User Guide

NMP-500

Network Media Player (NMP)



the choice of professionals

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	For Your Records	
Product Name:	Network Media Player (NMP)	
Model Name:	NMP-500	
Model Number:	VS11253	
Document Number: Serial Number: Purchase Date:	NMP-500_UG_ ENG_Rev1B 	14 June 2006

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INTRODUCTION

Thank you for buying the ViewSonic® Network Media Player. This section introduces you to the NMP-500.

Packaged Contents

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





DVI-VGA Adapter



ViewSonic CD



NMP-500







AC Power Adapter

Quick Start Guide

Requirements

The NMP-500 requires the following:

System Requirements

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

PC Requirements

- 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
- Display: 1024 x 768 pixels or greater
- Network Interface: 100Base-TX
- CD-ROM drive

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 the remote PC that would typically run and drive a plasma or LCD for digital signage
- Network ready for easy installation
- Ready to handle many layers of high-quality graphics, text, and video with integrated Internet Explorer browser, Flash player, and HD player integrated
- Powerful hardware processor for robust and smooth playback of high-definition and Flash content
- Supports a variety of graphics and video formats including full-color, JPEG, Macromedia Flash, and HTML
- MPEG1, MPEG2, MPEG4, WAV support
- Built on open standards to support a wide variety of other vendors' PDPs, LCDs and projectors and it integrates with a multi-vendor networking environment
- Efficient and cost effective solution for digital signage
- Devices can be remotely controlled with a user-friendly web interface from virtually anywhere on a network or the Internet
- Can be managed with Tivella Administration Server (TAS) software and Cisco ACNS software
- Included remote control allows you to make adjustments and see valuable info without having to be in close proximity to the device
- Display content in landscape or portrait mode

Two Modes of Communication

There are two modes of communication with the **NMP-500**: an HTTP web interface and a Telnet advanced command line interface. This document focuses on the web interface only. Web-based interface is executed using the HTTP protocol.

To start communicating with the **NMP-500**, follow the step-by-step instructions in the section called **SETTING UP THE NMP-500** in this guide.

Two Modes of Operation

Standalone

This setup allows the **NMP-500** to act as an independent network device used to control a Plasma Display Panel (PDP) or a Liquid Crystal Display (LCD) for digital signage or narrowcasting applications.



TAS Managed

You can purchase TAS separately through Tivella (www.tivella.com or a Tivella dealer/ reseller). A TAS server should be used to configure and manage multiple **NMP-500**s remotely. TAS provides centralized scheduling of video content presentation on multiple **NMP-500**s, 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-500** are connected to the network (LAN/WAN) with the TAS acting as a manager for multiple **NMP-500**s.



Front View



Blue LED: Power

Green LED: Activity

Back View



Remote Control



SETTING UP THE NMP-500

IMPORTANT! BE SURE TO CONFIGURE THE NMP-500 BEFORE CONNECTING TO THE NETWORK!

1. Connect NMP-500 to PC

Use an Ethernet cable to connect the **NMP-500**. Use the AC power adapter included to connect the **NMP-500** to an AC power source like a wall outlet.



2. Manually Configure your PC

Using Windows XP, click the **Windows Start** button in the task bar > right-click on **My Network Places** > select **Properties** > right-click on the **Network Connection** associated with your **Network Adapter** and select **Properties** > click **Internet Protocol (TCP/IP)** and click **Properties**.

Enter a **Static IP Address** for example 192.168.12.x, in the same range as the **NMP-500**.

3. Login

Open an Internet Browser, i.e., **Internet Explorer**. In the **URL address field**, type in the default IP address of the **NMP-500** (192.168.12.100) > press **Enter**. The **Login** screen appears. Type in the default **Login** and **Password**.

Login:	admin
Password:	admin

For security purposes, we recommend that you change the default IP address, Login and Password. *For more information, see the Security section in this user guide.*

After logging in successfully, the **Network Configuration** screen appears. **Note:** The **NMP-500** automatically logs you out after fives minutes of inactivity.

For information on how to change network settings on an OS other than Windows, please consult the OS user guide or your Network Administrator.

4. Connect the NMP-500 to a Display

Connect the **NMP-500** to a display such as a Plasma Display Panel (PDP) or a Liquid Crystal Display (LCD).



By default, the video output is set to S-Video. But, you can choose one of the following connections if you prefer:

- **S-Video**: Default. Connect an S-Video cable from the S-Video interface on the back of the **NMP-500** to the S-Video interface on the back of the display.
- **DVI** Connect a DVI cable from the back of the **NMP-500** to the DVI interface on the back of the display.
- VGA: Using the DVI-VGA adapter included, connect a VGA cable from the VGA interface on the back of the NMP-500 to the VGA interface on the back of the display (PDP or LCD). Note: do not use both a VGA connection and a YPbPr connection at the same time.

Component: Using the S-Video/YPbPr adapter.

Composite: Using an RCA cable.

Click the **Show IP** button shown below. The **IP address** appears on-screen momentarily then disappears after about four seconds. If the **IP address** does not appear, check that the **NMP-500** and the display are set to the same video output settings: i.e., S-Video to S-Video, or VGA to VGA, etc. To change the output setting, login to the **NMP-500** (Step 3) and select **Management** > **Video/Audio** for the screen shown below. *For more information, see the Video/Audio Configuration section later in this guide.*

▼	Video/Audio	Configuration
Show IP Video Browser	TV mode	HDMI_720p60
Management	Brightness	
Startup		-
Browser VNC client	Contrast	[128
Video/Audio TAS FTP server	Saturation	
System services Actions	Audio Channel Volume (left)	
Video multicast Video HTTP Playlist VNC client	Audio Channel Volume (right)	
Go to URL		<u> </u>
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		

- 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 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, click the **Administration** menu > click **Save Configuration** > click **Save**.

6. 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-500**. To go to the **Network Configuration** screen after logging into the **NMP-500**, select **Management** > **Startup**. The **Startup URLs** screen and the **Network Configuration** screen appears as shown below.

Displays the IP address		
Displays the Video so Displays the Br	ource owser	
	Startup) URLs
Show IP Video Browser	Video	
Management	Browser	http://www.viewsonic.com
Startup Browser	Network Co	nfiguration
VNC client	MAC address	00:0f:44:00:00:01
TAS	DHCP	Disabled 💌
FTP server System services	IP address	192.168.12.103
Actions	Subnet mask	255.255.255.0
Video multicast	Default gateway	192.168.12.1
Playlist	DNS server IP address	192.168.12.1
VNC client Transparency Go to URL	Api	ply
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

- 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**, **Gatewa**y, 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, click the **Administration** menu > 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. Click **Management** > **Browser**. The screen shown below appears. Note: 1 millisecond = 1/1000th second.

	Browser Co	onfiguration
Show IP Video Browser	Macromedia Flash Acceleration	Disabled 💌
Management	Macromedia Flash Transparency Source	Browser 💌
Startup	Screen rotation angle (clockwise)	0 💌
Browser VNC client	Browser Proxy	Disabled 💌
Video/Audio TAS	Browser Proxy IP	
FTP server System services	Browser Proxy PORT	0
Actions	Default transparency between OSD and video layer. 0-255	128
Video multicast Video HTTP	Start screen display time (millisecs)	5000
Playlist VNC client	Screen Height	768
Transparency Go to URL	Screen Width	1366
Administration	Ap	ply
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

- 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 pulldown menu for the angle of rotation of the HTML content displayed on-screen. This feature is useful when the **NMP-500** is installed vertically.

- 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, click the **Administration** menu > click **Save Configuration** > click **Save**.

VNC client

The VNC client configuration screen shown below on the Management menu lets you set the device to start as a VNC client and connect automatically to the VNC server specified. This auto-start feature works only if the VNC client under System services is set to YES or Enabled.

VNC server password must be at least 6 characters (can be alpha-numeric).

X and **Y** coordinates let you set the size of the window of the remote desktop displayed if full screen is not desired.

VNC full screen mode lets you set the client to start up as full screen all the time.

VNC auto restart mode reconnects the client in the event of network interruption.

Delay before restart VNC sets the time between reconnects.

	VNC client configuration	
Show IP Video Browser	VNC server address	
Management	VNC server password	
Startup	X coordinate of VNC windows left-top corner	
Browser VNC client	Y coordinate of VNC windows left-top corner	
Video/Audio TAS	VNC full screen mode	
FTP server System services	VNC auto restart mode	
Actions	Delay (in milliseconds) before restart VNC 5000	
Video multicast Video HTTP Playliat VNC client Transparency Go to URL	Apply	
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

Video/Audio Configuration

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

	Video/Audio Configuration	
Show IP Video Browser	TV mode	HDMI_720p60
Management	Brightness	
Startup Browser VNC client	Contrast	
Video/Audio TAS FTP server	Saturation	128
Actions	Audio Channel Volume (left)	
Video multicast Video HTTP Playlist VNC client Transparency	Audio Channel Volume (right) Ap	ply
Go to URL		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

- 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, click the **Administration** menu > 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 or through an authorized Tivella dealer/reseller.) Click **Management** > **TAS**. The screen shown below appears.

	TAS Configuration			
Show IP Browser	Timeout	(sec)	20	
Management	IP Ac	idress	tas-intranet	
Startup Browser		Ap	ply	
VNC client Video/Audio				
TAS				
FTP server				
System services				
Actions				
Video multicast				
Video HTTP Playlist				
VNC client				
Transparency				
Go to URL				
Administration				
Advanced video				
Security				
Save configuration				
Default settings				
Keboot				
riniware				
Help				
Status				
License				
About				

- 1 In the **Timeout (sec)** field, type the number of seconds for the **NMP-500s** to access TAS.
- 2 In the **IP Address** field is a valid DNS name automatically generated by TAS when connected to a network but empty when used as a standalone.
- 3 If any changes were made to this screen, do the following:
 - To enable the changes, click **Apply**
 - To save the changes, click the **Administration** menu > click **Save Configuration** > click **Save**.

NOTE: FTP server is only for Network Displays with local 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. Click **Management** > **System services**. The screen shown below appears.

	System Services Configuration	
Show IP Video Browser	Network Media Player (port 6666)	
Management	MIB Event Notification No 🔽	
Startup Browser VNC client	Apply	
TAS FTP server System services		
Actions		
Video multicast Video HTTP Playlist VNC client Transparency Go to URL		
Administration		
Advanced video Security Default settings Reboot Firmware		
Help		
Status License About		

- 1 In the **Network Media Player (port 6666)** field, select **Yes** to access the **NMP-500** 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-500** settings.
- 3 If any changes were made to this screen, do the following:
 - To enable the changes, click Apply
 - To save the changes, click the **Administration** menu > click **Save Configuration** > click **Save**.

ACTIONS

This section mainly concerns video related activities. Video can be streamed by UDP, RTP, IP/TV or HTTP stream 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 OSD or go to a specific URL on the fly.

Video Multicast

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

		Video mu
Show IP Video B	trowser	IP address
Management		Port
Startup Browser VNC client Video/Audio TAS FTP server System services		Start
Actions		
Video multicast Video HTTP Playllat VNC client Transparency Go to URL		
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

- 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 HTTP

To get to the browser setup screen, click **Actions** > **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://eserver.ips/file.mpg).
- 2 To tell the system to listen to the HTTP stream from the entered URL, click **Start**.

Playlist

To stream existing video **Playlist**s on an HTTP server, click **Actions** > **Playlist**. The screen shown below appears.

	Play
Show IP Video Browser	URL
Management	Start
Startup	
Browser	
VNC client	
Video/Audio	
TAS	
FTP server	
System services	
Actions	
Video multicast	
Video HTTP	
Playlist	
VNC client	
Transparency	
Go to URL	
Administration	
Advanced video	
Security	
Save configuration	
Default settings	
Reboot	
Firmware	
Help	
Status	
License	
About	

- 1 In the **URL** field, type the URL that corresponds to the **Playlist** to appear on the display (for example, http://192.168.12.x/playlist.txt or, type the address to start playback such as http://<server-ip>/playlists.pls).
- 2 To tell the system to listen to the **Playlist** from the entered URL, click **Start**.

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-500** 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."

VNC client

The VNC (Virtual Network Computing) client screen allows you to connect and display a remote desktop running a VNC server.

	WNC client
Show IP Video Browser	VNC server
Management	Password
Startup Browser VNC client Video/Audio TAS TTP server System services	Start Stop
Actions	
Video multicast Video HTTP Playliat VNC client Transparency Go to URL	
Administration	
Advanced video Security Save configuration Default settings Reboot Firmware	
Help	
Status License About	

- 1 In the **VNC server** field, type the IP Address of the VNC server.
- 2 In the **Password** field, type the password of the VNC server whose IP is entered above. **IMPORTANT!** The password must be at least six (6) characters (can be alpha-numeric).
- 3 To display the remote desktop click **Start**.

Transparency

To change the transparency of the browser on-screen in relation to the video image in the background, click **Actions** > **Transparency**. The screen shown below appears.

	Transparency
Show IP Video Browser	Transparency between OSD and video layer. 0-255 255
Management	Apply
Startup Browser VNC client Video/Audio TAS ETP server	
System services	
Actions	
Video multicast Video HTTP Playlist VNC client Transparency Go to URL	
Administration	
Advanced video Security Save configuration Default settings Reboot Firmware	
Help	
Status License About	

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 (user interface) so you can still see through the browser OSD (On-Screen Display) 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-500**, click **Apply**.

Go to URL

To go to a web page on the browser, click **Actions** > **Go to URL**. The screen shown below appears.

	Go t
Show IP Video Browser	URL
Management	G
Startup	
Browser	
VNC client	
Video/Audio	
TAS	
FTP server	
System services	
Actions	
Video multicast	
Video HTTP	
Playlist	
VNC client	
Transparency	
Go to URL	
Administration	
Advanced video	
Security	
Save configuration	
Default settings	
Reboot	
Firmware	
Help	
Status	
License	
About	

- 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.

ADMINISTRATION

Advanced Video Configuration

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

	Advanced video Configuration	
Show IP Video Browser	X of destination window	2048
Management	Y of destination window	2048
Startup	Width of destination window	4096
Browser VNC client	Height of destination window	4096
Video/Audio TAS FTP server System services	Ар	ply
Actions		
Video multicast Video HTTP Playllat VNC client Transparency Go to URL		
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

- 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, click the **Administration** menu > click **Save Configuration** > click **Save**.

Security

To change the **User name** and **Password** of the **NMP-500**, click **Administration** > **Security**. Current settings automatically appear in each field as shown below: default User name/Password is admin/admin.

	Security Credentials	
Show IP Video Browser	User name	admin
Management	Password	*****
Startup	Repeat password	*****
Browser VNC client Video/Audio TAS	Ар	ply
System services		
Actions		
Video multicast Video HTTP Playliat VNC client Transparency Go to URL		
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

- 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, click the **Administration** menu > click **Save Configuration** > click **Save**.

Save Configuration

To save your settings on the **NMP-500**, click **Administration** > **Save Configuration**. The screen shown below appears. Click **Save**.

	Save Configuration	
Show IP Video Browser	Save	
Management		
Startup Browser VNC client Video/Audio TAS FTP server System services		
Actions		
Video multicast Video HTTP Playlist VNC client Transparency Go to URL		
Administration		
Advanced video Security Save configuration Default settings Reboot Firmware		
Help		
Status License About		

Default Settings

To restore the **NMP-500** back to factory settings, click **Administration** > **Default Settings**. The screen shown below appears. Click **Restore**. User-defined settings will be lost.

	Restore default settings
Show IP Video Browser	Restore
Management	
Startup Browser VNC client Video/Audio TAS FTP server System services	
Actions	
Video multicast Video HTTP Playliat VNC client Transparency Go to URL	
Administration	
Advanced video Security Save configuration Default settings Reboot Firmware	
Help	
Status License About	

Reboot

To reboot the **NMP-500**, click **Administration** > **Reboot**. The screen shown below appears. Click **Reboot**. The **NMP-500** reboots.

Show IP Video Browser
Management
Startup Browser VNC client Video/Audio TAS TFP server
System services
Actions
Video multicast Video HTTP Playliat VNC client Transparency Go to URL
Administration
Advanced video Security Save configuration Default settings Reboot Firmware
Help
Status License About

Firmware Upgrade

To upgrade the firmware on the **NMP-500**, click **Administration** > **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-500**. To show the **Status** log, click **Help** > **Status**. The screen shown below is for information only (no inputs).

	Device status
Show IP Video Browse	I init.License ro T_STRING Y
Management	init.License T_STRING 000F8800001049903A6A1F5492C0607A
rungement	init.DefaultFactorySetup T_STRING SETUP NUMBER_2 NUMBER_9
Startup	init.build T_STRING Mon Feb 20 10:01:18 PST 2006
Browser	init.model name T STRING NMP-500
Video/Audio	init.product T STRING NMP-500
TAS	init.version T STRING 2.00-RC6
FTP server	init.macAddress T STRING 00:0f:
System services	init.manufactHardware T STRING
	init.manufactVendor T_STRING
ACTIONS	init.manufactDate T_STRING
Video multicast	init.HydraServerPort T STRING 8080
Video HTTP	init. HydraServeriddress T STRING 192.168.12.99
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Reboot	Init.startService_F3232_I_SIRING no
Firmware	init.startService_Kbd T_STRING yes
Help	init.startService_api T_STRING no
	init.startService_vtl T_STRING no
Status	init.startService_pickch T_STRING no
About	init.startService_sigma T_STRING yes
Hoodt	init.startService_sinfo T_STRING yes
	init.startService_smb T_STRING yes
	init.startService_mibevt T_STRING no
	init.startService_mibifc T_STRING yes
	init.startService_mib T_STRING yes
	init.startService_shell T_STRING yes

License

To activate the license on the **NMP-500**, click **Help** > **License**. The **License Key** may appear automatically in the screen shown below (read-only).

	License				
Show IP Video Browser	License Ke y	****			
Management					
Startup Growser /NC client /ideo/Audio TAS TP server System services					
Actions					
Video multicast Video HTTP Playlist VNC client Transparency Go to URL					
Administration					
Advanced video Security Save configuration Default settings Reboot Firmware					
Help					
itatus icense ibout					

About

-

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

	Abo
Show IP Video Browser	Product
Management	Version
Charles	Build date and time
Startup Browser VNC client Video/Audio TAS FTP server	
System services	
Actions	
Video multicast Video HTTP Playliat VNC client Transparency Go to URL	
Administration	
Advanced video Security Save configuration Default settings Reboot Firmware	
Help	
Status License About	

APPENDIX

CUSTOMER SUPPORT

For the nearest ViewSonic® service provider, see the table below or contact your reseller.

Country/Region	Website	T = Telephone		
	(for email address also)	F = FAX		
United States	viewsonic.com	T: (800) 688-6688		
		F: (909) 468-1202		
Canada	viewsonic.com	T: (866) 463-4775		
		F: (909) 468-5814		

You will need the product's serial number on-hand when you call.

COMPLIANCE AND SAFETY NOTICES

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.

Radio frequency interference (RFI) compliance

United States compliance notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation (distance) between the equipment and the receiver.
- Connect the equipment into an outlet on a different circuit than what the receiver is connected to.
- Consult the dealer or an experienced radio or television technician for help.

CAUTION: The Part 15 radio device operates on a non-interference basis with other devices operating at its frequency. Any changes or modification to said product not expressly approved could void the user's authority to operate this device.

FCC CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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:

CE

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

RoHS compliance notice

This product is RoHS compliant.



Screens

Management

Show IP Video Note Hanagement Browser http://www.wemonic.com Startup NetVords.Configuration Browser NetVords.Configuration VAC cleft NetVords.Configuration VAC cleft NetVords.Configuration VAC cleft Disabled 192:160:12103 Actions 192:160:12103 192:160:12103 Actions Disabled with 192:160:12103 192:160:12103 Video HTP Default gateway 192:160:121 Video HTP Default gateway 192:160:12.1 Conditional Video Second gateway 192:160:12.1 192:160:12.1 Advanad video Second gateway Default gateway 192:160:12.1 Second gateway Default gateway 192:160:12.1 Advand video Second gateway Browser Proxy Dealders 192:160:12.1 Second gateway Default gateway 192:160:12.1 192:160:12.1 Advance Wideo Second gateway Browser Proxy Dealders 192:160:12.1 192:160:12.1 Second gateway Browser Proxy Dealed Wideo Second gateway Income Second gateway Income Second gateway Statug Browser Pr
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idde Default gateway 92.169.12.1 VNC clert DNS server IP address 192.169.12.1 Catal Catal Apply Apply Advanced Video Security Apply Security Macromedia Flash Acceleration Disabled w Default stration Browser Canfiguration Default strations Macromedia Flash Acceleration Disabled w Reboxit Browser Proxy Disabled w Status Browser Proxy Disabled w License Browser Proxy Dott 0 About Browser Proxy Dott 0 Default transparency between OSD and vide layer; 128 Status Status 5000 License Status 5000 Status Status 5000 VNC server address 0 VNC server address VNC server address 0 VNC server address VNC cator server password 0 0 VNC auto restart mode No w VNC full screen mode VNC auto restart mode No w 0 0
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Delay (in milliseconds) before restart VNC 5000
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Video / Andio Configuration
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TV mode HDMI_720p60 -
Brightness
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Saturation 128
Audio Channel Volume (left)
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Apply TAS Configuration
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Apply TAS Configuration Timeout (sec) IP Address tas-intranet
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Actions



Administration

-

	Advanced video Configuration		
Show IP Video Browser	X of destination window	2048	
Management	Y of destination window	2048	
Startup	Width of destination window	4096	
Browser VNC client	Height of destination window	4096	
Video/Audio	Ap	ply	
FTP server			
System services			
Video multicast	Security C	Credentials	
Video HTTP Devidet	User name	tivella	
VNC client	Password	****	
Go to URL	Repeat paccword	******	
Administration	Repeat password		
Advanced video	Ap	ply	
Save configuration			
Reboot	Save Con	figuration	
Firmware	Save		
Help			
License	Restore def	ault settings	
About		tore	
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	Pak	anat [
	E innou and	a Hoomado	
	Firmware		
	Image file	Browse	
	Start u	Ipgrade	

Help

	Device status				
	Init.License_ro T_STRING Y Init.License T_STRING 000F8800001049903A6A1F5492C0607A Init.License T_STRING SETUP NUMBER 2 NUMBER 9				
Startup Growser //NC client /ideo/Audio TAS TP server System services	init.build TSTRING Hon Peb 20 10:01:18 PST 2006 init.model_name TSTRING NMP-500 init.product TSTRING NMP-500 init.version TSTRING 2.00-RC6 init.manufactHardware T_STRING 00:0f:				
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Ab	out
Product	
Version	
Build date and time	

Specifications

	Resolution	Hz	DVI	VGA	Comp- onent	S-Video/ CVBX	
	C40 x 400	60	Х	Х			
	040 X 400	75	Х	Х			
	800 x 600	60	Х	Х			
	800 X 800	75	Х	Х			
	1004 y 769	60	Х	Х			
	1024 X 700	75	Х	Х			
	1090 v 1004	60	Х	Х			
Resolution	1280 X 1024	75	Х	Х			
	1000 × 700	60	Х	Х			
	1280 X 768	75					
	1000 × 700	60	Х	Х			
	1360 X 768	75					
	CEA 480p		Х	Х	Х		
	CEA 720p		Х	Х	Х		
	CEA 1080i		Х	Х	Х		
	NTSC-M					Х	
Screen rotation	Landscape, Portrait (+90°, -90°)						
Outer Dimensions	7" x 5.1" x 1.6"						
Weight	Gross: 1.6 lbs Net: 0.9 lbs						
Interfaces	10/100 Ethernet, RCA Video, Component Video – through S-Video Adapter, S-Video, CVBS (Composite Video), DVI/VGA, (VGA – through an adapter with DVI port) RCA Audio left, RCA Audio Right, S/PDIF, Optical						
Power	Voltage DC 5V (max.), 100-240VAC						
Pre-loaded software	Web browser with Flash Plug-in, Standalone Flash Player, HD Player						
Streaming protocols (included but not limited to)	Multicast, HTTP, IP/TV, Playlists						
Decoding	Video: MPEG-1, MPEG-2, MPEG-4, Macromedia [®] Flash™ Audio: MPEG-1, (layers 1 & 2), MP3, WAV, Dolby AC-3 pass-through						
Image file formats	JPEG, PNG						
System Memory	Main RAM: 128MB, Main FLASH: 32MB, Sigma RAM: 64MB						
Environmental Conditions	Operating temperature:10° ~ 40° C (50° ~ 104° F) recommendedHumidity20~85% RH (non-condensing)Storage temperature:0° ~ 60° C (32° ~ 140° F)Humidity5~85% RH (non-condensing)				nded		
Dimensions	7" (W) x 5.1" (H) x 1.6 "	(D); 178 mi	m (W) x 13	30 mm (H) x 25 mm	(D)	
Regulatory approvals	FCC-15B, IC-ES003B, UL/c-UL, CB						

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

ViewSonic[®] Limited Warranty Terms and Conditions (Current Production Models. U.S.A. and Canada Only)

How the Viewsonic Standard Limited Warranty works:

ViewSonic Corporation ("ViewSonic") warrants its products to be free from defects in material and workmanship during a specified length of time, or "Warranty Period", as indicated below. If a product proves to be defective in material or workmanship during the Warranty Period, ViewSonic will, at its sole option, repair or replace the product with a similar product. Replacement products or parts may include remanufactured or refurbished parts or components. The replacement product will be covered by the balance of the time remaining on the customer's original ViewSonic Limited Warranty. This warranty does not cover any software included with the product.

ViewSonic products are manufactured using new materials or new and used materials equivalent to new in performance and reliability. Spare parts may be new or equivalent to new. Spare parts are warranted to be free from defects in material or workmanship for the remainder of the Limited Warranty Period under proper and/or normal use of the ViewSonic Product in which they are installed.

During the Limited Warranty Period, ViewSonic will, at its sole discretion, repair or replace the defective component parts or the ViewSonic product. All component parts or hardware products removed under this Limited Warranty become the property of ViewSonic. In the unlikely event that your ViewSonic Product has a recurring failure, ViewSonic will, at its sole discretion, provide you with a replacement unit of ViewSonic's choosing that is similar or equivalent to your ViewSonic originally purchased product in hardware and/or performance.

How long the warranty is effective:

ViewSonic warrants that its hardware will be free from defects in workmanship and materials, under proper normal use, and as set forth below:

- · Hardware and Power Supplies: One (1) Year
- Accessories, spare parts, and spare kits: Ninety (90) days

The Warranty Period will begin on the date of purchase, and remain effective as specified above. Proof of purchase and/or receipt will be required for all claims purposes.

Exclusions of Warranty:

The following will immediately and automatically render any and all warranties and/or guarantees, including but not limited to the ViewSonic Limited Warranty, as void:

- 1. Any product on which the serial number has been defaced, modified or removed.
- 2. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, and/or failure to follow instructions as prescribed by ViewSonic.
- 3. Repair or attempted repair by someone other than a ViewSonic Licensed Technician.
- 4. Any damage resulting from shipments not made and/or insured by ViewSonic, and/or shipments made by ViewSonic for which recipient failed to notify ViewSonic of the damage claim within 48 hours upon receipt.

- 5. Removal and/or installation of any components not intended or prescribed by ViewSonic.
- 6. Causes external to the product, such as electric power fluctuations and/or failure.
- 7. Normal wear and tear.
- 8. Damage to, or abuse of, the coating on the surface of the display, including but not limited to cosmetic defects that do not affect functionality.
- 9. Any other cause which is not related to a manufacturer's defect.
- 10. Loss of, or damage to, the covered product due to mishandling, improper packaging by you, alteration, accident, electrical current fluctuations or failure to follow operating, maintenance or environmental instructions prescribed in the covered product's User Manual. In the event that ViewSonic determines, in its sole discretion, that the return product is damaged due to one or more of these excluded causes, the customer will be billed for the cost of repairs.
- 11. ViewSonic will not be responsible for any damage to, loss of, or consequential loss from the inability to use, any programs, data or other information stored on any media or any part of any Product serviced hereunder. ViewSonic makes no representations or warranties whatsoever to keep confidential or secure any data stored on any media or any part of any Product serviced hereunder. ViewSonic will not be responsible for and hereby disclaims any and all liability for damage or loss to software, data, Programs, removable media, consumables, portable docking stations, carrying cases, or non-ViewSonic-branded products such as joysticks, printers, and/or scanners, that may occur as a result of repairs to, and/or by the replacement of any defective product. In order to avoid any and such losses or damages, please make a back-up of any and/or all data(s) and Programs before returning your product to ViewSonic for replacement and/or repair(s).
- 12. Image burn-in and/or defective pixels/sub-pixels are not considered a manufacturer's defect. For a complete review of the details regarding the industry standard methodology ViewSonic uses to determine defective pixels/sub-pixels please visit our on-line Customer Support database at http://www.viewsonic.com/support/qa.cfm?topic=lcd&question=01.

Limitation of Implied Warranties

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Limitations of Liability:

VIEWSONIC'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. VIEWSONIC EXPRESSLY DISCLAIMS ANY AND ALL LIABILITY FOR DELAYS IN SHIPPING AND/OR ANY RESULTING DAMAGE(S) DUE TO LOSS OF USE FOR ANY AND ALL REASONS. IN NO EVENT WILL VIEWSONIC CORPORATION, AND ANY AND ALL OF ITS PRESENT, FORMER AND FUTURE REPRESENTATIVES BE LIABLE FOR SPECIAL INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES RELATING DIRECTLY OR INDIRECTLY TO THIS AGREEMENT. FURTHER, VIEWSONIC WILL NOT BE LIABLE FOR LOSS OF THE USE OF PRODUCT, LOSS OF DATA, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS OR OTHER COMMERCIAL LOSS, REGARDLESS OF WHETHER ADVISE VIEWSONIC IS ADVISED OF OR SHOULD HAVE KNOWN ABOUT THE POSSIBILITY OF SUCH DAMAGES.

How to get service:

- 1. For information on obtaining warranty service, call your ViewSonic dealer/reseller.
- 2. To obtain warranty service, please contact ViewSonic Customer Support for a Return Authorization number (RMA). You will be required to provide
 - A. A copy of the dated sales slip.
 - B. Your name.
 - C. Your address.
 - D. The serial number of the product.
 - E. A description of the problem.
 - F. Mobile and wireless products, customer should provide the user name and the password or disable password protections in order to allow ViewSonic access to the device for the performance of warranty service.
- 3. Bring or ship the product prepaid in the original container, with the associated accessories, to ViewSonic or any ViewSonic authorized service center.
- 4. For additional information or the name of the nearest ViewSonic service center, contact your ViewSonic dealer/reseller or ViewSonic.

NOTE: ViewSonic is not responsible for any returned product without an assigned RMA.

Sales outside the U.S.A. and Canada:

For ViewSonic products sold outside the U.S. and Canada, contact your ViewSonic dealer/reseller

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

LIMITED WARRANTY (V1.0)

Release Date: 1 May 2006



the choice of professionals