

# CONSOLITECH



Network Video Box

**PTA-8950 (TV)**  
**PTA-8951 (AV)**

**PRODUCTS DATASHEET**

CONSOLITECH CORP.



## Revision History

Rev	Date	Description & Change Cause	Author
0.1	10-Dec-2007	Initial draft	<i>Eddie</i>
0.2-0.7			<i>Eddie</i>
0.8	9-JAN-2008	1.Change the project code from 8902 into 8950 2.Add S-video input and output 3.Power button & IR (TX) move to front panel 4.Add Wirelss Lan LED for 8950WL	<i>Elson</i>
0.9	13-JAN-2008	1. Modify system requirement. 2. SDRAM increases to 64MB. 3. Add IR-in LED indication. 4. Modify general application chart. 5. Add Spec item	<i>Elson</i>
0.91	14-FEB-2008	1. Tuner confirm that adopts TCL N+P can tuner 2. Replace 7131 with TW9910 and WM8731	<i>Elson</i>
0.92	18-FEB-2008	1.The power switch is made into the machinery type 2.Remove placement page	<i>Elson</i>
0.93	21-APR-2008	1. Adjust the power & LAN LED position each other. 2. Add Spec item 3. Add Box system requirements	<i>Elson</i>
1.0	23-JUN-2008	1.新增 8950AV model，並將原 8950 加入 TV 字區隔 2.新增 USB Host record 功能 3.變更後面板端子配置 4.調整 datasheet 版面	<i>Elson</i>

**Note:** 0.xx= Design stage / 1.xx = DVT stage / 2.xx = PVT stage / 3.xx = MP stage

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## 1. Introduction

**PTA-8950** is an IPTV Box receiving TV sources from Wall or Set-Top-Box via TV Tuner, RCA or S-Video on the one end, compressing the video in the format of H.264 & the audio in the format of AAC, and transmitting the compressed media to the internet or internet on the other end. With the application software installed on your computer, 3G mobile phone or Wi-Fi PDA, you could control the TV Tuner or Set-Top-Box via IR connection between IPTV Box & Set-Top-Box, and watch & record TV programs on the go..

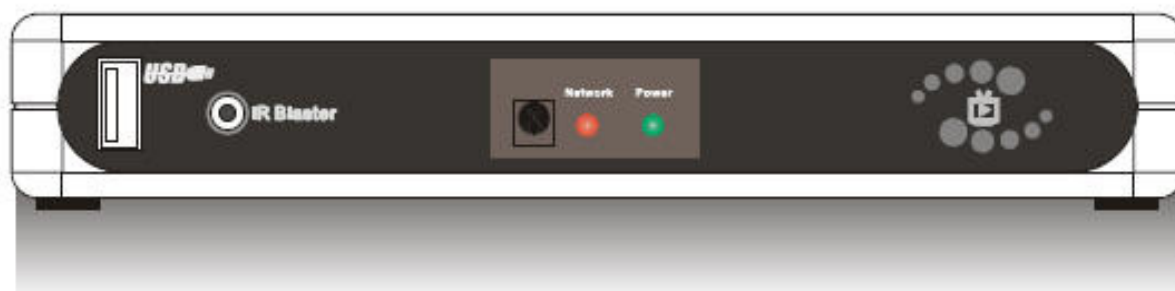
## 2. Features

- ▶ **No monthly fee. (All TV contents can be accessed.)**
- ▶ PTA-8950 using a high-performance H.264 video compression chipset, requires smaller bandwidth and implements better video quality.
- ▶ **Network video and security monitoring.**
- ▶ With the player installed on PC, 3G mobile phone or Wi-Fi PDA, the user could control the TV Tuner or Set-Top-Box via IR connection between IPTV Box & Set-Top-Box, and watch & record TV programs on the go (**Coming soon**).
- ▶ **D1/Half-D1/DCIF/CIF/QCIF Real Time Compression Supported.**
- ▶ Automatic adjustment of encoder parameters based on dynamic algorithm of the available network bandwidth ensures the smooth video stream transport on the network.
- ▶ **P2P service and UPnP compatibility make an easy network connection.**
- ▶ The IR Remote Control Learning function supports all types of A/V devices including PVRs, Digital Cable Boxes, and Satellite TV Receivers.
- ▶ **Scheduled or real-time recording on PC or Box (by USB port) supported.**
- ▶ TV sources can be received from Wall (Cable) via TV Tuner of this Network TV Box, or from Set-Top-Box via RCA or S-Video of this Network TV Box.
- ▶ **System Software Upgrade via Network supported.**
- ▶ NTSC and PAL standards auto detection supported.
- ▶ **External USB hard disk support.**
- ▶ **\*\*TV Tuner supports both PAL and NTSC TV standards.**

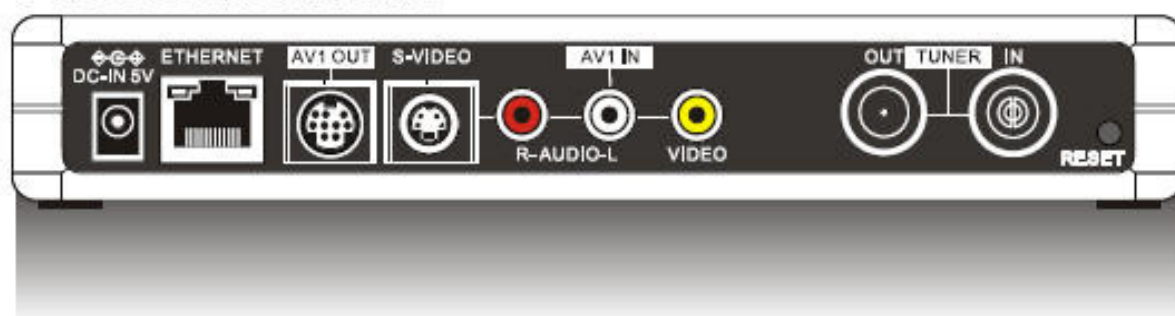
**\*\*For PTA-8950 only**

### 3. Placement and Diagram

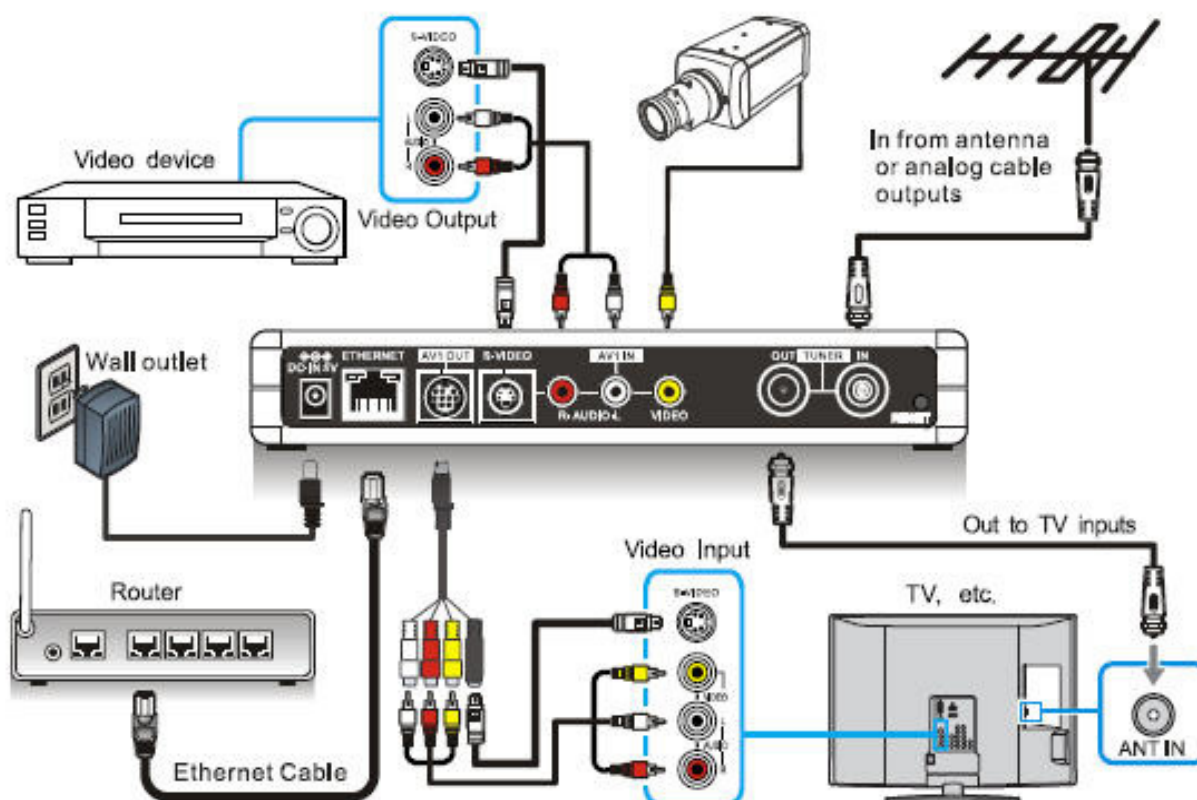
#### PTA-8950 Front Panel



#### PTA-8950 Rear Panel



#### PTA-8950 Connectivity Diagram





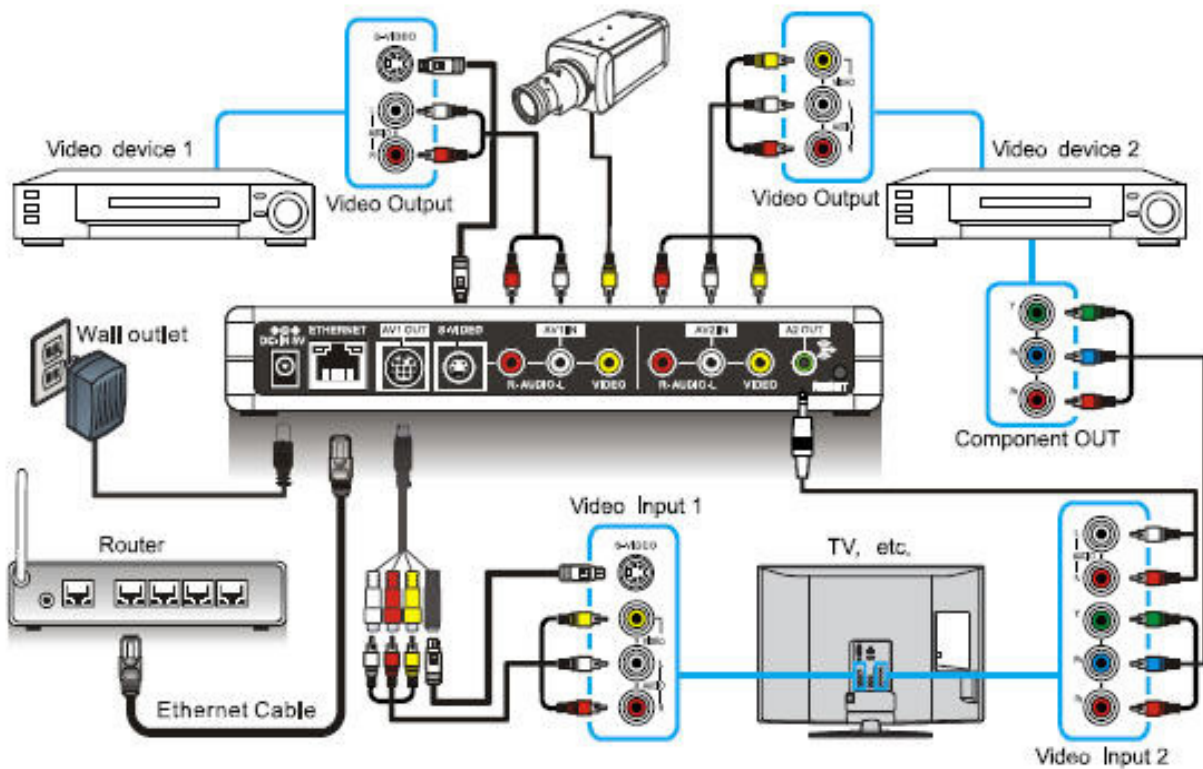
## PTA-8951ront Panel



## PTA-8951 Rear Panel



## PTA-8951 Connectivity Diagram



## 4. Specification

Functions		PTA-8950	PTA-8951
Hardware	Processor	Multi Core: ARM 9 CPU + DSP, 260Mhz	
	SDRAM	64MB	
	FLASH	16MB	
Connectors	TV Tuner	1x RF IN (IEC 169-2) 1x RF OUT (IEC 169-2)	None
	AV1 IN	1x RCA Composite Video 1x S-Video (mini-DIN) 1x RCA L/R audio	
	AV1 OUT	1x RCA Composite Video 1x S-Video (mini-DIN) 1x RCA L/R audio	
	AV2 IN	None	1x RCA Composite Video 1x RCA L/R audio
	A2 OUT	None	1x mini jack L/R audio
	DC IN	5V DC, 2A	
	IR BLASTER	1x mini Jack	
	USB	1x Type A, For use of external storage	
	Ethernet	10Base-T/100Base-TX Ethernet with RJ-45 interface	
LEDs	POWER (Green)	Status: On/ Off/ Blinking (for IR-in)	
	NETWORK (Red)	Status: On/ Off/ Blinking	
System	Video Compression	H.264 (Hardware Encode)	
	Video Resolution	D1, Half D1, DCIF, CIF, QSIF	
	Video Frame rate	Up to 30fps	
	Audio Compression	AAC	
	Record format	MP4	
	Network protocol	HTTP,UDP, TCP/IP,SMTP, FTP, PPPoE, DHCP, NTP, DDNS TBA	
	Supported Client OS	Windows XP / Vista	
Physical Properties	Housing	Plastic	
	Dimension	185(L)x124(W)x28.5(H)mm	
	Weight	TBA	TBA
Environment	Operating Temp.	0 ~ 50°C TBA	
	Storage Temp.	-20 ~ 60°C TBA	
	Humidity	0-80% RH, Non-condensing TBA	

## 5. System Requirements

### Computer System Requirements

1. CPU : Intel Pentium 4 2.0GHz or above
2. RAM : 512MB or above
3. Operating system : Windows XP SP2 or Windows Vista
4. Hard disk : at least 100MB capacity or above
5. Windows-compatible Graphics Card with DirectDraw Overlay Support
6. Sound Card : PCI sound card or on-board audio
7. Network : 10/100Mbps Ethernet LAN port connection ability
8. Microsoft DirectX 9.0c or above

### Box System Requirements

1. Router with NAT and UPnP features
2. Broadband Internet Access (Cable Modem or ADSL) with minimum upload bandwidth of 512Kbps or faster
3. TV signal (Air or Cable) or external input (Set-top box or DVD player)

## 6. Package Contents



PTA-8950 Unit



Power Adapter



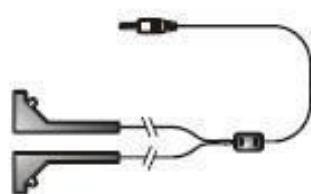
Composite Cable



A/V Output Cable



Ethernet Cable



IR Blaster Cable



RF Cable\*\*



RF Adapter\*\*



Quick Start Guide



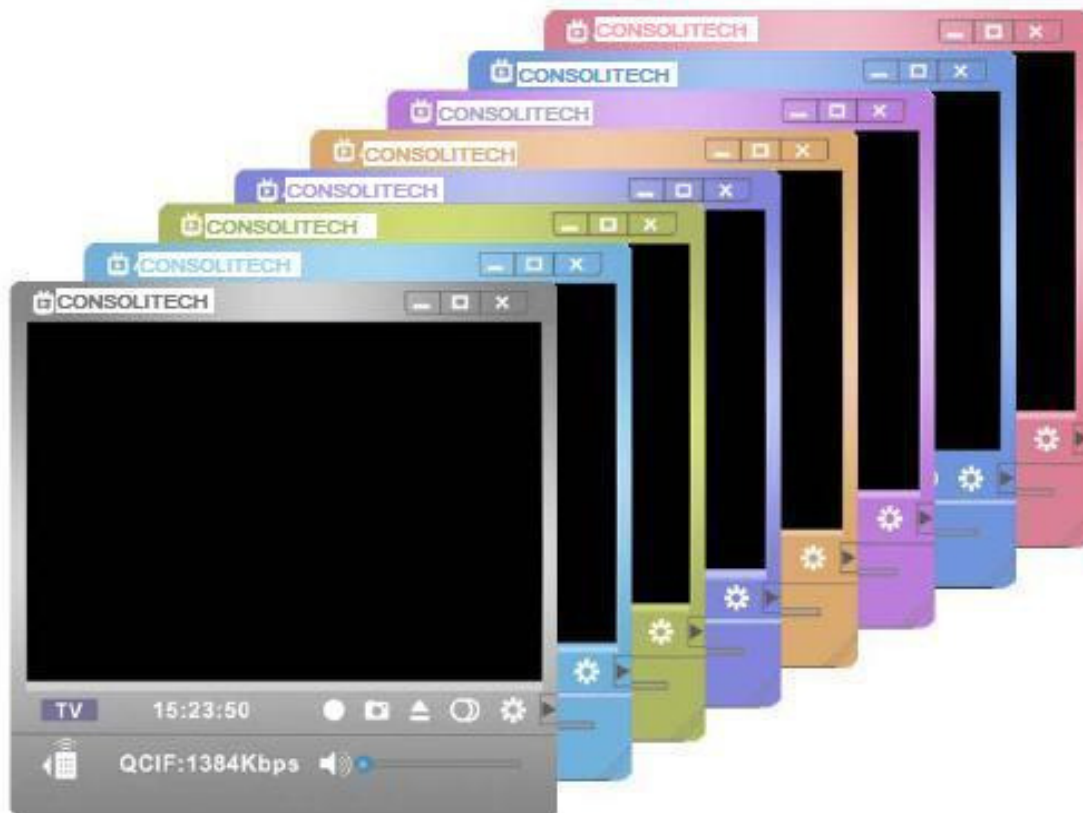
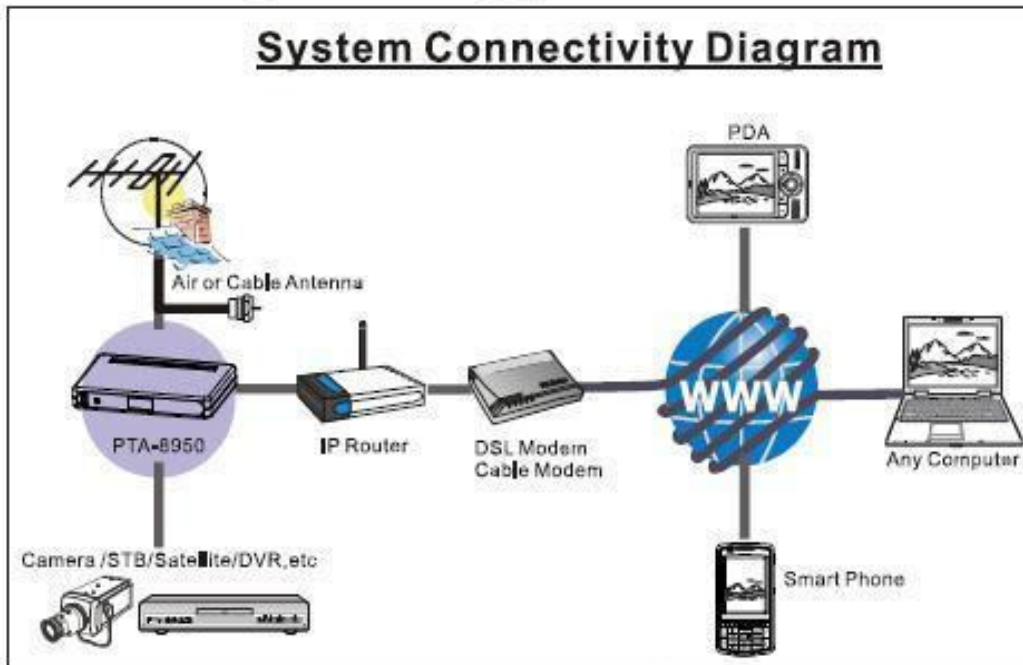
Software CD

\*\*For PTA-8950 only



## 7. Applications

1. Free Mobile TV & Home Entertainment
2. Surveillance & Security
3. Schedule Recording and Remote Playing



✧ Friendly user interface and multi colors skin