the <Delete> button under the <Browsing History> section.
- **Step 3:** In the appeared window, tick the box beside the <Temporary Internet Files> and click on <Delete> to start deleting the files.

7.2 Setup Internet Security

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

Internet Security Level: Default

- Step 1: Start the Internet Explorer (IE).
- Step 2: Click on the <Tools> tab on the menu bar and select <Internet Options>.
- **Step 3:** Click on the <Security> tab, and select <Internet> zone.
- **Step 4:** Down the page, click on the <Default Level> button and click on <OK> to confirm the setting. Close the browser window, and restart a new one later to access the IP camera.

ActiveX Controls and Plug-ins Settings

- Step 1: Repeat Step 1 to Step 3 of the previous section above.
- Step 2: Down the page, click on the <Custom Level> button to change ActiveX controls and plug-ins settings. The Security Settings window will pop up.
- Step 3: Under <ActiveX controls and plug-ins>, set ALL items (as listed below) to <Enable> or <Prompt>. Please note that the items vary by IE version.

ActiveX controls and plug-ins settings:

- 1. Binary and script behaviors.
- 2. Download signed ActiveX controls.
- 3. Download unsigned ActiveX controls.
- 4. Allow previously unused ActiveX controls to run without prompt.
- 5. Allow Scriptlets.
- 6. Automatic prompting for ActiveX controls.
- 7. Initialize and script ActiveX controls not marked as safe for scripting.
- 8. Run ActiveX controls and plug-ins.
- 9. Only allow approved domains to use ActiveX without prompt.
- 10. Script ActiveX controls marked safe for scripting*.
- 11. Display video and animation on a webpage that does not use external media player.
- Step 4: Click on <OK> to accept the settings. A prompt window will appear for confirming the setting changes, click <Yes(Y)> to close the Security Setting window.
- **Step 5:** Click on <OK> to close the Internet Options screen.
- Step 6: Close the browser window, and restart a new one later to access the IP camera.