CamPilot URH900A

Full HD 1ch. Network Video Server

User Manual

CamPilot URH900A

Before installing and using the product, please read this manual carefully.
Be sure to keep it handy for later reference.

The adaptor and LAN cable are sold separately.

Cellinx

Precaution

WARNING

**TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

Do not disassemble or modify the product
If the product is used in an arbitrary manner, it may cause damage to the product and its surrounding connections.

CAUTIONS

■ **Do not open or modify**
Do not open the case, as it may be dangerous and cause damages.

■ **Do not put objects inside the unit**
Make sure that no metal objects or flammable substances get inside the camera. It could cause fire, short-circuits or damages.

■ **Be careful when handling the unit.**
To prevent damage, do not drop the camera or subject it to strong shock or vibration.

■ **Install away from electric or magnetic fields.**

■ **Protect from humidity, dust and high temperature.**
An additional case that is temperature-controllable, damp-proof and waterproof is required for outdoor use.

■ **Cleaning**
Dirt can be removed from the case only by wiping it with a soft cloth moistened with a soft detergent solution.

■ **Mounting Surface**
The mounting surface material must be strong enough to support the product.

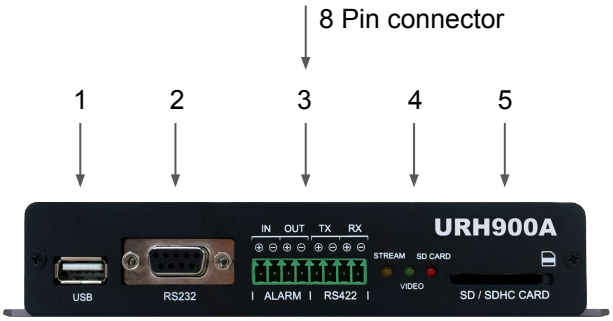
■ **CamPilot URH900A can be used for surveillance purpose.**
Be thoroughly informed of related regulations prior to installation to ensure compliance with such regulations.

Overview

Features

CamPilot URH900A is a **Network Video Server** that transmits real-time high-resolution digital video and audio data with H.265 / H.264 high compression rate over Internet or Intranet.

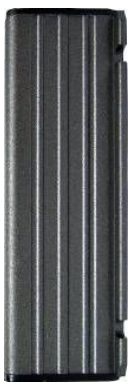
Appearance



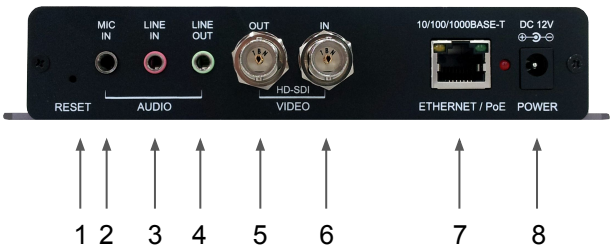
| Front

1. USB : Reserved
2. RS232
3. ALARM IN / OUT, RS422
4. LED (STREAM, VIDEO, SD CARD)
- STREAM (Yellow) : ON on the accessing status
- VIDEO (Green) : ON when the HD-SDI is inputted.
- SD (Red) : ON when the local storage is detected.
5. SD / SDHC CARD (slot)

| Top



| Side



| Rear

1. Reset (factory Default switch)
2. Audio – MIC IN (Ø3.5 stereo jack)
3. Audio – LINE IN (Ø3.5 stereo jack)
4. Audio – LINE OUT (Ø3.5 stereo jack)
5. Video output (HD-SDI, BNC connector)
6. Video input (HD-SDI, BNC connector)
7. Ethernet (10/100/1000 Base-T LAN)
8. Power (Ø5.5x2.1,12V 1A)

Specification

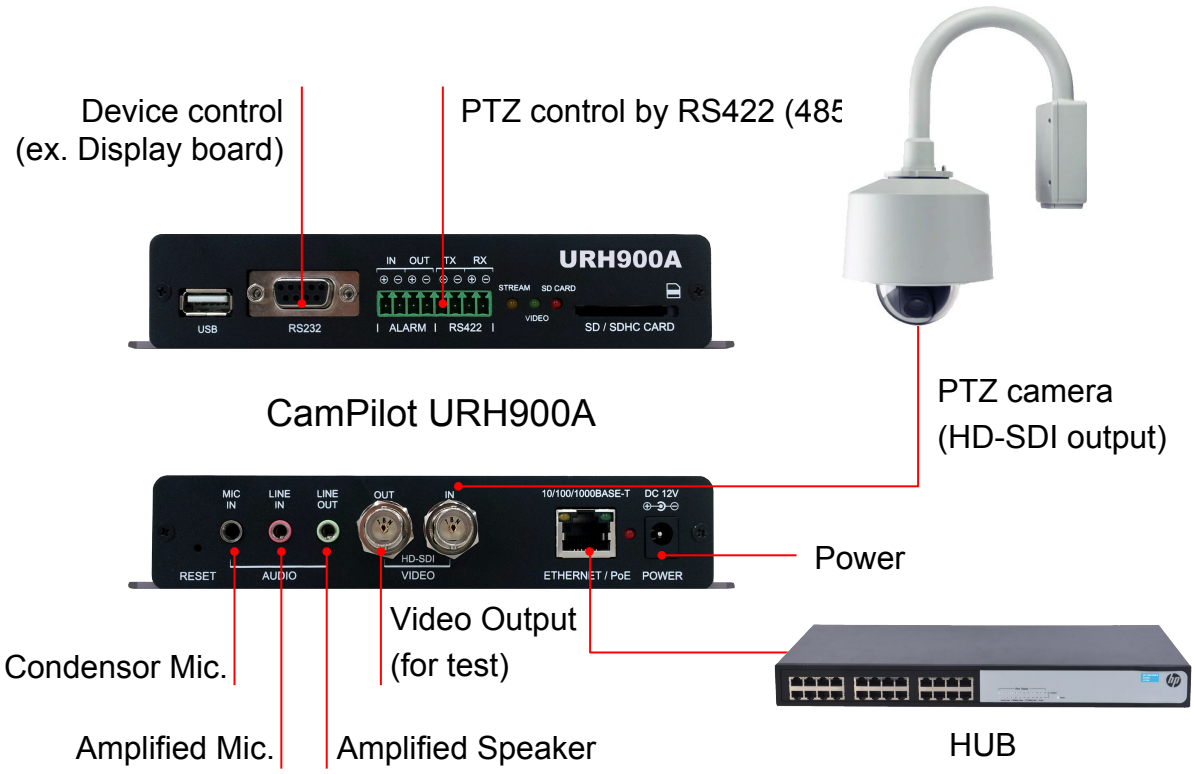
Items		Specifications
Video	Video Input	HD-SDI
	Compression Type	H.265, H.264, MJPEG
	Resolutions	1080p, 720p, D1 ~ QCIF
	Bitrate	32Kbps ~ 10Mbps
	Frame Rate	30 fps @ all resolutions
	Streaming	H.265 Dual Stream or Simultaneous H.265 / H.264 / MJPEG
	Output	HD-SDI repeated Video Out
Audio	Bi-Directional Audio	Two way, full duplex
	Audio Input Compression	G.711
	Audio Line Input	Line level input. Nominal 0-dB input level is 1.0 VRMS.
	Audio Output Compression	G.711
	Audio Line Output	Line level output. Nominal output level is 1.0 VRMS.
External I/O	Alarm Input (Digital Input)	1ch
	Alarm Output (Digital Output)	1ch
	Factory Default Button	Restore to default setting (Network, Password and etc.)
	RS422 (RS485)	1Ch. for External Device Control like a Serial Device (RS422-RS485 Auto-Sensing)
	RS232	RS232C Level
	SD Card	SD Card Interface Support
	USB Host	1 port, USB 2.0 Memory Stick
Network	Ethernet	Ethernet(10/100 Based-T), Auto MDI
	Protocol	TCP, UDP, IP, HTTP, DHCP, DNS, ICMP, ARP, IPv4 / IPv6, DDNS, NTP, SNMP, Syslog, UPnP, Bonjure, ZeroConf, RTP/RTSP, Onvif, Genetec Protocol
Software	Web Browser	IE 8.0 or above
	SDK	Cellinx SDK 4.0
	Security	MD5 Password / iptables (firewall) / SSL
Operating	Temperature	0°C ~ 40°C / 32°F ~ 104°F
Power	Power Requirement	DC 12V 1.0A / PoE (IEEE802.3af)
	Power Consumption	Max 8.0W
Physical	Dimensions	169(W) x 117(D) x 31(H) mm
	Weight / Material	400g / Aluminum

Basic connection

(1) POWER – DC 12V 1A
(2) ETHERNET - LAN cable (RJ45 jack), The opposite side is connected to the PC or network device like HUB.
(3) Video Input – video signal by HD-SDI output (coaxial cable, BNC jack)

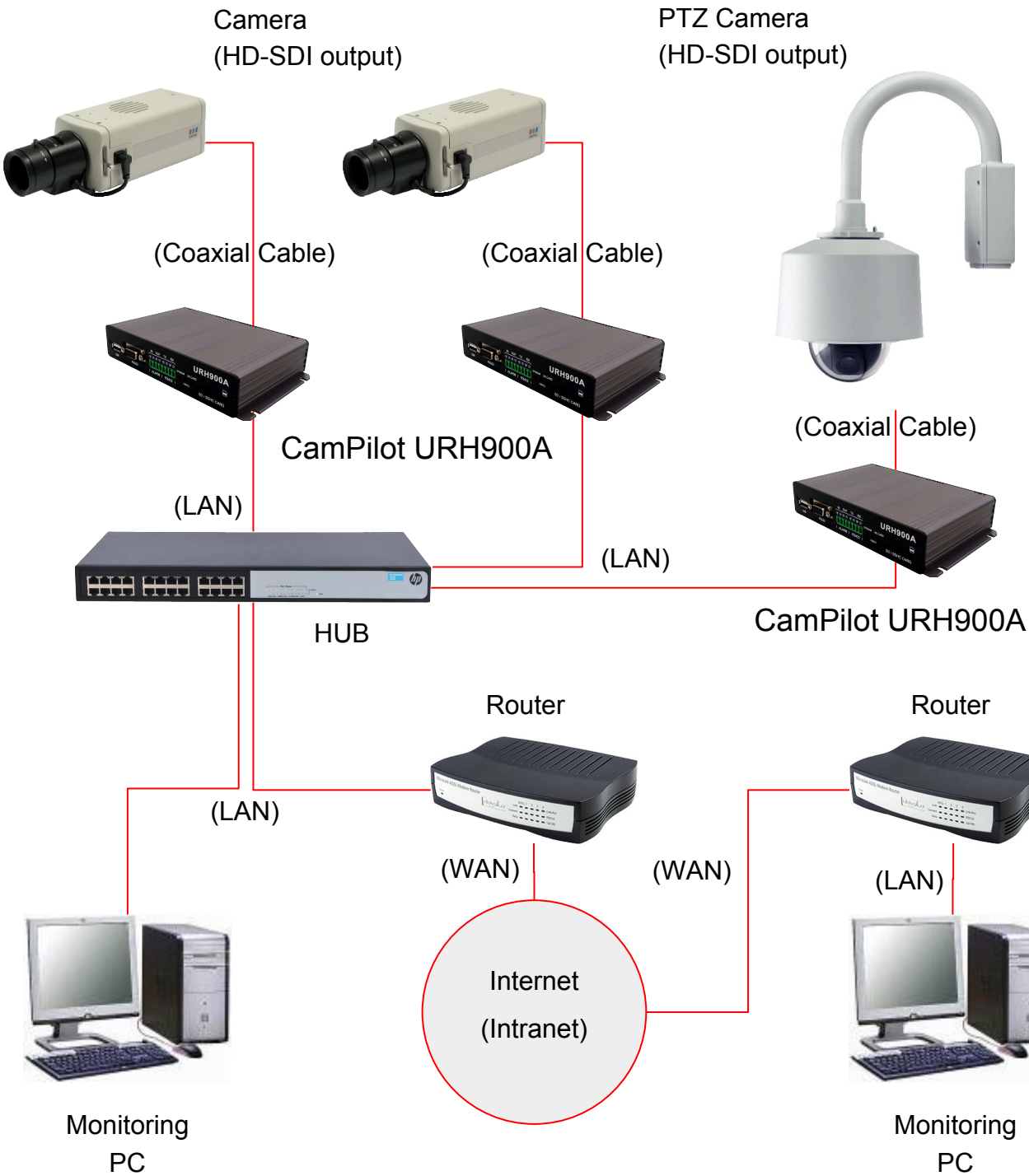
Expert connection

(1) RS232 : an external device control (ex. electronic display (board))
(2) Sensor (Alarm Input) : dry contact (N.O or N.C are available.)
(3) Alarm (Alarm Output) : relay switch (Nominal Voltage 5VDC, 1A)
(4) SD / SDHC card slot : 4GB~16GB SD / SDHC is available
(5) RS422 (RS485) : an external device control (PTZ driver ▸ TX + / - is used)
(6) MIC IN : microphone input
(7) LINE IN : Line Level input (Ø3.5 stereo jack, use amplified mic.)
(8) LINE OUT : Line Level ouput (Ø3.5 stereo jack, 8Ω)
(9) Video Output : for maintenance (BNC jack)



Peripheral Connection

Connection



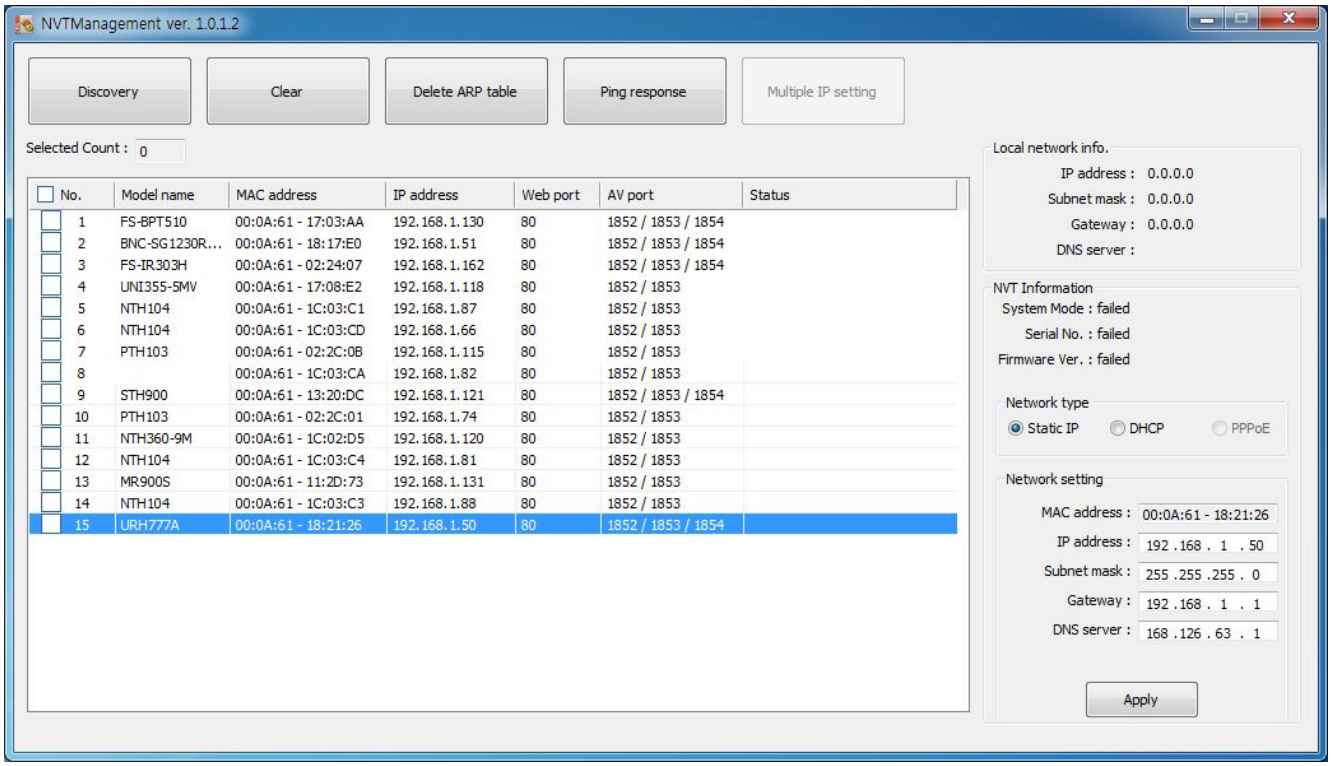
Network Connection Configuration Diagram

Setting an IP address

Change the network setting value with the program “NVTManagement”

1. NVTManagement execution

• Execute the file “NVTManagement.exe”



| NVTManagement

2. IP address set-up

• Click the button “**Discovery**”, select the model.
• Input the **IP address, Subnet Mask, Gateway** and **DNS Server IP address**, click the button “**Apply**”
• If you don’t have a proper IP address, ask the network administrator.

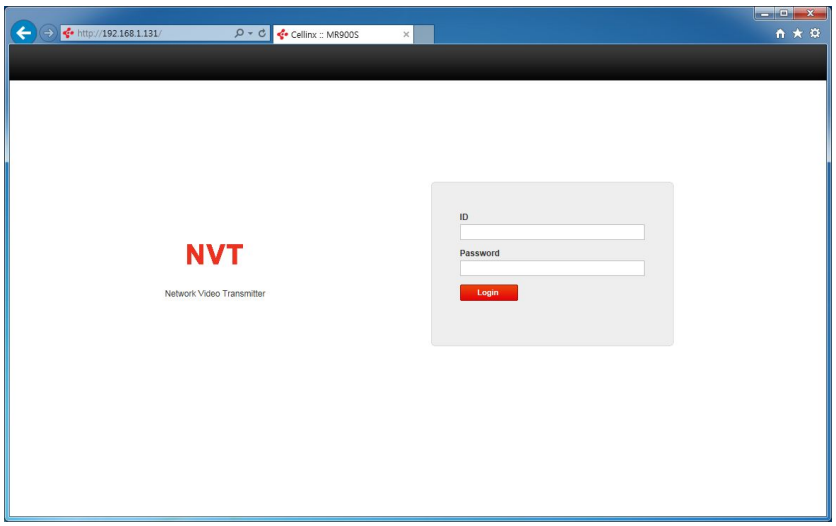
Network

3. Accessing to CamPilot URH900A with a web browser

• Open a web browser on a monitoring PC and enter the IP address assigned to a CamPilot URH900A as following

Example> http://192.168.1.2

• The page as below shows up after the connection is completed.

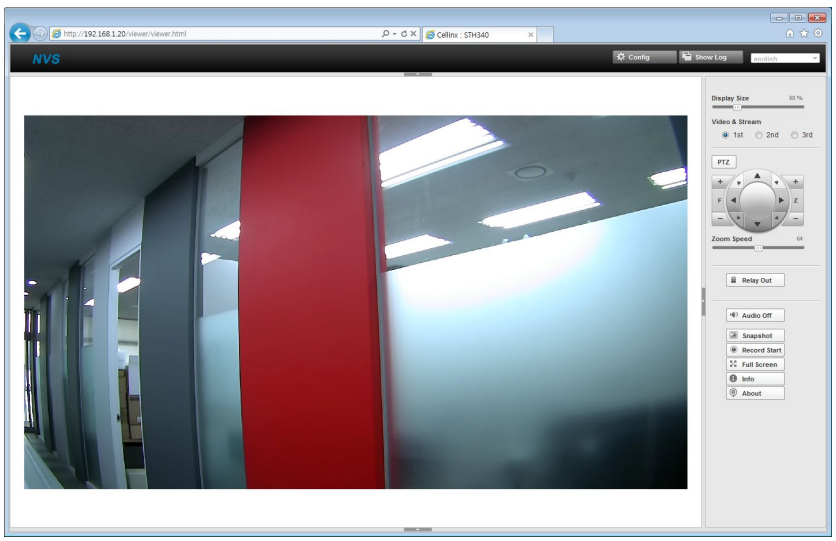


| Initial Access Page

ID / Password :
root / pass (Initial Value)

Login button :
it enables you to move to the Web Monitoring Page. On checking the Setting box and clicking the button, you can move to the Web Setting Page.

Guest Login :you can move to the Web Monitoring Page as “guest”



| Web Monitoring Page

Refer to the document “URH900A_Web_Manual.pdf” for the Web server.