

# User Guide

## **NMP-530**

Network Media Player (NMP)

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For Your Records	
<b>Model Name:</b>	<b>NMP-530</b>
<b>Model Number:</b>	<b>VS11681</b>
<b>Document Number:</b>	<b>NMP-530_UG_ENG_REV1B</b> <span style="float: right;"><b>13-FEB-07</b></span>
<b>Serial Number:</b>	_____
<b>Purchase Date:</b>	_____

### Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. Your local waste disposal company may provide information about proper disposal.

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# INTRODUCTION

Thank you for buying the **ViewSonic® Network Media Player**. This section introduces you to the **NMP-530**.

## PACKAGED CONTENTS

Please check that all the following items are in the package:



S-Video/YPbPr Adapter



NMP-530



AC Power Adapter



RS-232 Cable



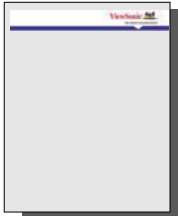
Remote Control and Two Batteries



RJ-45 Ethernet Cable



ViewSonic CD



Quick Start Guide

# REQUIREMENTS

The **NMP-530** requires the following:

## SYSTEM REQUIREMENTS

System requirements include a display, a network environment, and a PC with network capability.

## PC REQUIREMENTS (FOR BASIC SERVER)

- Operating System: Any Windows® or Linux OS capable of running a web server
- Processor: Intel® Pentium® 4, 1 GHz or higher (or compatible microprocessor)
- Memory: 512 MB RAM or more
- Network Interface: 100Base-TX

## SOFTWARE REQUIREMENTS

Software applications need to be purchased separately in order to create material for playback, such as graphics, video, and Flash files, etc.

## FEATURES

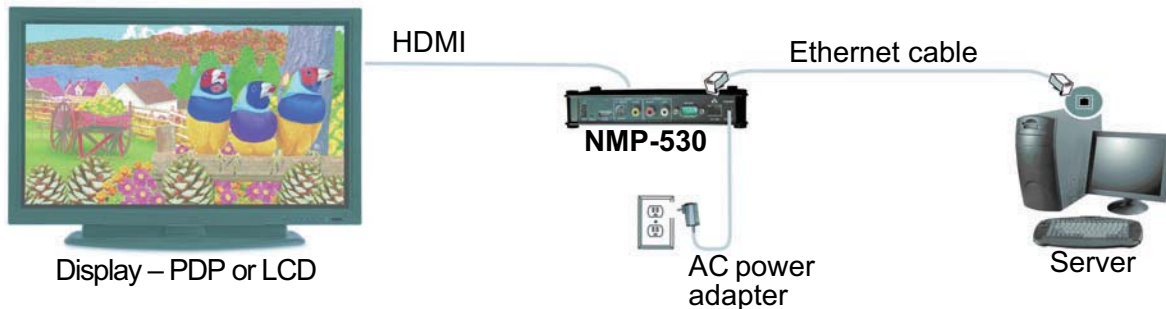
- Replaces remote PC that drives a display screen.
- Network ready for easy installation.
- Standards-based design for high inter-operability with other network devices and software.
- Pre-installed software application enables it to work right out of the box. No additional software required.
- Integrated Web browser with Flash plug-in, standalone Flash player, HD (High-Definition) player.
- Provides fast, efficient delivery of digital content using IP Technology.
- MPEG1, MPEG2, MPEG4, and Macromedia Flash support.
- Powerful combination of Sigma Design's EM8621L and Freescale's MPC8247 resulting in smooth playback operation.
- Supports multicast and unicast digital broadcast applications.
- Small form factor for installation in tight spaces. Can easily be hidden from view.
- Multiple video outputs enable flexibility.
- Devices can be remotely controlled from virtually anywhere on a network or with an Internet connection.



# TWO MODES OF OPERATION

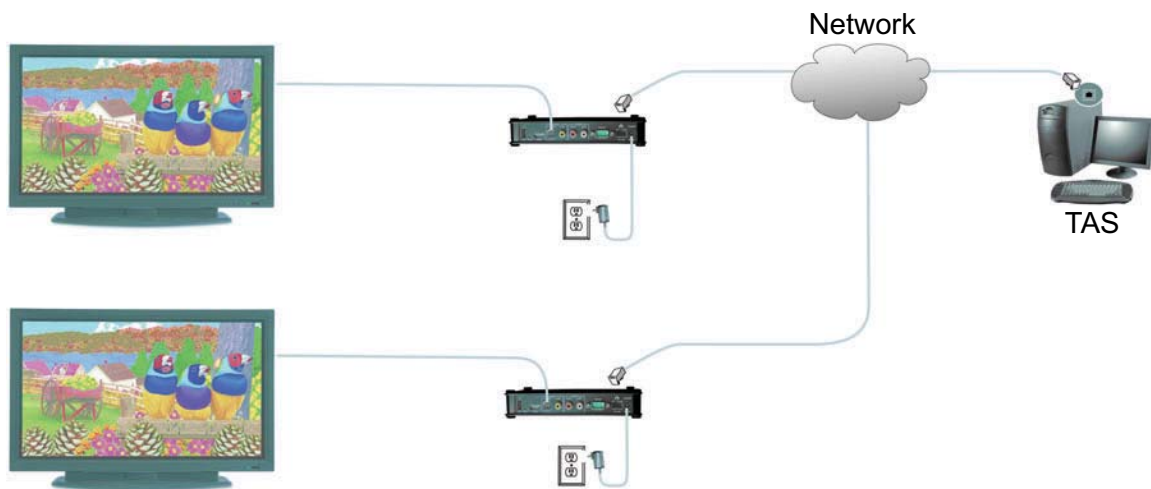
## STANDALONE

Standalone setup allows the **NMP-530** to act as an independent network device to display content on a Plasma Display Panel (PDP) or a Liquid Crystal Display (LCD) for digital signage or narrowcasting applications. Content can come from either the remote server or local storage on the **NMP-530**.



## TAS MANAGED

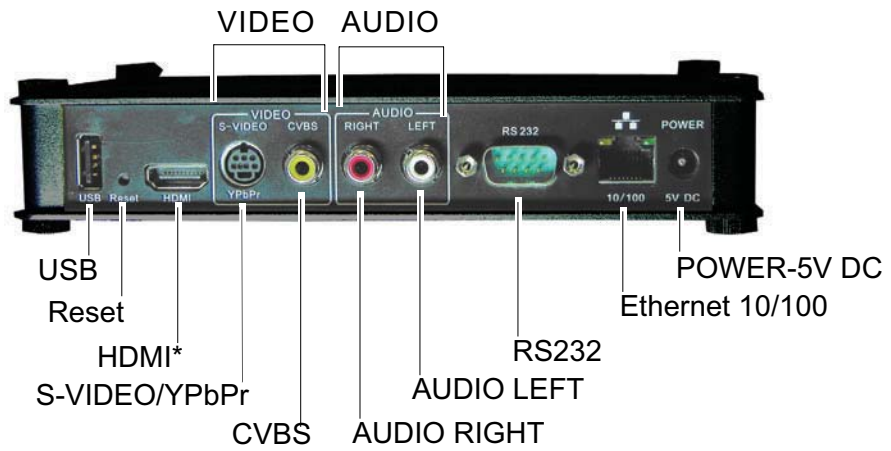
You can purchase TAS separately through Tivella ([www.tivella.com](http://www.tivella.com) or a Tivella dealer/reseller). A TAS server should be used to configure and manage multiple **NMP-530s** remotely. TAS provides centralized scheduling of video content presentation on multiple **NMP-530s**, as well as management and seamless operation of a Cisco® ACNS Content Distribution Networking infrastructure if one is installed. This configuration greatly reduces maintenance overhead, when TAS and the **NMP-530** are connected to the network (LAN/WAN) with the TAS acting as a manager for multiple **NMP-530s**.



## FRONT VIEW

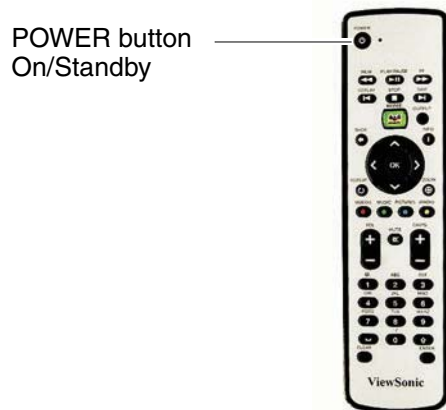


## BACK VIEW



\*If your monitor has a DVI input, use an HDMI-to-DVI cable.

## REMOTE CONTROL



# SETUP

For the initial setup, you need the following:

- A Router with DHCP services
- A TV or Display with Composite or S-Video input for initial setup. During the setup, you can change the **NMP-530** output to the final display being used.
- A PC with Internet Browser

## 1. CONNECT TO A DISPLAY

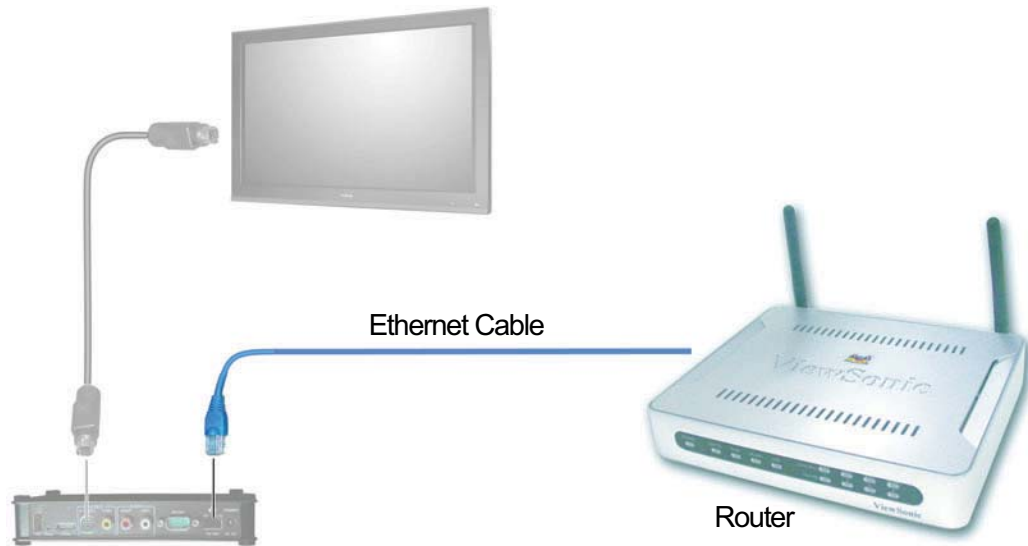
Connect the S-Video or Composite output of the **NMP-530** to the corresponding input on your TV or other display.



## 2. CONNECT TO A ROUTER

Connect the supplied RJ-45 ethernet cable from the **NMP-530** to a router with DHCP services. Refer to your router's user guide or contact your network administrator for assistance.

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### 3. TURN POWER ON

Connect the supplied DC Plug on the AC Power Adapter into the **NMP-530**. Turn the TV or the Display power on making sure that the Input is on the proper setting. Plug the AC Adapter to a wall outlet.



## 4. IP ADDRESS

Wait a few seconds and the IP Address of the **NMP-530** appears on the screen. Make a note of the IP information as this will be used to login to the **NMP-530**.



## 5. LOGIN

Open an **Internet Browser**, i.e., **Internet Explorer** on a PC in the same network. In the **URL address field**, type the IP address of the **NMP-530** noted in the previous step > press **Enter**. The **Login** screen appears. Type the defaults **Login: admin** and **Password: admin**. For security purposes, we recommend that you change the Login and Password. *For more information, see the **Security** section in this **NMP-530 User Guide**.* After logging in successfully, the **Network Configuration** screen appears as shown in the next step. **Note:** The **NMP-530** automatically logs you out after fives (5) minutes of inactivity.

## 6. START URL

Under **Management** click **Startup**. The screen shown below appears. In the **Video** field, enter a valid URL. Or, in the **Browser** field, enter a valid web page.

The screenshot displays the web interface for the ViewSonic NMP-530. On the left is a navigation menu with categories: Management, Actions, Administration, and Help. The 'Management' section is expanded, showing 'Startup' and 'Browser' as sub-items. Two arrows point to 'Startup' and 'Browser' in the menu. The main content area is divided into two sections: 'Startup URLs' and 'Network Configuration'. The 'Startup URLs' section contains fields for Video, Failover Video, Browser (set to 'http:\\www.viewsonic.com'), Failover Browser, Number of retries before go to Failover Browser (set to 10), and Timeout between retries (milliseconds) (set to 5000). The 'Network Configuration' section contains fields for MAC address (00:0f:44:00:5b:36), DHCP (Enabled), IP address (192.168.12.38), Subnet mask (255.255.255.0), Default gateway (192.168.12.1), and DNS server IP address (192.168.12.1). An 'Apply' button is located at the bottom of the Network Configuration section.

Startup URLs	
Video	
Failover Video	
Browser	http:\\www.viewsonic.com
Failover Browser	
Number of retries before go to Failover Browser	10
Timeout between retries (milliseconds)	5000

Network Configuration	
MAC address	00:0f:44:00:5b:36
DHCP	Enabled
IP address	192.168.12.38
Subnet mask	255.255.255.0
Default gateway	192.168.12.1
DNS server IP address	192.168.12.1

## 7. SET VIDEO OUTPUT OF NMP-530

By default, the video output is set to S-Video. But, you can choose any one of the following connections if you prefer, depending on the type of display input you want to use.

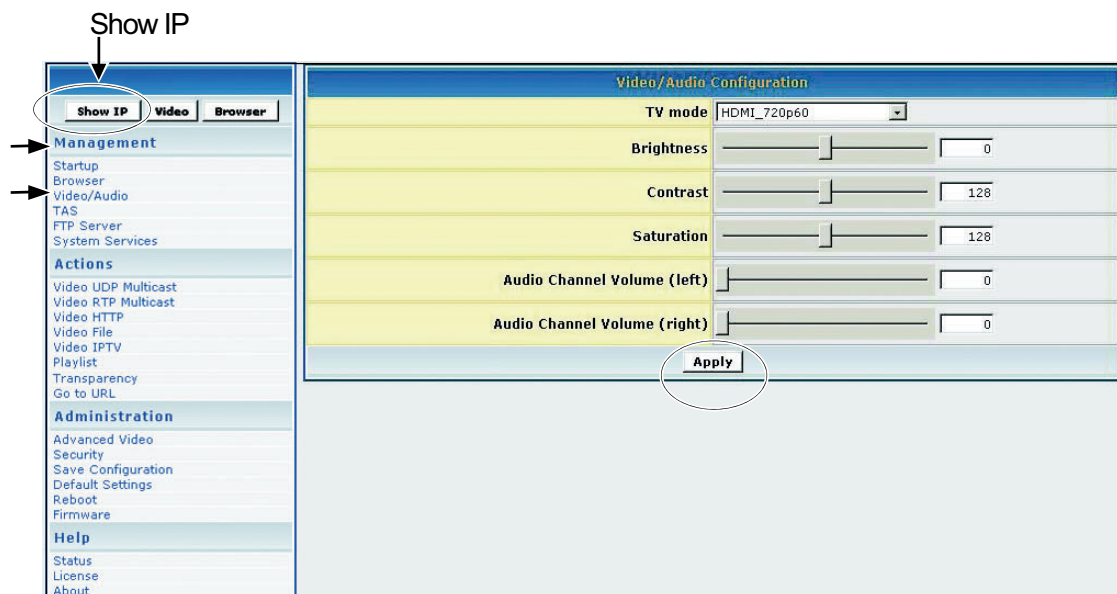
**HDMI:** Connect a HDMI cable from the back of the **NMP-530** to the HDMI interface on the back of the display.

**S-Video:** Default. Connect an S-Video cable from the S-Video interface on the back of the **NMP-530** to the S-Video interface on the back of the display.

**Component:** Using the S-Video/YPbPr adapter.

**Composite:** Using an RCA cable.

To change the output setting, login to the **NMP-530**, under **Management** click **Video/Audio**. The screen shown below appears. *For more information, see the **Video/Audio Configuration** section in this guide.*



1. In the **TV Mode** field, click the down arrow for the pull-down menu and select one of the resolutions required by your display (PDP or LCD).
2. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.



## 8. PUT BATTERIES IN REMOTE CONTROL

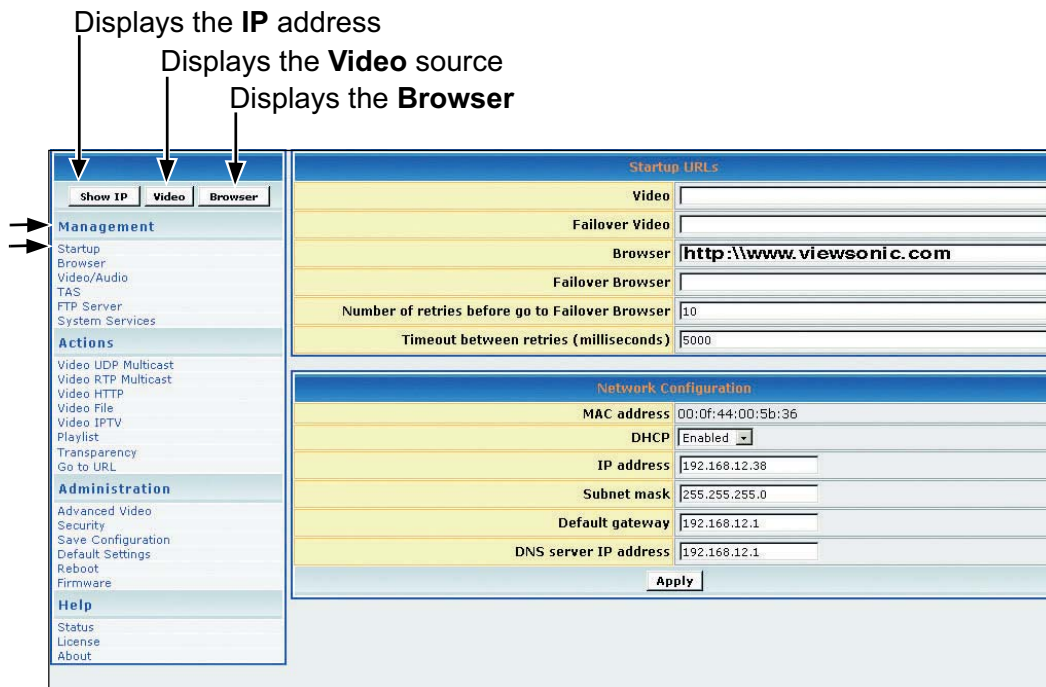
Remove the back cover from the remote control as shown below. Put two AA batteries in the battery compartment. Be sure to match the positive end of the battery with the positive end in the compartment. Put the cover back on the remote control.



# MANAGEMENT

## STARTUP URLS/NETWORK CONFIGURATION

The **Network Configuration** screen allows you to select the video that appears on-screen when you boot up the **NMP-530**. To go to the **Network Configuration** screen after logging into the **NMP-530**, under **Management** click **Startup**. The **Startup URLs** screen and the **Network Configuration** screen appears as shown below. **Failover Video** and **Failover Browser** - the URL entered on these fields will be enabled if the main Video and Browser Startup URL's failed to play.



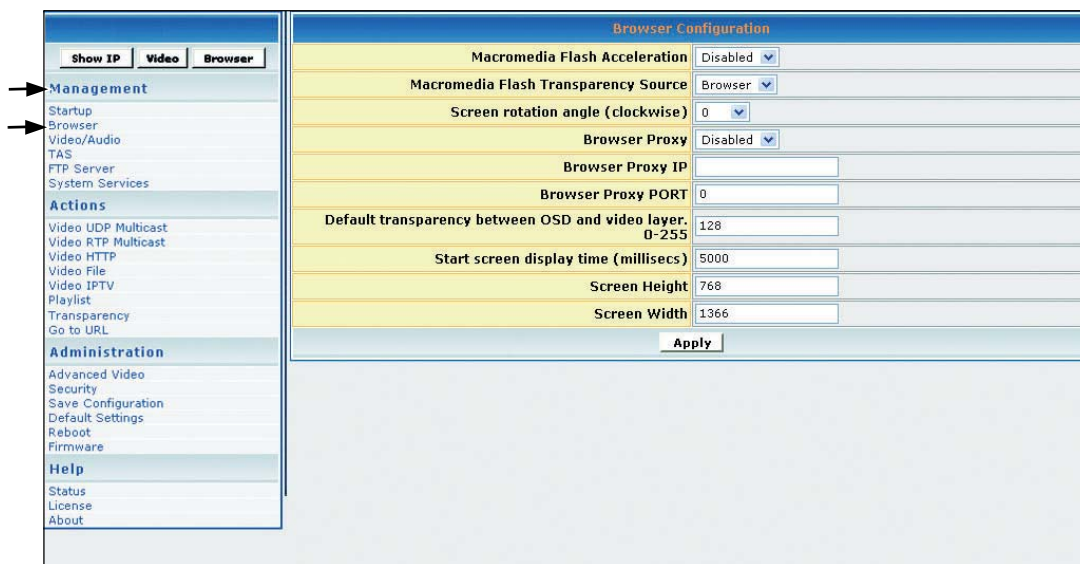
- 1 To play a particular video at startup, in the **Video** field, enter a valid HTML page. Here are some examples:
  - **http://<ip-address>/<mpeg-1/2-file-located on WEB Server>**
  - **udp://<ip-multicast-address>/port**
  - **rtp://<multicast-address>/port**
  - **iptv://<ip-multicast-address>/videoport/audioport**
  - **playlist=http://<ip-address>/<playlist-file-located-on-WEB-server>**
2. In the **Browser** field, enter a startup web screen (for example, <http://www.viewsonic.com>). Note: The **MAC address** is a read-only field that displays the built-in MAC address of the unit.

*Continued . . .*

3. In the **DHCP** field of the **Network Configuration** screen, tap the down arrow for the pull-down menu and select **Enabled** to dynamically get network parameters. Make sure there are values in the **IP address**, **Mask**, **Gateway**, and **DNS** fields although DHCP assigns values to these fields automatically. If you select **Disabled**, type valid network parameters in these fields.
4. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

## BROWSER CONFIGURATION

The **Browser Configuration** screen allows you to make specific screen settings for a specific URL that you chose. under **Management** click **Browser**. The screen shown below appears.  
 Note: 1 millisecond = 1/1000th second.



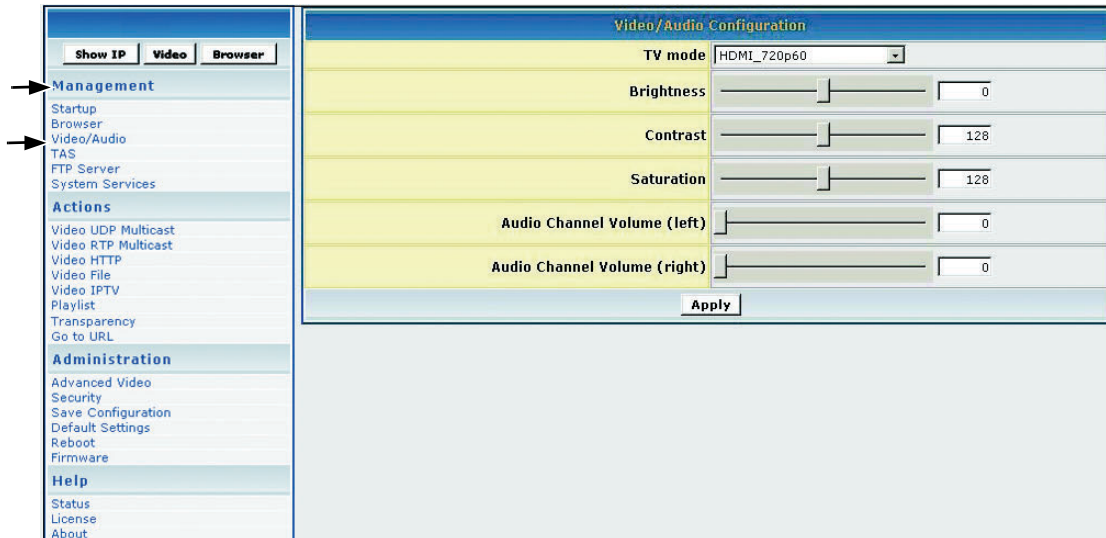
1. In the **Macromedia Flash Transparency Source** field, select one of the options from the pull-down menu.
2. In the **Screen rotation angle (clockwise)** field, select one from the pull-down menu for the angle of rotation of the HTML content displayed on-screen. This feature is useful when the **NMP-530** is installed vertically.

*Continued . . .*

3. In the **Browser Proxy** field, select **Enabled** or **Disabled** from the pull-down menu.
4. In the **Browser Proxy IP** field, type an IP address if the **Browser Proxy** was Enabled.
5. In the **Browser Proxy PORT** field, type the port if the **Browser Proxy** was Enabled.
6. In the **Default transparency between OSD and video layer** field, type a number that is between 0 to 255: (128 is average where video and graphics blend together). Also, see examples in the Transparency section of this guide.
  - 0 = video only, no graphics
  - 255 = graphics only, no video
7. In the **Start screen display time** field, type the number of milliseconds you want the initial screen to be displayed at startup. (1 millisecond = 1/1000 second)
8. In the **Screen Height** field, type the height of the screen that is displaying your graphics image.
9. In the **Screen Width** field, type the width of the screen that is displaying your graphics image.
10. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

# VIDEO/AUDIO CONFIGURATION

This screen is used to adjust the display and audio parameters. Under **Management** click **Video/Audio**. The screen shown below appears.



1. In the **TV Mode** field, click the down arrow for the pull-down menu and select one of the options.
2. Move the **Brightness** slider: values range between -128 and 127
3. Move the **Contrast** slider: values range between 0 and 255
4. Move the **Saturation** slider: values range between 0 and 255
5. Move the **Audio Channel Volume** (left) slider: values range between 0 and 100
6. Move the **Audio Channel Volume** (right) slider: values range between 0 and 100
7. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

# TAS CONFIGURATION

This screen works in conjunction with **TAS**. (TAS software can be purchased through Tivella at [www.tivella.com](http://www.tivella.com) or through an authorized Tivella dealer/reseller.) Under **Management** click **TAS**. The screen shown below appears.

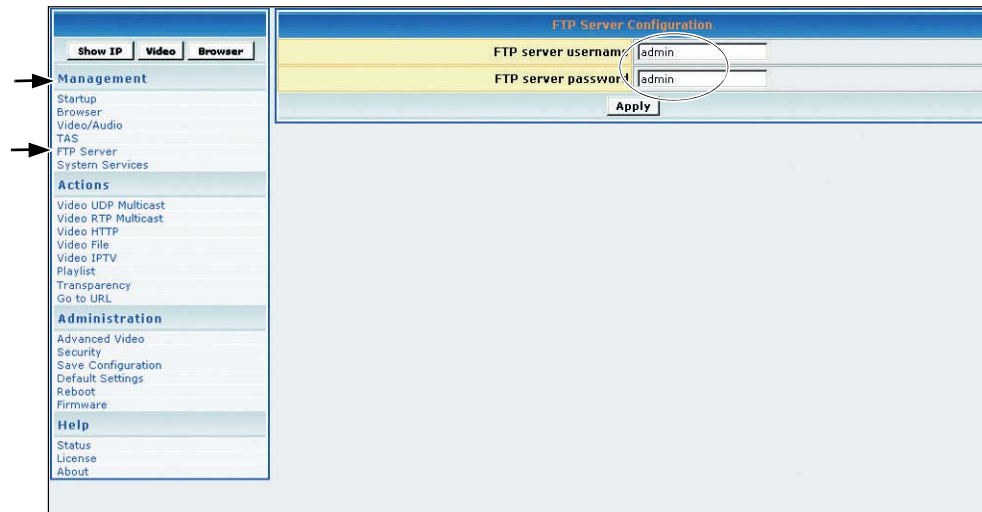


1. In the **Timeout (sec)** field, type the number of seconds for the **NMP-530s** to access TAS.
2. In the **IP Address** field is a valid DNS name automatically generated by TAS when connected to a network: when used as a standalone, the field is blank.
3. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

# FTP SERVER

Uploading content to local storage using FTP:

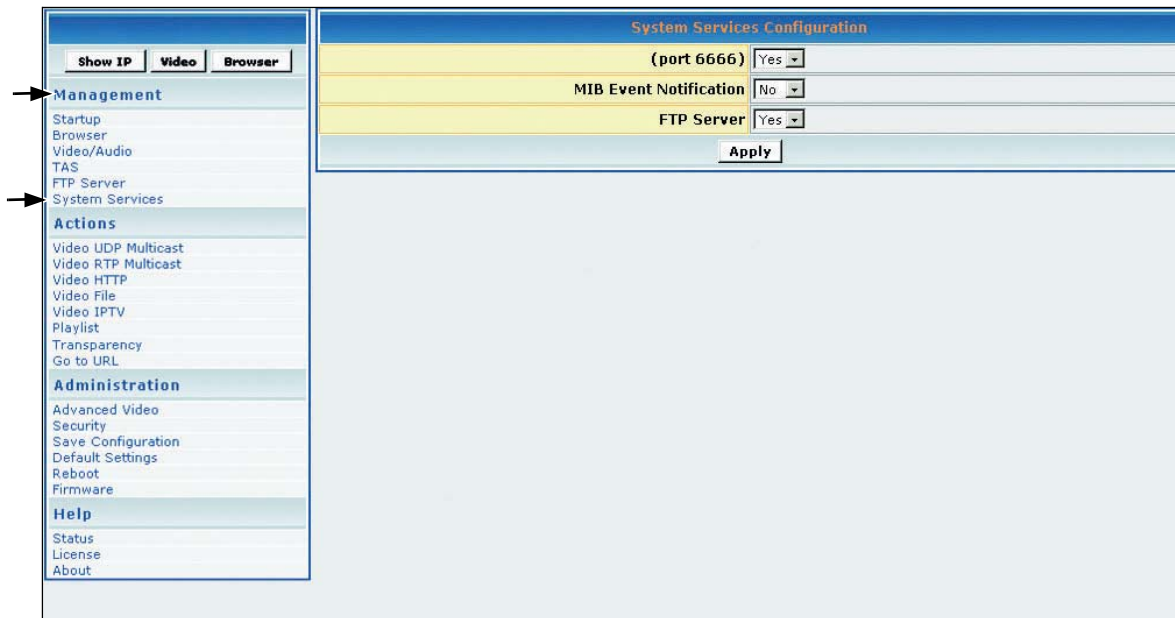
1. To enable **FTP Server** under **Management** click **System Services**. The **System Services Configuration** screen appears as shown on the next page. In the **FTP Server** field, select **YES** > click **Apply**. To save your settings on the **NMP-530**, under **Administration** click **Save Configuration** > **Reboot**.
2. The **FTP server** user name and password default **Username** and **Password** is **admin/admin**. For security reasons, it is recommended that the default be changed. To change the **FTP server** user name and password, click **FTP Server** under **Management**. The screen shown below appears. Enter a new user name and password > click **Apply**. To save your settings on the **NMP-530**, under **Administration** click **Save Configuration** > **Save** > **Reboot**.



3. Using an FTP Client software (i.e. Cute FTP, etc.), use the IP Address of the **NMP-530** as the FTP Server address and enter the username and password set in Management/FTP Server (default: admin/admin).
4. Open the folder hd1 and start uploading content to the local storage. Both videos and web pages can be downloaded onto the storage.

# SYSTEM SERVICES CONFIGURATION

Configure System Services in the MIB (Management Information Base) to manage the following groups: Network, Browser, Video/Audio, TAS, and System Services. Under **Management** click **System Services**. The screen shown below appears.



1. In the **(port 6666)** field, select **Yes** to access the **NMP-530** using a Telnet client on port 6666. If you do not want this, select **No**.
2. In the **MIB Event Notification** field, select **Yes** to be notified of changes that you made to the **NMP-530** settings.
3. **FTP Server** - select **YES** to enable uploading of files to the local storage.
4. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

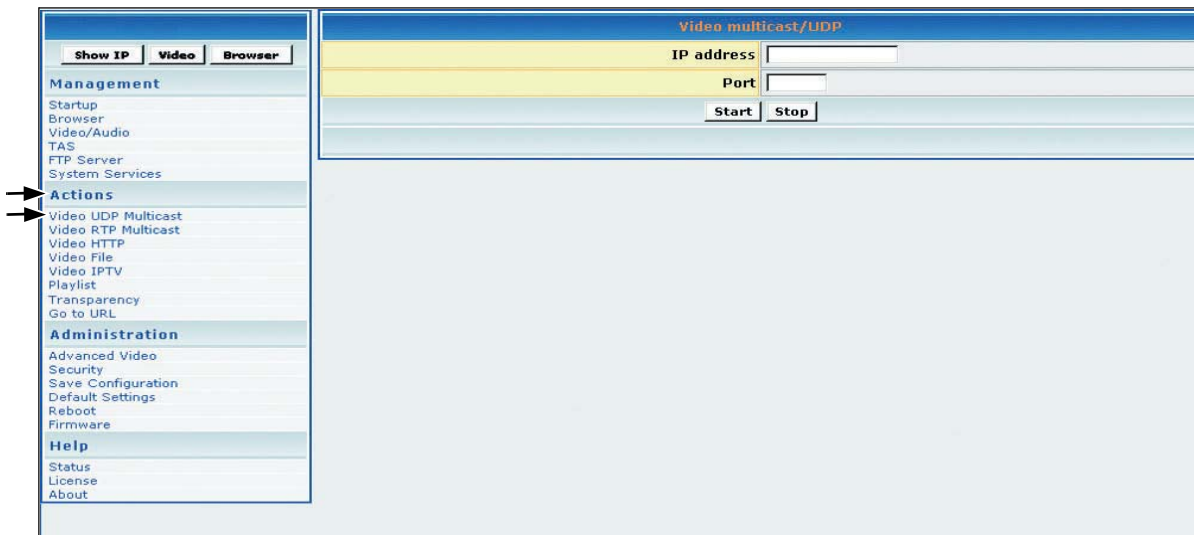


# ACTIONS

This section mainly concerns video related activities. Video can be streamed and organized in Playlists. When you initiate a stream, you can see the video on your display. You can also change the **Transparency** of the screen or go to a specific URL on the fly.

## VIDEO UDP MULTICAST

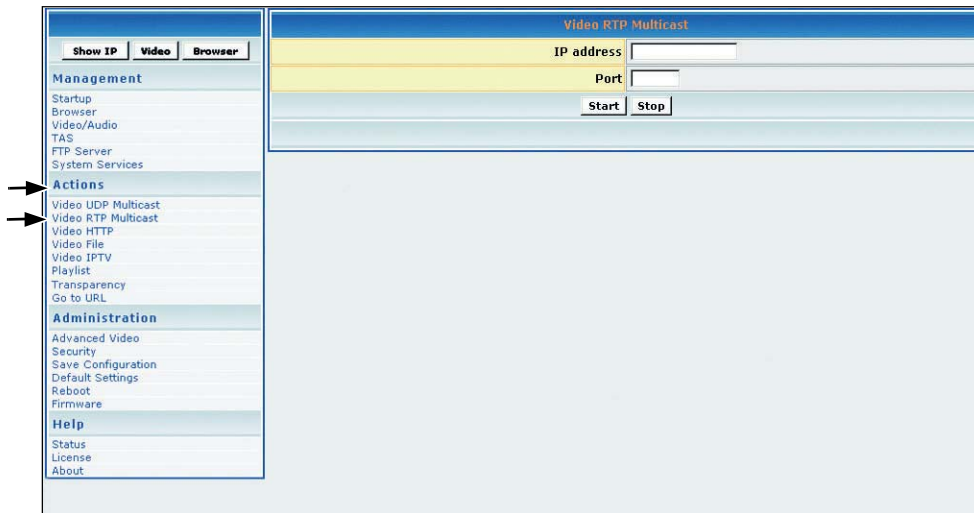
This screen allows you to play streams using the assorted protocols. Under **Actions** click **Video UDP multicast**. The screen shown below appears.



1. In the **IP address** field, type the IP Address transmitting UDP based multicast stream (for example, 239.1.1.7)
2. In the **Port** field, type the **Port** number used to receive the multicast.
3. To tell the system to listen to the UDP multicast stream from the IP on the Port that you entered, click **Start**.

# VIDEO RTP MULTICAST

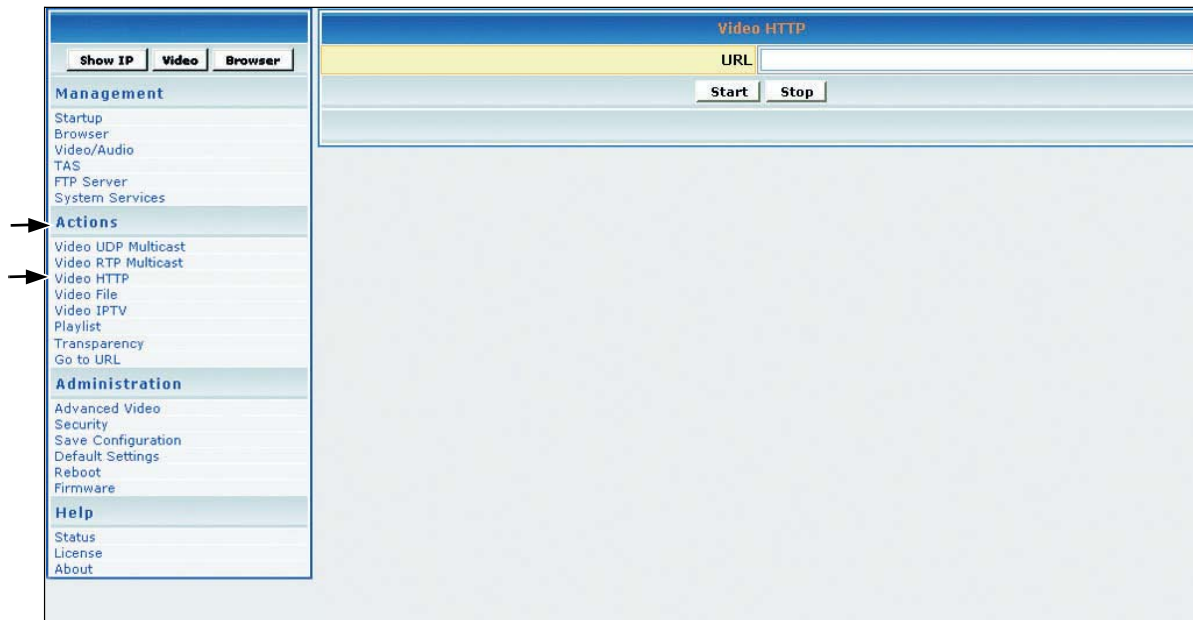
This screen allows you to play streams using the assorted protocols. Under **Actions** click **Video RTP multicast**. The screen shown below appears.



1. In the **IP address** field, type the IP Address transmitting RTP based multicast stream (for example, 239.1.1.7)
2. In the **Port** field, type the **Port** number used to receive the multicast.
3. To tell the system to listen to the UDP multicast stream from the IP on the Port that you entered, click **Start**.

# VIDEO HTTP

**Video HTTP** is used to play MPEG files residing on a web/HTTP server. The video is played once and is not looped. Under **Actions** click **Video HTTP**. The screen shown below appears.

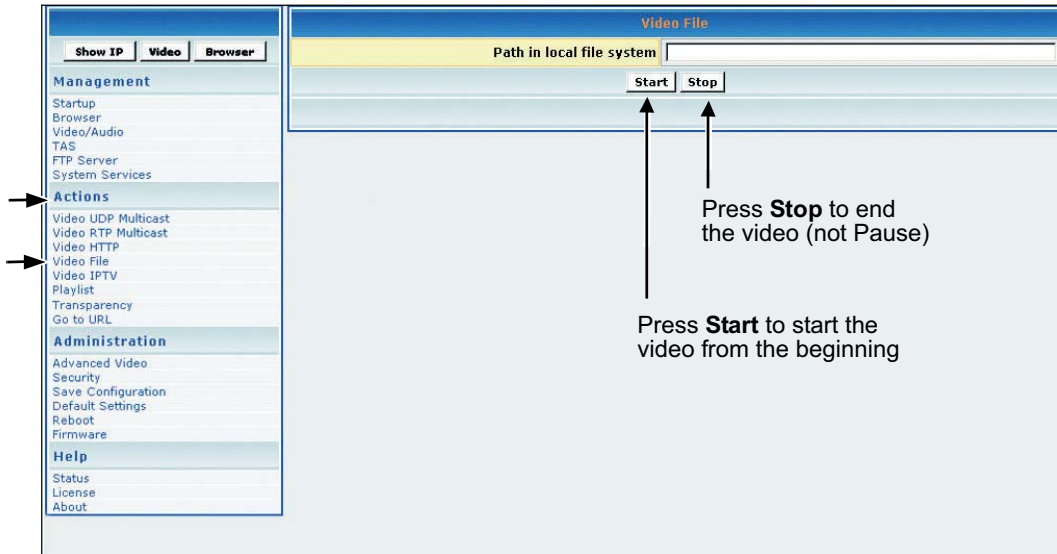


1. In the **URL** field, type the URL that corresponds to the HTTP stream that you want to appear on the display (for example: `http:192.168.12.x/movie.mpg`, or, `http://<server-ip>/file.mpg`).
2. To tell the system to listen to the HTTP stream from the entered URL, click **Start**.

# VIDEO FILE

The **Video File** screen allows you to play video files stored in the internal Hard Drive. Under **Actions** click **Video File**. The screen shown below appears. The video is played once and not looped.

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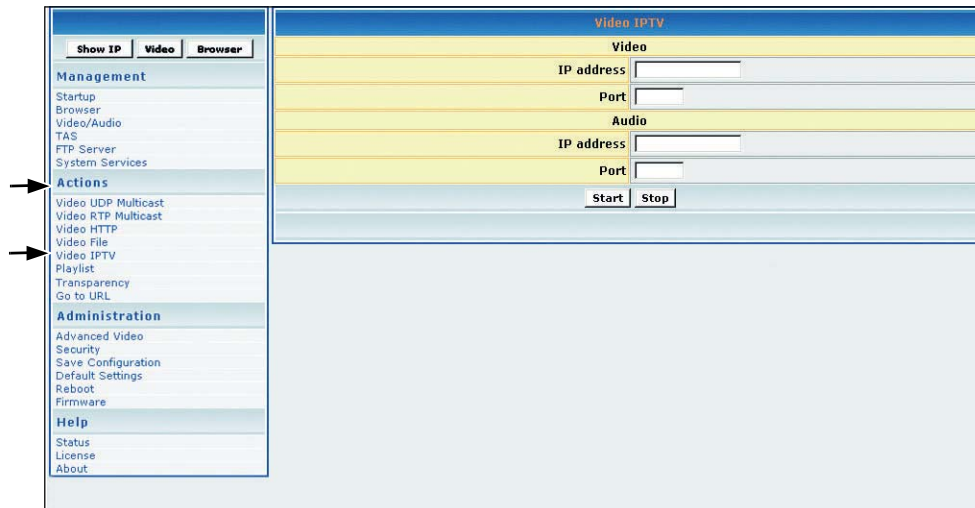
1. In the **Video File** field, type the location of the video content in the storage: for example, /tmp/ftproot/hd1/sample\_video.mpg > click **Start**.
2. If the video file is inside a folder (for example: /movie) in the hard drive, type /tmp/ftproot/hd1/**movie**/sample\_video.mpg

## PLAYING CONTENT FROM LOCAL STORAGE

The default local storage address is as follows: file:///tmp/ftproot/hd1. This is where all uploaded content resides. If certain content resides in a folder under hd1, then write the address as follows: file:///tmp/ftproot/hd1/<foldername>.

# VIDEO IPTV

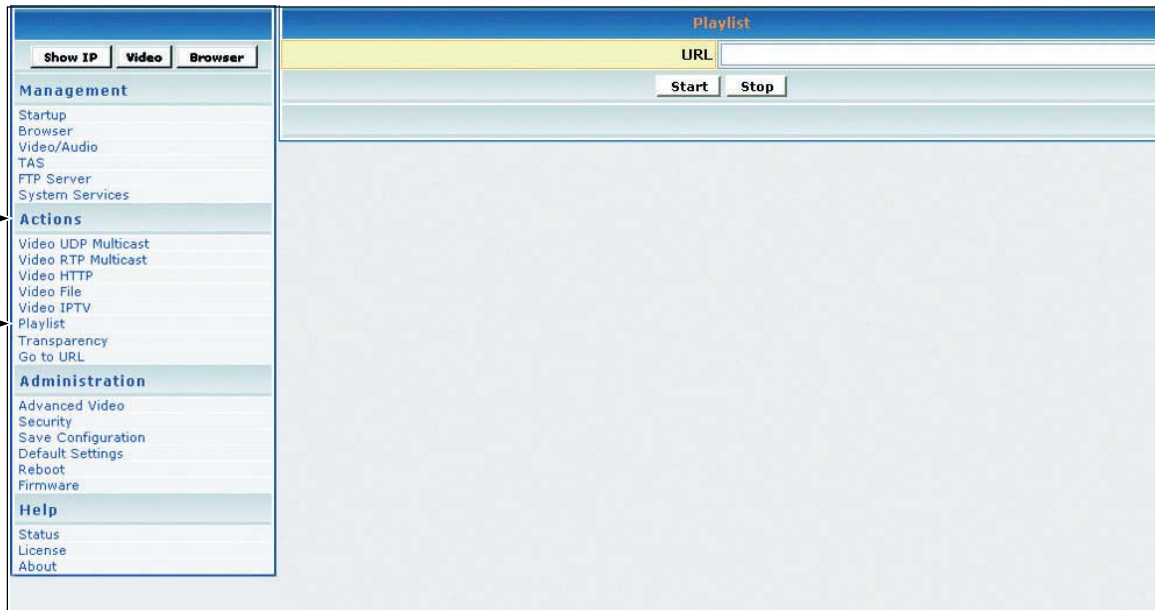
The **Video IPTV** screen allows you to play Split Stream files where the video and audio information being streamed is in two different addresses. This is similar to RTP multicast except the values for video and audio are entered separately. To get to the **Video IPTV** screen, under **Actions** click **Video IPTV**. The screen shown below appears.



1. Under **Video**, enter the **IP Address** and **Port** of the Video stream
2. Under **Audio**, enter the **IP Address** and **Port** of the Audio stream
3. Click **Start**

# PLAYLIST

**Playlist** is useful for playing multiple MPEG videos in succession and/or looping MPEG videos. To stream existing video **Playlists** on an HTTP server, under **Actions** click **Playlist**. The screen shown below appears.



## TO CREATE A PLAYLIST

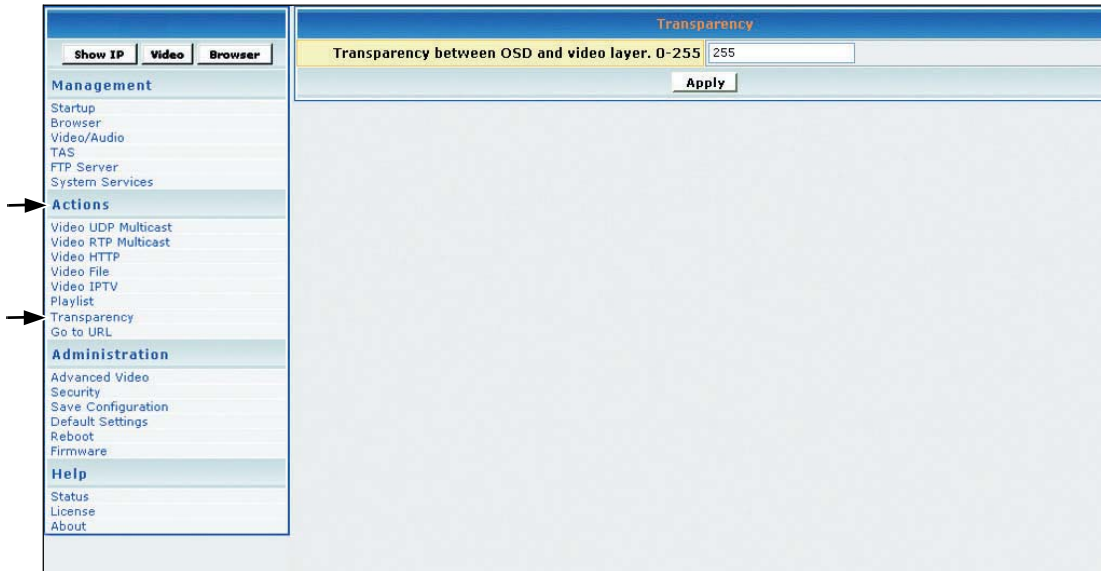
A **Playlist** is a text file that can be created in any text editor with an extension of .txt. A **Playlist** is necessary when you want the **NMP-530** to play specific content, in a specific order, usually looped. A **Playlist** can be created for the http streams. Example of a looped **Playlist**:

```
loop
http http://192.168.12.x/movie1.mpg
http http://192.168.12.x/movie2.mpg
http http://192.168.12.x/movie3.mpg
```

For a **Playlist** that is not looped, list the desired content without the keyword "loop."

# TRANSPARENCY

To change the transparency of the browser OSD (On-Screen Display) in relation to the video image in the background, under **Actions** click **Transparency**. The screen shown below appears.



1. In the **Transparency between OSD and video layer** field, type a number between 0 to 255 for a more or less transparent (translucent) browser image so you can still see through the browser as shown below on the right with your video or other images: 0 = no OSD, 255 = no video, 128 = equal transparency between video and OSD layers.

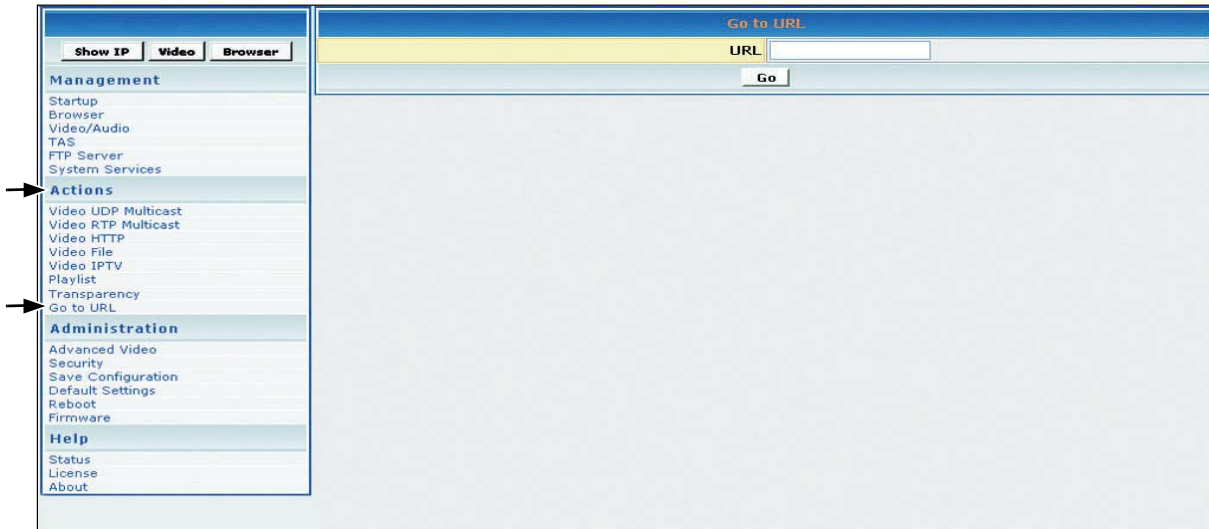


2. To apply the entered transparency value to the image on the **NMP-530**, click **Apply**.

# Go to URL

This screen is used to display HTML-based content. Under **Actions** click **Go to URL**. The screen shown below appears.

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1. In the **URL** field, type the desired URL.
2. To redirect the browser to the URL that you entered, click **Go**. The web page appears on your display.

**NOTE:** Check the Transparency setting if the browser screen does not appear after a few seconds. You can also click the **Browser** button to maximize the browser transparency.



# ADMINISTRATION

## ADVANCED VIDEO CONFIGURATION

To adjust the size and location of the video on the screen, under **Administration** click **Advanced video**. The screen shown below appears.

Advanced video Configuration	
X of destination window	<input type="text" value="2048"/>
Y of destination window	<input type="text" value="2048"/>
Width of destination window	<input type="text" value="4096"/>
Height of destination window	<input type="text" value="4096"/>
<input type="button" value="Apply"/>	

1. In the **X of destination window**, type the center point of the screen on the X axis.
2. In the **Y of destination window**, type the center point of the screen on the Y axis.
3. In the **Width of destination window**, type the width of the destination window.
4. In the **Height of destination window**, type the height of the destination window.
5. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

**NOTE:** X (max) = 4096, Y (max) = 4096 denotes height and width for X & Y destination

X = 2048 and Y = 2048 is actually the center point of the screen.

# SECURITY

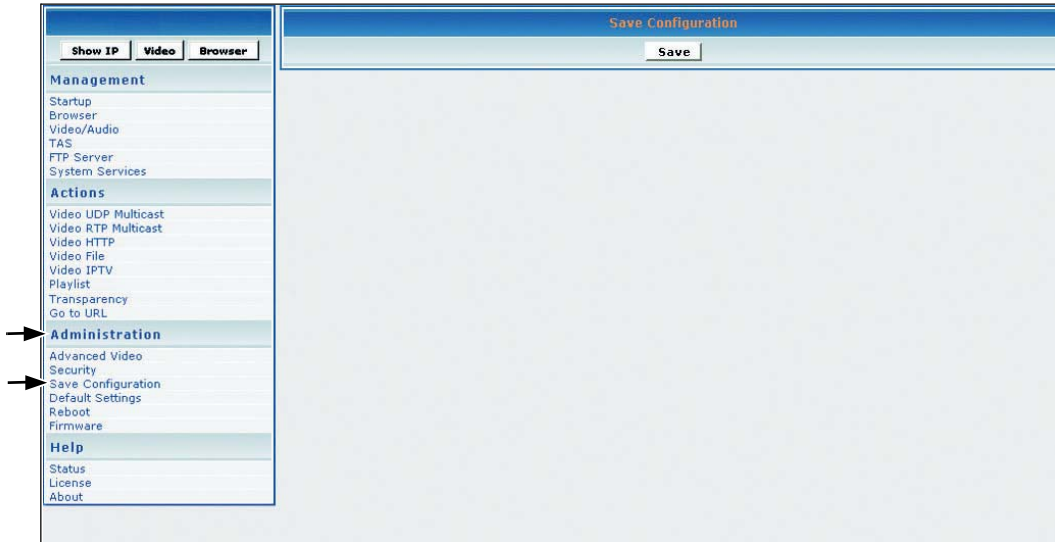
To change the **User name** and **Password** of the **NMP-530**, under **Administration** click **Security**. Current settings automatically appear in each field as shown below: default User name/Password is admin/admin.

The screenshot shows the 'Security Credentials' configuration page. On the left, a navigation menu is visible with the following sections: Management (Startup, Browser, Video/Audio, TAS, FTP Server, System Services), Actions (Video UDP Multicast, Video RTP Multicast, Video HTTP, Video File, Video IPTV, Playlist, Transparency, Go to URL), Administration (Advanced Video, Security, Save Configuration, Default Settings, Reboot, Firmware), and Help (Status, License, About). The 'Administration' section is expanded, and 'Security' is selected. The main content area contains three input fields: 'User name' with the value 'admin', 'Password' with '\*\*\*\*\*', and 'Repeat password' with '\*\*\*\*\*'. An 'Apply' button is located below the fields.

1. In the **Password** field, type a new password.
2. In the **Repeat Password** field, re-type the new password.
3. If any changes were made to this screen, do the following:
  - To enable the changes, click **Apply**
  - To save the changes, under **Administration** click **Save Configuration** > click **Save**.

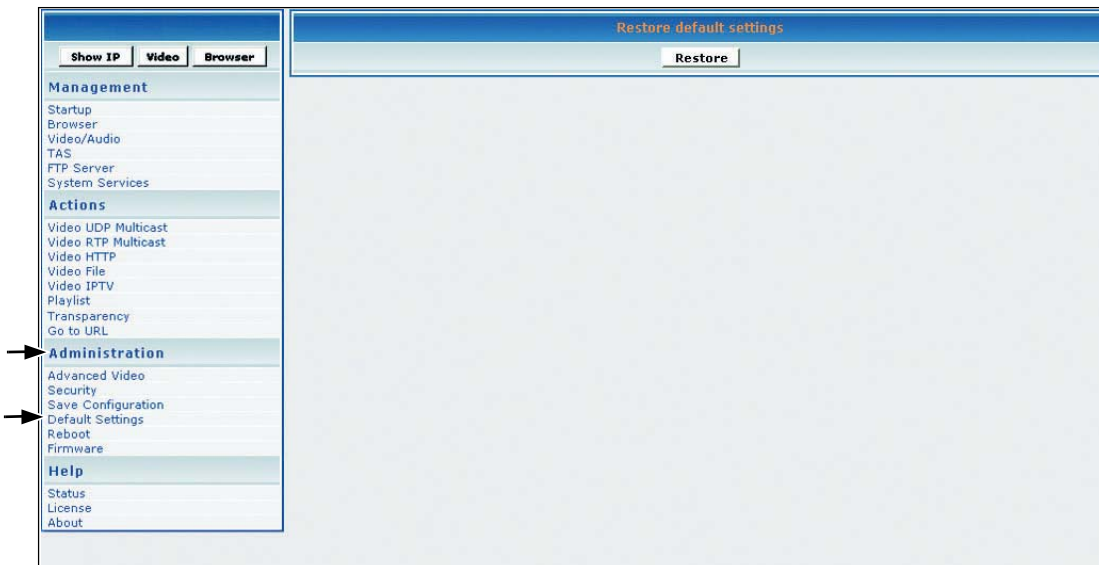
# SAVE CONFIGURATION

To save your settings on the **NMP-530**, under **Administration** click **Save Configuration**. The screen shown below appears. Click **Save**.



# DEFAULT SETTINGS

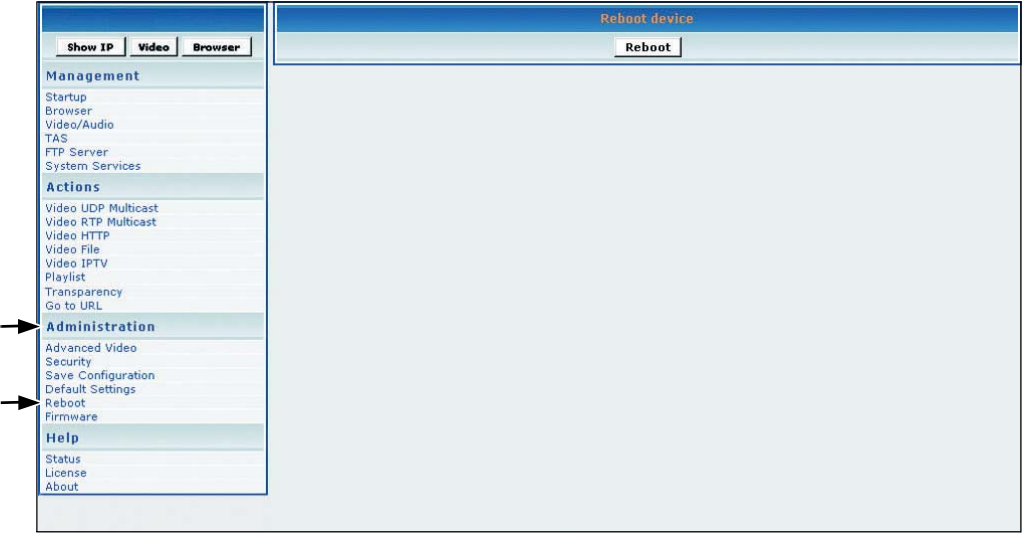
To restore the **NMP-530** back to factory settings, under **Administration** click **Default Settings**. The screen shown below appears. Click **Restore**. User-defined settings will be lost.



# REBOOT

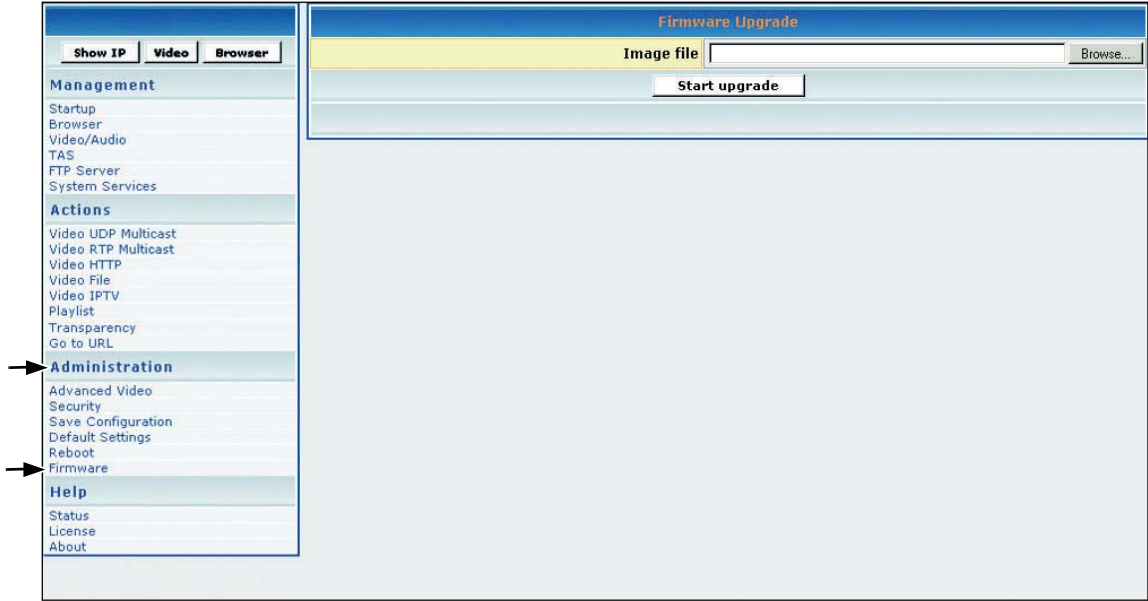
To reboot the **NMP-530**, under **Administration** click **Reboot**. The screen shown below appears. Click **Reboot**. The **NMP-530** reboots.

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# FIRMWARE UPGRADE

To upgrade the firmware on the **NMP-530**, under **Administration** click **Firmware**. The screen shown below appears. Click **Browse** to open the firmware file > click **Start upgrade**.



# HELP

## STATUS

**Status** refers to the log where you can track activity on a specific **NMP-530**. To show the **Status** log, under **Help** click **Status**. The screen shown below is for information only (no inputs).

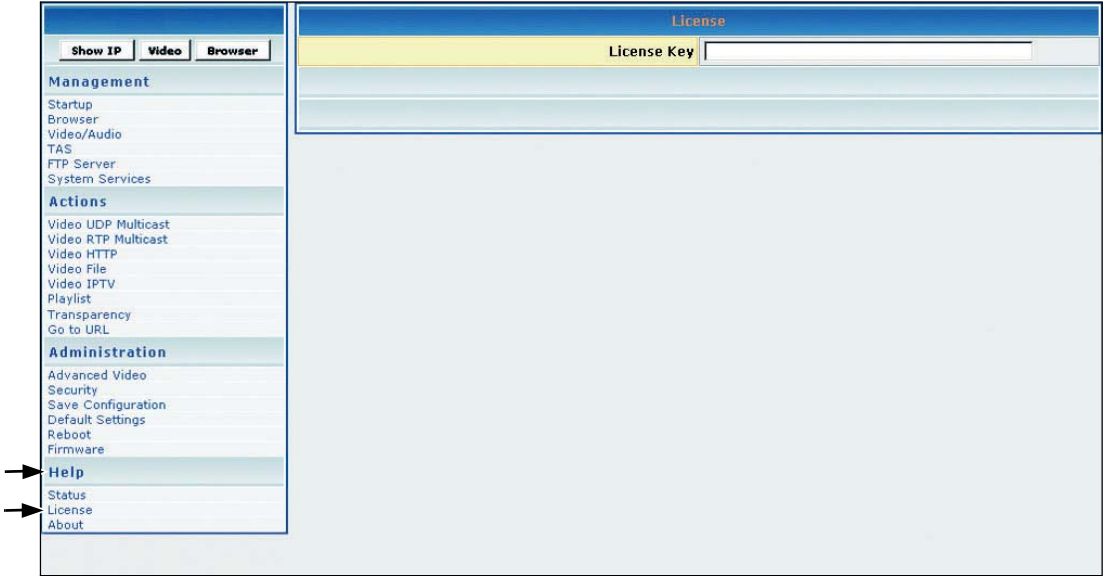
The screenshot shows the 'Device status' page in the NMP-530 web interface. The left sidebar has a 'Help' menu with 'Status' selected. The main content area displays the following system parameters:

Parameter	Type	Value
init.mount_first	T_STRING	
init.mounted	T_STRING	Not found
init.upg_context	T_STRING	MC upgrade has never been done
init.upg_status	T_STRING	MC upgrade not active
init.DMT_SCENARIO_TMO	T_LONG	0
init.DMT_SCENARIO	T_LONG	0
init.VS_video_mode	T_STRING	no
init.VNC_restart_delay	T_LONG	5000
init.VNC_restart	T_STRING	no
init.VNC_fullscreen	T_STRING	no
init.VNC_y	T_LONG	0
init.VNC_x	T_LONG	0
init.VNC_password	T_STRING	
init.VNC_server	T_STRING	
init.VNC_ping	T_STRING	no
init.FTP_password	T_STRING	admin
init.FTP_username	T_STRING	admin
init.License_ro	T_STRING	Y
init.License	T_STRING	00F088005B6C983E5347908A1E1D6148
init.DefaultFactorySetup	T_STRING	SETUP NUMBER_2 NUMBER_9
init.build	T_STRING	Thu Nov 2 00:23:45 PST 2006
init.model_name	T_STRING	Piccolo 4312
init.product	T_STRING	Piccolo 4312
init.version	T_STRING	2.41
init.macAddress	T_STRING	00:0f:
init.manufactHardware	T_STRING	
init.manufactVendor	T_STRING	
init.manufactDate	T_STRING	
init.lHydraServerPort	T_STRING	8080
init.lHydraServerAddress	T_STRING	192.168.12.99
init.BigHydraServerAddr	T_STRING	64.1.254.116
init.lightHydraMacUpdate	T_STRING	yes
init.startService_xapp	T_STRING	no
init.startService_FTP	T_STRING	yes

# LICENSE

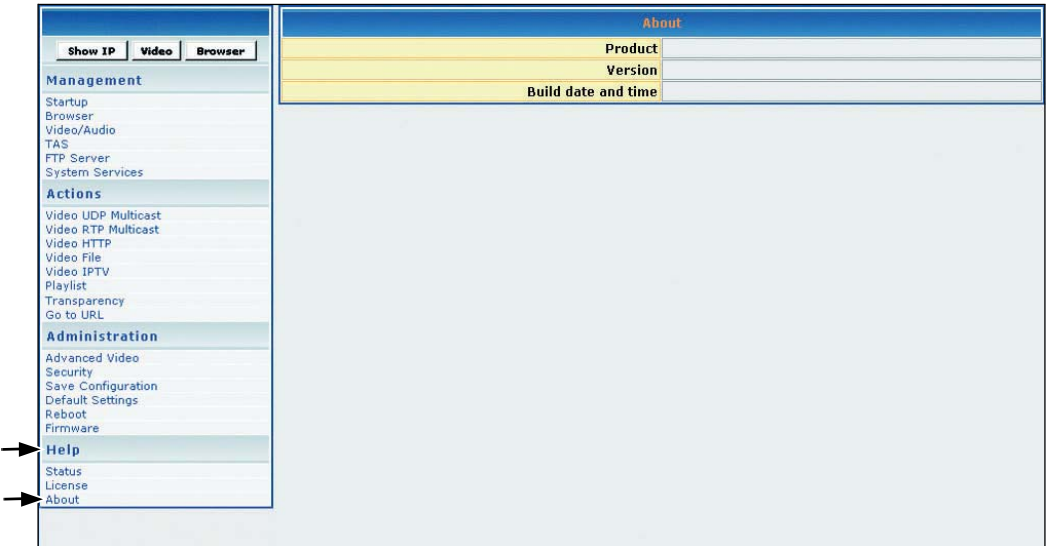
To activate the license on the **NMP-530**, under **Help** click **License**. The **License Key** may appear automatically in the screen shown below (read-only).

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# ABOUT

To show the current version of the product, under **Help** click **About**. The screen shown below appears (information only).



# APPENDIX

## COMPLIANCE AND SAFETY NOTICES

### FCC CLASS B COMPLIANCE NOTICE (UNITED STATES)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at user's own expense.

You can determine whether your equipment is causing interference by turning it off. If the interference stops, it was probably caused by this equipment or one of its peripheral devices. If the equipment causes interference to radio or television reception, try to correct the interference by using one or more of the following measures:

- Turn the television or radio antenna until the interference stops.
- Move the equipment to one side or the other of the television or radio.
- Move the equipment farther away from the television or radio.
- Plug the equipment into an outlet that is on a different circuit from the television or radio. (That is, make certain the equipment and the television or radios are on circuits controlled by different circuit breakers or fuses.)

Modifying the equipment without proper authorization may result in the equipment no longer complying with FCC requirements for Class A or Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

## Canadian compliance notice

**English:** This digital apparatus does not exceed the Canada ICES-003 Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

**French:** Le present appareil numerique nemet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de Canada ICES-003 Class B prescrites dans le reglement sur le brouillage radioelectrique edicte par le Ministere des Communications du Canada.

## European compliance notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:



- EN55022 (CISPR 22) Radio Frequency Interference
- EN55024 (IEC61000-4-2, -4-4, -4-5, -4-6, -4-11)
- EN60950 (IEC950) Product Safety

## Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:



Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr <sup>6+</sup> )	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%



Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below. Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices)
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)
4. Lead as an alloying element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.

### For EU-member states only as follows:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



### Power supply safety notice

The power supply provided with this device is for use with this device only. Replace only with the same or equivalent type power supply as recommended by the manufacturer.

### BSMI

(1) This is manufacturer address:

Manufactured by Universal Scientific Industrial Co.,Ltd.

USI Electronics Park, North of High-Tech Industrial Park, NanShan District,  
ShenZhen, P.R.C

(2) This is the applicant information:

環隆電氣股份有限公司

南投縣草屯鎮太平路一段 351 巷 141 號

(3) 代理商: 優派國際股份有限公司

台北縣 235 中和市建成路 192 號 9 樓

# SCREENS MANAGEMENT

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Show IP   Video   **Browser**

**Management**

- Startup
- Browser
- Video/Audio
- TAS
- FTP Server
- System Services

**Actions**

- Video UDP Multicast
- Video RTP Multicast
- Video HTTP
- Video File
- Video IPTV
- Playlist
- Transparency
- Go to URL

**Administration**

- Advanced Video
- Security
- Save Configuration
- Default Settings
- Reboot
- Firmware

**Help**

- Status
- License
- About

Startup URLs

**Video**

**Failover Video**

**Browser**

**Failover Browser**

**Number of retries before go to Failover Browser**

**Timeout between retries (milliseconds)**

Network Configuration

**MAC address** 00:0f:44:00:5b:36

**DHCP**

**IP address**

**Subnet mask**

**Default gateway**

**DNS server IP address**

**Apply**

Video/Audio Configuration

**TV mode**

**Brightness**

**Contrast**

**Saturation**

**Audio Channel Volume (left)**

**Audio Channel Volume (right)**

**Apply**

FTP Server Configuration

**FTP server username**

**FTP server password**

**Apply**

TAS Configuration

**Timeout (sec)**

**IP Address**

**Apply**

System Services Configuration

**(port 6666)**

**MIB Event Notification**

**FTP Server**

**Apply**

# ACTIONS

The screenshot displays the 'ACTIONS' menu on the left, which is highlighted with an arrow. The menu includes sections for Management, Actions, Administration, and Help. The 'Actions' section is expanded, showing options like Video UDP Multicast, Video RTP Multicast, Video HTTP, Video File, Video IPTV, Playlist, Transparency, and Go to URL.

The main content area shows several configuration panels, each with a blue header and a yellow background for the main input field:

- Video multicast/UDP:** IP address, Port, Start, Stop buttons.
- Video RTP Multicast:** IP address, Port, Start, Stop buttons.
- Video HTTP:** URL, Start, Stop buttons.
- Video File:** Path in local file system, Start, Stop buttons.
- Video IPTV:** Video section with IP address and Port; Audio section with IP address and Port; Start, Stop buttons.
- Playlist:** URL, Start, Stop buttons.
- Transparency:** Transparency between OSD and video layer. 0-255 (with 255 entered), Apply button.
- Go to URL:** URL, Go button.

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# ADMINISTRATION

ENGLISH

Show IP | Video | Browser

**Management**

Startup  
Browser  
Video/Audio  
TAS  
FTP Server  
System Services

**Actions**

Video UDP Multicast  
Video RTP Multicast  
Video HTTP  
Video File  
Video IPTV  
Playlist  
Transparency  
Go to URL

**Administration**

Advanced Video  
Security  
Save Configuration  
Default Settings  
Reboot  
Firmware

**Help**

Status  
License  
About

Advanced video Configuration

X of destination window	<input type="text" value="2048"/>	
Y of destination window	<input type="text" value="2048"/>	
Width of destination window	<input type="text" value="4096"/>	
Height of destination window	<input type="text" value="4096"/>	

Security Credentials

User name	<input type="text" value="tivella"/>	
Password	<input type="password" value="*****"/>	
Repeat password	<input type="password" value="*****"/>	

Save Configuration

Restore default settings

Reboot device

Firmware Upgrade

Image file	<input type="button" value="Browse..."/>
------------	--

# HELP

Show IP | Video | Browser

**Management**

Startup  
Browser  
Video/Audio  
TAS  
FTP Server  
System Services

**Actions**

Video UDP Multicast  
Video RTP Multicast  
Video HTTP  
Video File  
Video IPTV  
Playlist  
Transparency  
Go to URL

**Administration**

Advanced Video  
Security  
Save Configuration  
Default Settings  
Reboot  
Firmware

**Help**

Status  
License  
About

Device status

```

init.mount_first T_STRING
init.mounted T_STRING Not found
init.upg_context T_STRING MC upgrade has never been done
init.upg_status T_STRING MC upgrade not active
init.DMT_SCENARIO_TH0 T_LONG 0
init.DMT_SCENARIO T_LONG 0
init.VS_video_mode T_STRING no
init.VNC_restart_delay T_LONG 5000
init.VNC_restart T_STRING no
init.VNC_fullscreen T_STRING no
init.VNC_y T_LONG 0
init.VNC_x T_LONG 0
init.VNC_password T_STRING
init.VNC_server T_STRING
init.VNC_ping T_STRING no
init.FTP_password T_STRING admin
init.FTP_username T_STRING admin
init.License_ro T_STRING Y
init.License T_STRING 00F088005B6C983E5347908A1B1D6148
init.DefaultFactorySetup T_STRING SETUP_NUMBER_2_NUMBER_9
init.build T_STRING Thu Nov 2 00:23:45 PST 2006
init.model_name T_STRING Piccolo 4312
init.product T_STRING Piccolo 4312
init.version T_STRING 2.41
init.macAddress T_STRING 00:0d:f:
init.manufactHardware T_STRING
init.manufactVendor T_STRING
init.manufactDate T_STRING
init.lHydraServerPort T_STRING 8080
init.lHydraServerAddress T_STRING 192.168.12.99
init.BigHydraServerAddr T_STRING 64.1.254.116
init.lightHydraMacUpdate T_STRING yes
init.startService_xapp T_STRING no
init.startService_FTP T_STRING yes
                    
```

License

License Key	<input type="text" value="XXXXXXXXXXXXXXXXXXXXXXXXXXXX"/>
-------------	---

About

Product	<input type="text"/>
Version	<input type="text"/>
Build date and time	<input type="text"/>

# CUSTOMER SUPPORT

For the nearest ViewSonic® service provider, see the table below or contact your reseller. You will need the product's serial number on-hand when you call.

<b>Country/Region</b>	<b>Website</b> (may have email address also)	<b>Phone</b> <b>Fax</b>
United States	viewsonic.com	Phone: 800-688-6688 Fax: 909-468-1202
Canada	viewsonic.com	Phone: 866-463-4775 Fax: 909-468-5814
United Kingdom	viewsoniceurope.com	Phone: 0800-833-648 Fax: 0179-450-0801
Europe, Middle East, Baltic countries, and North Africa	viewsoniceurope.com	Contact your reseller
Australia and New Zealand	viewsonic.com.au	Phone: 61-2-9929-3955 Fax: 61-2-9929-8393
Singapore/India and Southeast Asia	viewsonic.com.sg	Phone: 65-273-4018 Fax: 65-273-1566
Taiwan	viewsonic.com.tw	Phone: 866-2-2246-3456 Fax: 866-2-8242-3733
Other Asia Pacific countries		Contact your reseller
South Africa	viewsonic.com/asia	Phone: 886-2-2246-3456 Fax: 886-2-8242-3668

# SPECIFICATIONS

	Resolution	Hz	HDMI	Component	S-Video/ CVBX
Resolution*	640 x 480	60	X		
		75	X		
	800 x 600	60	X		
		75	X		
	1024 x 768	60	X		
		75	X		
	1280 x 1024	60	X		
		75	X		
	1280 x 768	60	X		
		75	X		
	1360 x 768	60	X		
		75	X		
	CEA 480p			X	X
CEA 720p			X	X	
CEA 1080i			X	X	
NTSC-M					X
Screen Rotation	Landscape, Portrait (+90°, -90°)				
Local Storage	2 GB				
Connectivity	Display:	HDMI, Component, S-Video, Composite			
	Audio Output:	RCA stereo analog			
	Network:	1 x 10/100 Ethernet			
	USB:	1 x USB port for storage only (not for HIB devices)			
	I/O:	RS-232			
Weight	Gross:	1.7 lbs (0.77 kg)			
	Net:	1.0 lb (0.45 kg)			
Power	Input: 100 ~ 240 VAC 50/60 Hz Output: 5 VDC (max.)				
Pre-loaded Software	Web browser with Flash Plug-in, Standalone Flash Player, HD Media Player				
Streaming Protocols (included but not limited to)	HTTP, UDP, RTP, IP/TV, local file playback				
Decoding	Video:	MPEG-1, MPEG-2, MPEG-4, Macromedia® Flash™			
	Audio:	MPEG-1, (layers 1 & 2), MP3, WAV			
Image File Formats	JPEG, PNG				
Scanning Format	SDTV 480i, EDTV 480p, HDTV 720p, 1080i				
Network Management	Web-based, Telnet, ViewSonic Administration Server, TAS, Cisco ACNS supported				
Memory	RAM (128 MB): FLASH (64 MB)				
Flexible Clip Sequencing	Playlist, Schedule, Multicast, Unicast, VOD				
Environmental Conditions	Operating temperature:	10° ~ 40° C (50° ~ 104° F) recommended			
	Humidity	20~85% RH (non-condensing)			
	Storage temperature:	0° ~ 60° C (32° ~ 140° F)			
	Humidity	5 ~ 85% RH (non-condensing)			
Dimensions	7" (W) x 5.1" (H) x 1.6" (D) 178 mm (W) x 130 mm (H) x 41 mm (D)				
Regulatory Approvals	FCC-15B, CE, IC-ES003B, UL/c-UL, CB, BSMI, RoHS				

\*X indicates supported resolution. Specifications are subject to change without notice. Corporate names and trademarks stated herein are the property of their respective companies

## LIMITED WARRANTY

Please go to the Customer Support table in this guide for the ViewSonic website in your region to get warranty information.

**ViewSonic<sup>®</sup>**  <sup>®</sup>  
*the choice of professionals*