

prodigi

1080P HD MEDIA PLAYER

USER'S MANUAL



PD-100N



Index

Introduction	4
Package Contents	4
Product Overview	5
Panel Front side	5
Panel Back side	5
Remote Control	6
Connect.....	7
Setup.....	8
Initial setup	8
Setup Menu	9
Multimedia Jukebox	16
Playback the media files in the USB storage	16
The first page	16
Movie	17
Subtitle display.....	19
Resume Play.....	19
Playback search.....	20
Music	20
Photo	22
Thumbnail preview.....	22
Slide show with Music.....	23
Zoom in and pan the focus.....	23
Rotating the photo.....	23
Browse the folder of digital camera.....	23
All.....	24
Edit the media files.....	25
Rename	25
Delete	25
Playlist.....	26
Network player	28
Setup the IP Address	28
Setup the IP Address for PC manually	28
Check the computer name and the workgroup for PC	31
Setup the share folder on PC.....	34
Browse and play the media on your PC.....	35
My Shortcuts	38

UPnP player	40
The setup for Windows XP	40
Windows Media Player 11 Setup (on Windows XP/Vista)	42
Import the media files on Windows Media Player 11	44
Browse through UPnP	44
NAS function	45
Enabling NAS function	45
Access NAS function	46
Maintenance	48
Reset the device	48
Power on/Standby time	48
Battery	48
Black screen	48
Can't use Thumbnail function	48
Can't see subtitle through UPnP playback	48
Can't playback the video	48
Can't playback the audio in the Movie	49
Connect DVI to HDMI converter	49
Smooth playback through Ethernet/Wireless LAN	49
TV Overscan issue	49
Video/Audio codec support for PD-100N	50
Specification	52

Introduction

PD-100N is a powerful media player which truly decodes, playback and outputs High Definition 1080p in the market. Through the USB 2.0 port and the HDMI interface, PD-100N playback the HD MPEG2, HD VC-1, HD AVC/H.264 movie or transport stream from the USB flash drive or hard disk drive to HDTV screen. The Network function allows you to browse the video file in your PC, NAS which is in your room and play it on TV in the living room.

Feature Highlight :

- Decode and output High Definition 1080p video and Photo.
- Support Mainstream formats of HD video including MPEG-2, VC-1, H.264/AVC and RMVB HD.
- Within the next generation interface—HDMI 1.3 output.
- Ethernet port supports Network player function.
- High performance video playback. Experience fluent playback control like Zoom out/in, Pan the picture, Fast Forward, Fast Reverse, Slow-motion.
- Fully supports the subtitle format. Dynamically change the subtitle display by remote control.
- Photo playback via HD. Supports Up to 4 mega-pixel photo files, 16X Zoom in, 3-direction rotation.
- Slide show mode with 8 kinds of transition effect. Background music playback is supported.
- Rich types of music file. The playback function includes Fast Forward, Fast Reverse, Repeat, Shuffle and Shuffle Repeat.
- Within USB 2.0 port, plug-and-play the USB Flash Drive, USB Mobile Hard Disk Drive , USB Card Reader, USB Wi-Fi Dongle.
- Supports all most all formats of HDD and has the most interchangeability.
- Easy to use and intuitive control. Change to setup menu at any time even in media playing to provide the fluent control.

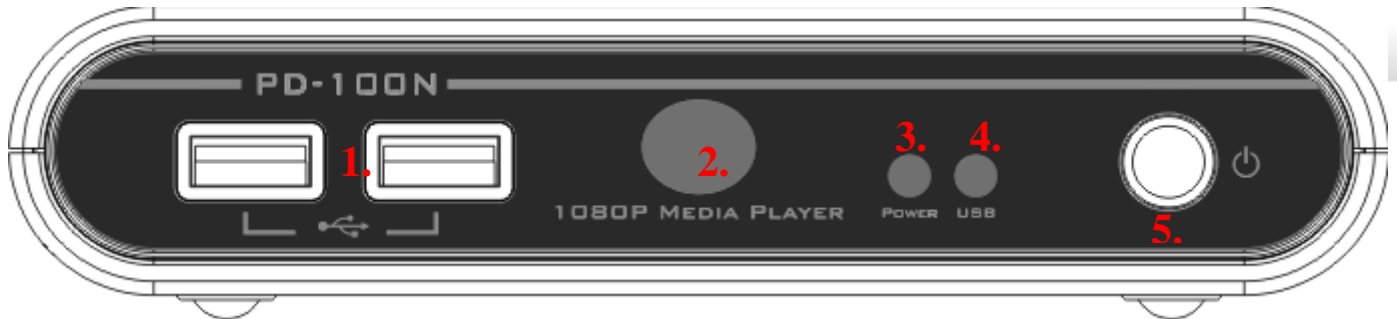
Package Contents

Please check the parts in the package. Contact the distributor if something is missing.

1. One PD-100N HD Media Player
2. One power adapter
3. One remote control unit
4. Two AAA batteries
5. One RCA cable
6. One quick installation guide
7. This User's manual
8. One warranty

Product Overview

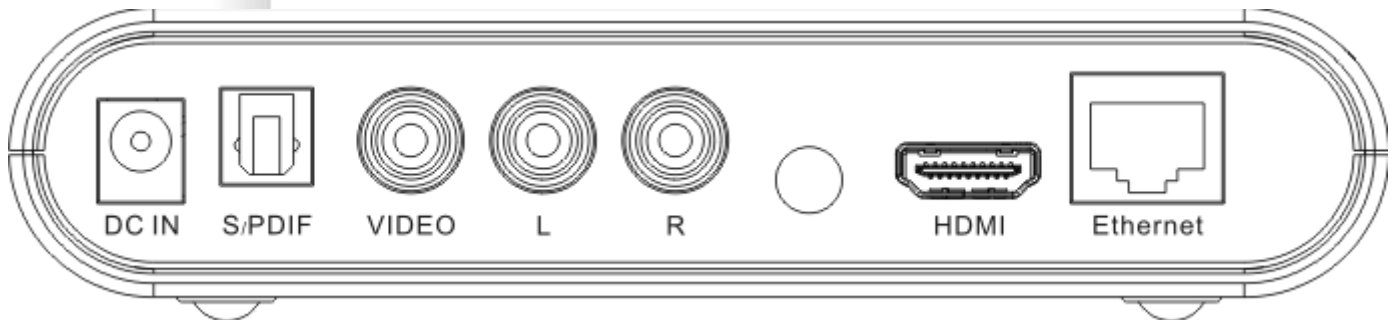
Panel Front side



LED/button/connector:

- (1) **USB port:** These two USB 2.0 type A sockets are for the external USB Flash Disk, USB Mass Storage, or USB Wi-Fi Dongle.
- (2) **IR sensor:** It receives the command from remote control unit. Do not block the port.
- (3) **Power indicator:** It lights on when the power is plugged in.
- (4) **USB indicator:** It lights when the USB Storage is plugged in and ready. It may take 5 seconds to ready when the USB storage is plugged in.
- (5) **POWER STANDBY:** Press it to standby or wake up this player.

Panel Back side



Video connection: Please select one below to connect the TV set.

HDMI output: This port is to connect with HDMI receiver or HDMI TV set.

VIDEO (CVBS): This port is for the CVBS input of TV set.

Audio connection: Please select one below to connect the TV set or S/PDIF receiver.

AUDIO L/R: These ports are the analog stereo audio channels to the input of TV set. If the HDMI is connected, then you don't need to connect AUDIO L/R.

S/PDIF: This is the TOSLINK digital output for audio.

Ethernet port: This is the Ethernet port for the sharing through Local Network.

DC IN: It connects the DC input of the Power Adapter. The power requirement is 12Vdc, 1.5 A.

Remote Control

MUTE: Mute

POWER: Power on/Suspend

MUSIC: Hotkey to view the music file

PHOTO: Hotkey to view the photo file

MOVIE: Hotkey to view the movie file

RED / GREEN / YELLOW / BLUE: Special function

Function key	File browser	Network function
Red	None	Refresh
Green	Edit	Edit
Yellow	Switch to Thumbnail	None
Blue	Back to home	Back to home

▲: UP

◀: LEFT

▶: RIGHT

▼: DOWN

ENTER: ENTER

RETURN: go up one folder/Exit the current menu

MENU: open System Setup page

1 FR: Number key 1, Fast Reverse

2 PLAY: Number key 2, Playback

3 FF: Number key 3, Fast Forward

4 SLOW: Number key 4, Slow motion

5 PAUSE/STEP: Number key 5, Pause and step in frame by frame

6 STOP: Number key 6, Stop

7 REPEAT: Number key 7, 1/ALL repeat

8 PREV: Number key 8, Previous file/section

9 NEXT: Number key 9, Next file/section

0 ZOOM +/-: Number key 0, Zoom In/Fit

RESOLUTION: Change resolution for the video output.

VOLUME +/-: increase/decrease volume

INFO: Display the information/DVD menu during playback

EDIT: Delete, Rename and add the folders and the files to the playlist.



Connect

There are three ways shown below to connect this player to your TV set. Please choose one to apply.

Basic connection:

Power Cord: Connect the DC input in the device.

Audio cable output: Connect the cables to TV set.

CVBS video output (NTSC or PAL): Connect to TV set.

HDMI connection:

Power Cord: Connect the DC input in the device.

HDMI output (Up to 1080p): Connect to HDMI input of TV set. The HDMI port sends digital video and audio signal through the cable. In this configuration, the audio output must be set to LPCM 2CH. Please refer to the section of Audio setting.

***HDMI output to HDMI receiver:** Connect HDMI input to the HDMI receiver, and then connects another HDMI cable from the receiver to TV set like PD-100N -> HDMI receiver -> HDMI TV set. In this configuration, the multichannel audio can be enabled and decoded by the HDMI receiver. Please set the audio output to HDMI RAW. Refer to the section of Audio setting for further instruction.

SPDIF connection:

Either Basic connection or HDMI connection can apply SPDIF connection. This connection provides 5.1 audio data to the SPDIF receiver, and then the receiver decodes it into 5.1 audio outputs.

TOSLINK cable: Connect the optical cable from this port to the SPDIF input of the audio receiver. When connecting SPDIF, the connection of AUDIO R/L isn't required.

Multichannel audio setting: To obtain the multichannel audio via SPDIF, setup the audio output to SPDIF RAW.

Network connection:

Choose either Ethernet cable or USB Wi-Fi dongle for the network connection.

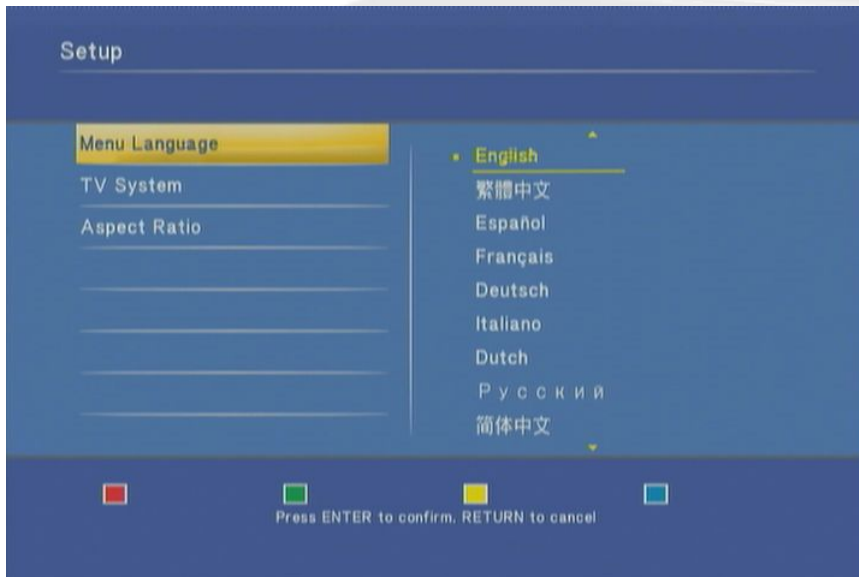
Setup

Please check the battery of Remote Control first, and then start the initial setup.

Initial setup

When plugged in the power at the first time, after the booting logo, the setup page should display to start the initial setting. The first item is the menu language. Please setup the menu language for OSD. Use ▲▼ button to select the language and press “ENTER” to confirm.

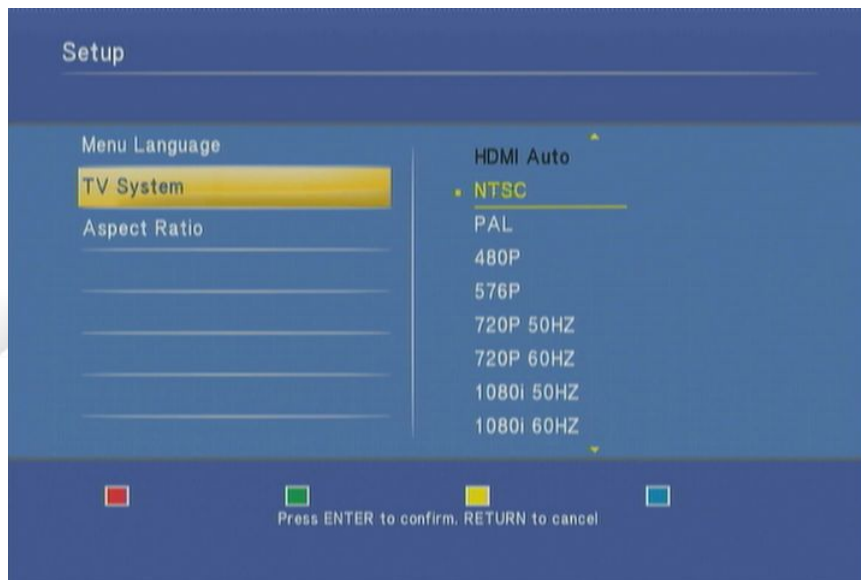
Note: Before beginning this process, if you want to connect HDMI, please connect it first and then start the configuration.



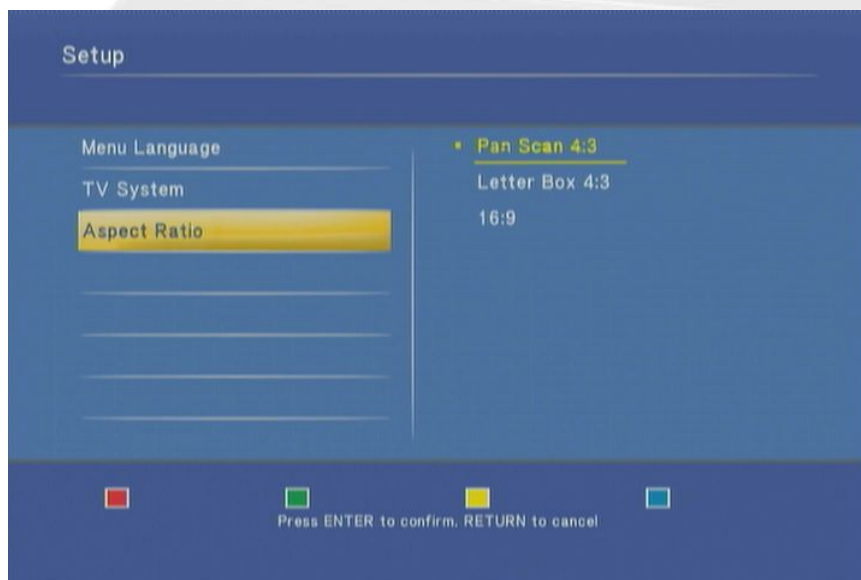
The second item is to choose the resolution of the video output according to your TV set and the connection between this play and TV set.

- For HDMI TV set, the device detects the available resolution of your TV set and lists them on screen. In the list of resolution, the available option is in white character and the unsupported one is in dark character. We recommend you to select the option “HDMI Auto” which enables the maximum resolution on your TV set.
- For CVBS output, choose “NTSC” for NTSC TV set or “PAL” for PAL TV set.

Note: The CVBS is always output SD video no matter which resolution is chosen.



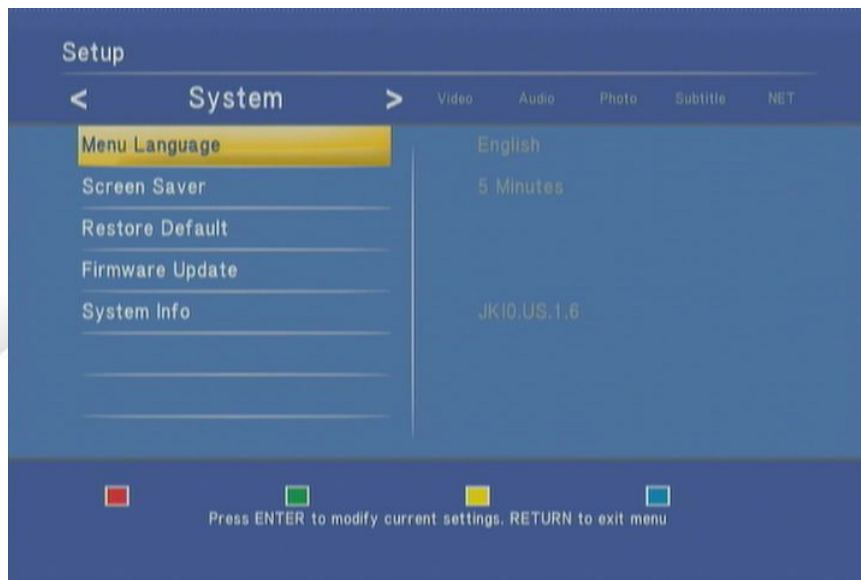
The final item is to setup the aspect ratio for your TV set. If your TV set is 4:3 then you can choose Pan Scan 4:3 or Letter Box 4:3. If you have wide-screen TV then you can choose 16:9. Use ▲▼ button to select one and press “ENTER” to confirm.



The initial setting can be configured anytime in the setup menu. Please refer to the setup menu.

Setup Menu

You can press “MENU” to open the setup menu. Use ◀▶ key to select different pages among “System”, “Video”, “Audio”, “Photo” and “NET”. Use ▲▼ key to select different item to setup. Press “ENTER” to open detail setting for configuration.



The menu structure and options are listed below.

1. System

Select this option to open the detail setting for the system.

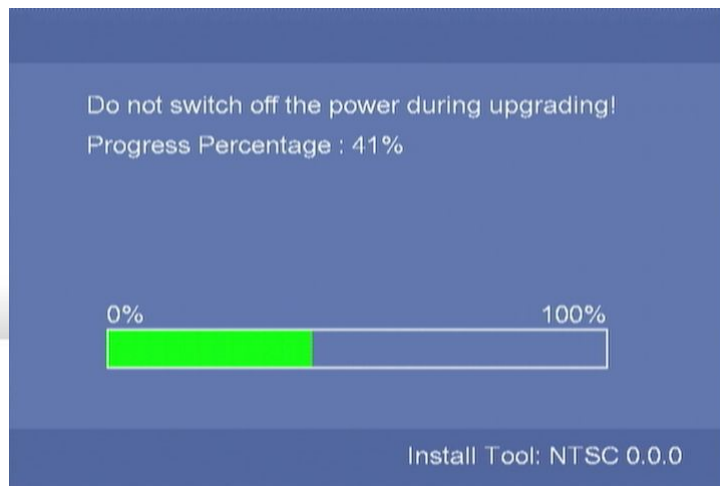
Menu Language: Select the OSD language among English, Chinese Traditional, Español, Français, Deutsch, Italiano, Dutch, Русский, Chinese Simplified and Portuguese.

Screen Saver: Select to turn off/no the screen saver. The default setting is on which displays icon randomly on screen after 5 minutes idle. When using the device on the plasma TV, it is recommended to turn on screen saver

Restore Default: Select this option to reset the setting to factory default.

Firmware Update: Select this option to apply the new firmware. When you find the new firmware, please check the “**System Info**” for current firmware version to see if the device needs to upgrade. If so, please download the firmware file for upgrade. The upgrade procedure is below.

1. Prepare an empty flash disk. Plug it into PC and copy all firmware files to its root directory.
2. Plug it into this device.
3. Open the “Firmware Update” option in the configure menu. Press it and select “OK” to continue.
4. Wait for 5 minutes. Do not unplug the power during the upgrade procedure. When the upgrade is completed, it will reboot and return to the main screen.



System Info: It displays the firmware version including system version, audio-firmware version video-firmware version and the TV system of this device.

2. Video

Select this option to open the detail setting for video display.

Aspect Ratio: Select one among these options “Pan Scan 4:3, Letter Box 4:3, 16:9”.

Pan Scan 4:3: Select for a full-height picture with both sides cut.

Letter Box 4:3: Select for the “wide screen” display with black bands on the upper and lower parts of the TV screen.

16:9: Select this for a wide screen 16:9 TV.

Note: When the movie is in wide screen 2.40:1, the both sides of the video is still cropped. Press “Zoom -” to zoom out the video to fit the screen.

TV System: Select the resolution for the TV picture. This page is the same as the one in the initial setup.

Entering this page and you can see the available resolution. Choose one to change the resolution. The possible resolution for each TV system is listed below. Select the right resolution according to the capability of your TV set.

TV System & Resolution	Standard Definition	High Definition
NTSC	NTSC, 480p	720p@60Hz, 1080i@60Hz, 1080p@60Hz
PAL	PAL, 576p	720p@50Hz, 1080i@50Hz, 1080p@50Hz

Only HDMI connection can output HD TV picture. Refer to the details below.

HDMI Connection: When the HDMI is connected, this device can detect the available resolution of TV set. After entering the video setup page, the available resolution will be shown in white character and the negative one will be in dark character.

HDMI Auto: When HDMI is connected, you can choose this option to use the maximum resolution of TV set. If it is in dark character and can't be selected, re-plug the HDMI cable and re-enter this page to try again.

CVBS: The SD video will always output from this port no matter what resolution you selected.

Note: When connecting LCD monitor via DVI to HDMI converter, the player will detect the support

resolution of LCD monitor. Only the supported resolution (white characters) can be selected.

1080P 24HZ: Select “On” to enable this option. When this option is on, the player will output 1080p 24Hz video when the condition below is all fulfilled:

1. The video output of this player is HDMI.
2. The EDID (Extended Display Identification Data) sent by the TV set through HDMI indicated the support of 1080p 24Hz display.
3. The frame rate of the video file is 23.976 fps or 24 fps.

Movie Preview: Turn off this option to disable the preview of the movie file in the file browse window.

Resume Play: Turn off this option to disable this function. The default is enabled and the video playback progress is saved when stop and can be continued next time.

3. Photo

Select this option to open the detail setting for the photo display.

Slide Show Timing: Choose from these options “Off, 2 Seconds, 5 Seconds, 10 Seconds, 30 Seconds, 1 Minutes and 2 Minutes”. It decides the waiting time before changing to the next photo while viewing photos.

Transition Effect: Choose from these options “Off, Cross Fade, Left to Right, Top to Bottom, Waterfall, Snake, Dissolve, Strip Left Down and All Effect Shuffle”. It decides the transition effect for changing photos.

4. Audio

Select this option to open the detail setting for the audio playback. There are four kinds of digital audio output, and can be roughly divided into two categories “HDMI” and “SPDIF”. For the HDMI, it is recommended to connect HDMI output to HDMI receiver or TV set. For the SPDIF Only, it is recommended to connect SPDIF receiver.

HDMI LPCM (2CH): When connecting the HDMI to TV set directly, select this option for the correct audio. The player transcodes the Multi-channel audio data into stereo digitized analog audio (Linear pulse code modulation) and output through HDMI port.

HDMI RAW: When connecting to the HDMI receiver, select this option for the **multichannel** audio. The player bypasses the digital audio such as Dolby Digital AC3 or DTS through HDMI port. Please be aware of that the additional HDMI receiver is required to decode and output the digital audio.

SPDIF LPCM (2CH): When connecting to the SPDIF receiver, select this option to output the digitized analog audio (LPCM) audio.

SPDIF RAW: Select this option for the **multichannel** audio. The RAW data of audio such as DD AC3 or DTS will be sent through SPDIF to the receiver which decodes the digital audio data.

Note: For HDMI TV set + HDMI receiver: Select HDMI LPCM (2CH) or HDMI RAW.

For HDMI TV set + SPDIF receiver: Select SPDIF LPCM (2CH) or SPDIF RAW.

For HDMI TV set only: Select “HDMI LPCM (2CH)” for the correct sound.

***: Because TV set receives 2CH LPCM audio only and short of digital audio decoding**

capability, select “HDMI RAW” might cause the breaking audio from TV set.

Karaoke Vocal Removal: Some MTV video stores vocal and music in the audio channel separately, for example, the vocal in the right channel and the music in the left channel. Choose one to remove Left or right channel audio. Because the audio location on every MTV video file may be different, try to choose different audio channel to remove the right channel. The rest channel will be output both channels so both speakers of TV set have audio. To restore the normal audio, select “Normal” to apply.

5. Subtitle

Select this option to open the detail setting for the subtitle display.

Subtitle Encoding: Select the encoding for subtitle file, file name and folder name display from Unicode (UTF8), Chinese Simplified (GBK), Chinese Traditional (BIG5), Western (CP1252), Turkish (CP1254), Central European (CP1250), Greek (CP1253), Cyrillic (CP1251), Hebrew (CP1255) and SE European (ISO 8859-16). Please select the right code to display or the garbage characters may appear on OSD.

Subtitle Font Size: Select the font size for the subtitle. The available options are “+2, +1, Normal, -1 and -2”. The default setting is “Normal”. If the format of font is “idx + sub” or it is the subtitle in DVD Video/ISO/IFO, the font size option here won’t be applied.

Subtitle Color: The default color is white for subtitle display and you can choose one of the other colors including red, yellow, green, blue and black.

Subtitle Delay: If you find the display of external subtitle and the movie playback are not sync, you can increase or decrease the delay for the subtitle display. Use the right/left key to choose the time from -2000 ms to 2000 ms. The negative value means to show subtitle earlier and the positive value means to show the subtitle later.

6. Net

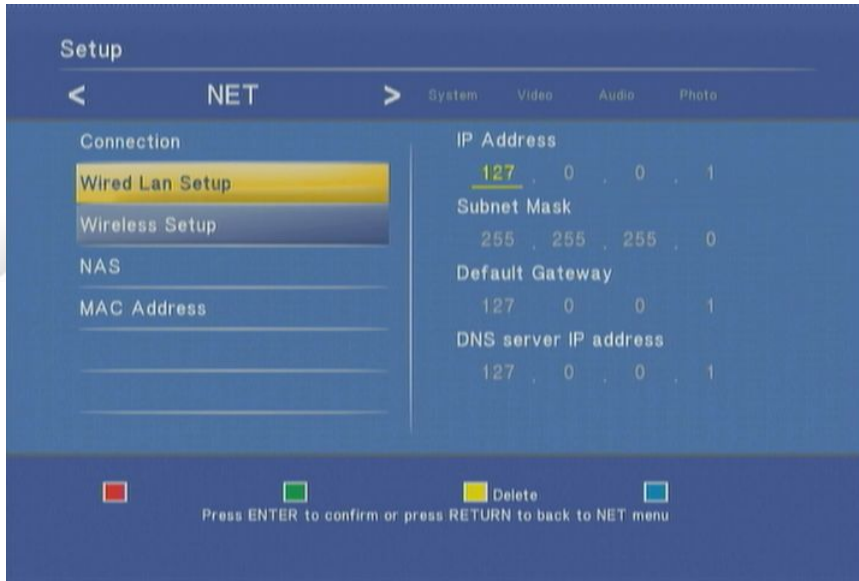
Setup the IP Address of the player for the network sharing.

Connection: Choose to use either onboard Ethernet or external Wireless LAN to connect the network. Only one interface is enabled at the same time. Both kinds of connection can use the network function on this player.

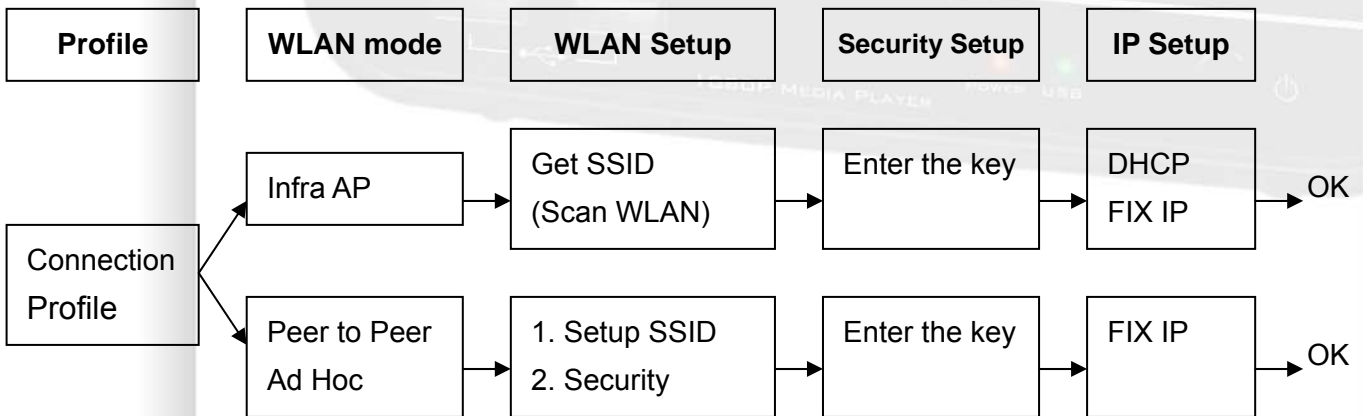
Wired LAN setup: the available options are “Cancel”, “DHCP IP (AUTO)” and “FIX IP (MANUAL)”. Select “Cancel” to discard the changes, “DHCP IP (AUTO)” to get the IP Address, or “FIX IP (MANUAL)” to setup the IP Address manually. For selecting the DHCP IP, the IP Address should show in the field after DHCP Renew window. For the FIX IP, the IP Address, Subnet Mask, Default Gateway and DNS server IP Address fields are required filling in.

NAS: Select “On” to enable the NAS function. When it enabled, the USB storage inserted in this player can be accessed from the LAN. Please refer to the chapter to use the NAS function.

MAC Address: The MAC Address of this player is showed in this field.



Wireless LAN setup: Before configuring the WLAN network, insert the USB 802.11n Wi-Fi Dongle. To setup the WLAN connection, you will go through the steps below. In each step, setup and press “ENTER” to continue or press “RETURN” to previous step.



Profile: Choose one profile to edit or apply. The saved profile can be applied later. To apply the profile, choose it and press blue key to apply. In the first setting, choose “Connection 1” and press “ENTER” key to continue.

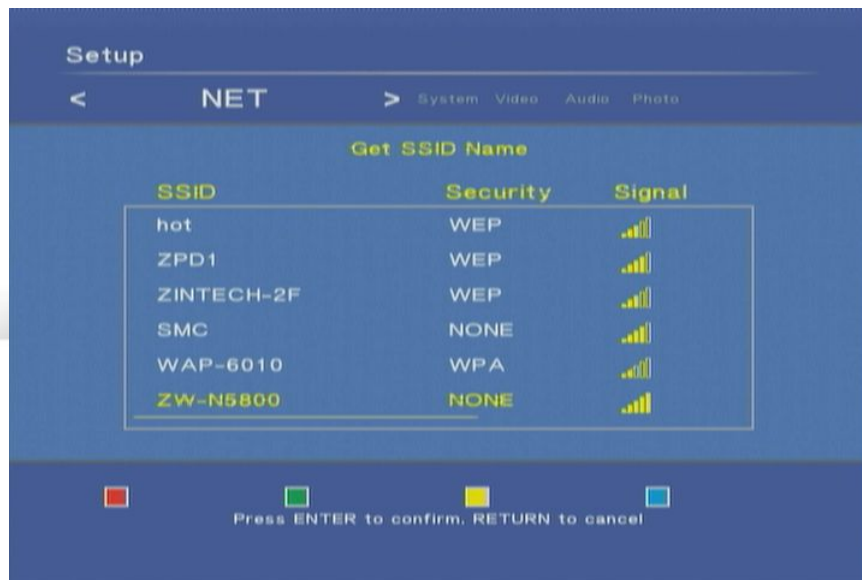
Connection: Select either to use “Infrastructure (AP)” or “Peer to Peer (Ad Hoc)”. The Infrastructure mode requires an Access Point to access and the Ad Hoc mode is for the dongle to dongle network.

The procedure divides into two ways here.

Infrastructure AP Mode:

Get SSID: select one SSID which is the network name for AP and then press “Enter” to continue.

Signal Strength: in this page, you can find the signal strength for every SSID. Adjust the position, angle of the dongle or AP to get the high signal strength.



Security setup: If the key is required for accessing AP, use the virtual keyboard on the monitor to input the key. The key must be the same as the setting on your AP.

IP Setup: Choose to use DHCP IP or FIX IP. Generally, you select DHCP IP. If FIX IP is required, use the virtual keyboard to input the IP Address.

Test Connection: In the final step, press “ENTER” to save the setting. The player will try this connection and report the status. If it works then the setup is completed.

Peer to Peer Ad Hoc mode:

SSID: Use the default SSID or enter a new SSID.

Security: Select “None” for No encryption or “WEP” for WEP encryption. Press blue key to continue.

Enter the key: If choose WEP, use virtual keyboard to input the key. For WEP key, the length of password could be 10 or 26 hex digits. The other Dongle associating to this Peer-to-Peer network must use the same key.

Note: Only the personal encryption modes are supported including WEP-Open, WPA-PSK, and WPA2-PSK.

Note: For the security reason, this dongle only supports **11n data rate (Phy 300 Mbps)** with **no wireless encryption** or **AES encryption**. In the other encryption like WEP-Open, WPA-PSK-TKIP or WPA2-PSK-TKIP mode, the data rate could only reach 11g (54 Mbps) mode. We recommend setting AES algorithm like **WPA-PSK-AES** or **WPA2-PSK-AES** to encrypt the WLAN.

Note: For the Ad Hoc wireless network, the dongle supports 11 b/g modes (Phy 54 Mbps Max.).

Support Dongle: ZW-N290 1T2R 802.11n USB dongle.

Multimedia Jukebox

Playback the media files in the USB storage

You can playback the movies, music and photos in the connected USB storage via this device. Plug in the USB storage, and then press the three buttons “MUSIC, PHOTO, MOVIE” to enter the interface and playback the media files. In the interface, select “USB” and then press “ENTER” to browse the media files.

When plugging in the USB Mass Storage device, USB card reader or USB flash disk into this device, wait for 5 seconds, and you can see the message on screen “USB Detected” Then you can continue to browse the USB device.

If the USB storage device is unplugged, the USB LED on the player will be off, and the following message will show on screen: “USB Removed”

When selecting “USB”, the following message may pop up. Please follow the instructions to continue. “USB Storage is not detected. Please plug in the USB Storage and try again. Please wait about 5 seconds till the USB indicator lights if you already plug in the USB Storage.”

The first page

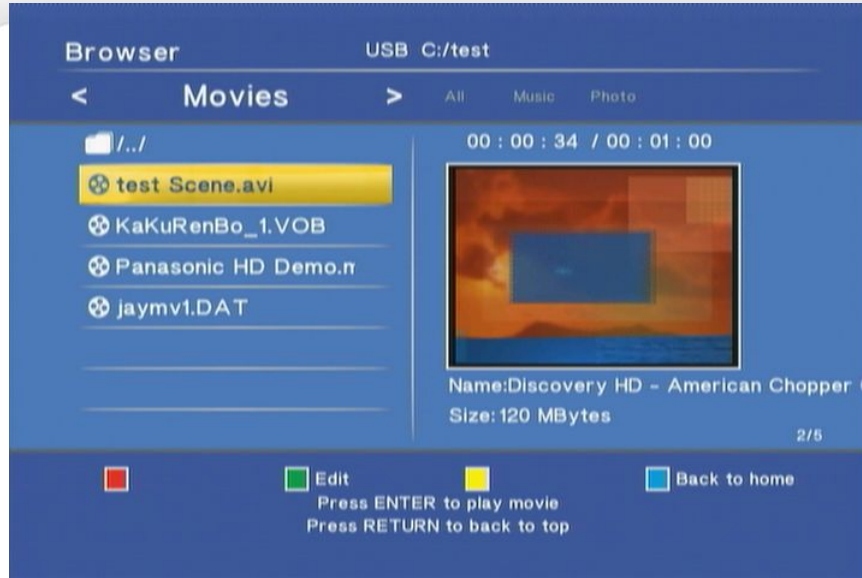
When powering on the player at the first time, the browser window with 5 options will be always there for you to choose. Select “USB” to browse and play the USB storage, “NET” or “UPNP” to browse the folders in PC, and “Playlist” to play the media files in the playlist. Select “Setup” for system setup of the player. The tab in the top will filter the files such as “All” for all files, “Movies” for movie files, “Photo” for picture files and “Music” for music files.



Movie

Press “MOVIE” button to enter the interface. In the interface, you can use ▲▼ arrow keys to move and highlight the file titles. Press “ENTER” to open the folder or file title, or press “RETURN” key to return to the previous folder. After entering this page, you can select the USB icon, folder, or files to browse. The right panel will show preview of the highlighted title.

*: To disable the movie preview, enter the menu and navigate to Video page to disable this function.



Press the file title and it starts to playback the video. When the movie begins to play, the four keys “Red, Green, Yellow, Blue” will be showed in the top of the TV screen.

Red, Green, Yellow, Blue: When playing the video files supporting DVD menu such as ISO/IFO file, you can press red key for “Menu”, green key for “Audio”, yellow key for “Subtitle” and blue key for “Angle”.

▶, ||▶: Press Play key to play file. Press Pause key to hold the playing. Press Play key again to continue playing.

REPEAT: When playing the media, press to switch the repeat modes among the following modes, “Repeat Title” to repeat the current file, “Repeat ALL” to repeat all files in the directory, “Repeat Chapter” to repeat current chapter in VOB/IFO/ISO file, or “Repeat Off” to turn off the repeat mode.

|◀◀, ▶▶|: Jump to the previous or next file. While playing VOB/ISO/IFO video files, press it to jump to the previous/next chapter. If there is no chapter in this file, the player will remind you to press the button again to jump to the next file.



: Ban sign. When pressing the irrelevant button, it will be blocked and shows this sign on screen.

◀◀, ▶▶: Press to play fast forward or fast reverse. Press it again to switch the rate among “1.5X, 2X, 4X, 8X, 16X, and 32X”.

SLOW: While playing the video, press the button to play slow motion. Press again to toggle among

the speeds 3/4X, 1/2X, 1/4X, 1/8X, 1/16X and 1X (normal speed) ◦

ZOOM +, -: Press “+” to enlarge the video to 2X, 3X, 4X, 8X. Press “-” to recover the video to 8X, 4X, 3X, 2X, 1X and Zoom-out. When zoom the video, you can use the direction key to change the visible picture of the whole video.

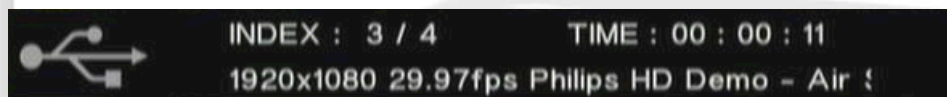
Note: if the edge of the video is cut in the TV screen, press the Zoom “-” to fit the screen.

VOLUME +, -: Press volume keys to control the volume.

RETURN: Press it to go up one folder in the browse window.

Repeat: While playing the movie, press the key to loop the repeat mode among Title, Chapter, All and off. “Title” is to repeat the current file. “Chapter” is to repeat the current chapter in the title such as VOB, ISO and IFO format. “All” is to play every file in the current directory.

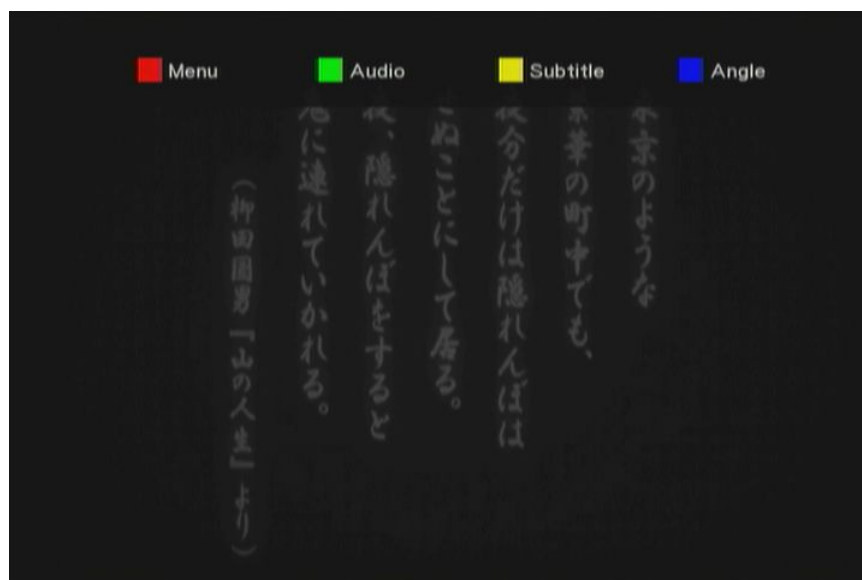
INFO: During the playing, press this key to pop up the DVD menu, and press it again to change to the video information. For DVD menu, you can press the color key to toggle the respective function.



Green key: In the browser, press it to edit the file name. You can rename or delete the file. Please refer to the edit section for details.

Blue key: In the browser, press it to go to the root directory.

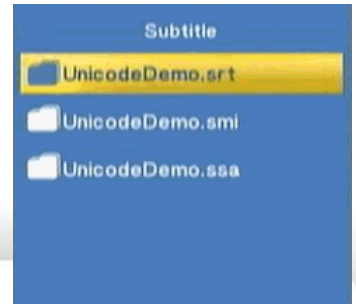
Yellow key: While playing ISO/IFO file which supports DVD menu, you can press it to switch the language of the subtitle. When playing the other formats of video file, you can press it to change the subtitle code among “OFF” for turning off the subtitle, “BIG5” for the traditional Chinese, “GBK” for the simplified Chinese, and the rest European languages.



When finishing the current video file, it will continue to play the next file in the directory to the last file. You can also use REPEAT key (All, Chapter, Title) to repeat the current file or all files in the directory during the playback. You can also use the playback control while playing the video. If you press “INFO” key, the video information will show on screen.

Subtitle display

External subtitle files: This device supports the subtitle file including the formats of srt, sub, smi, idx+sub, ssa and ass. Please change the file name of subtitle file as the same as the video file and put them in the same folder. This device detects and applies the subtitle file automatically. If you have multiple formats of subtitle file with the same file name in the same folder, this device will show the menu for you to select one to play. Use the direction key to select one and press “ENTER” to apply.



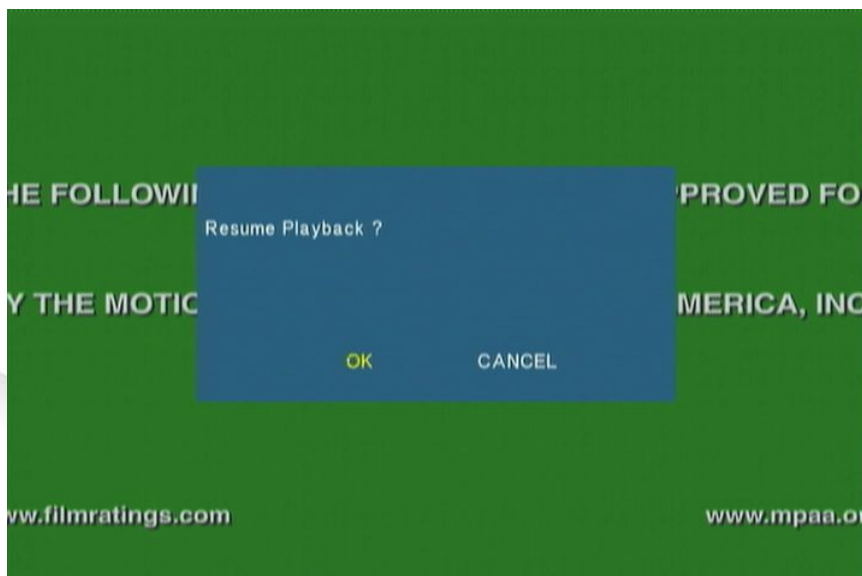
Adjust subtitle in the playback: when playing Movie with external subtitle, press ◀▶ keys to change the font size of subtitle. There are 5 levels of size for selection including -2, -1, normal, +1, and +2. Press ▲▼ keys adjust the position in the screen up or down.

External subtitle prior internal subtitle: some movie files, such MKV file, have internal subtitle. If the internal subtitle is in foreign language that you can't read, you can find an external subtitle like SRT file which is in right language and put them in the same directory with same file name. The player will display the external subtitle file instead of the internal subtitle.

Resume Play

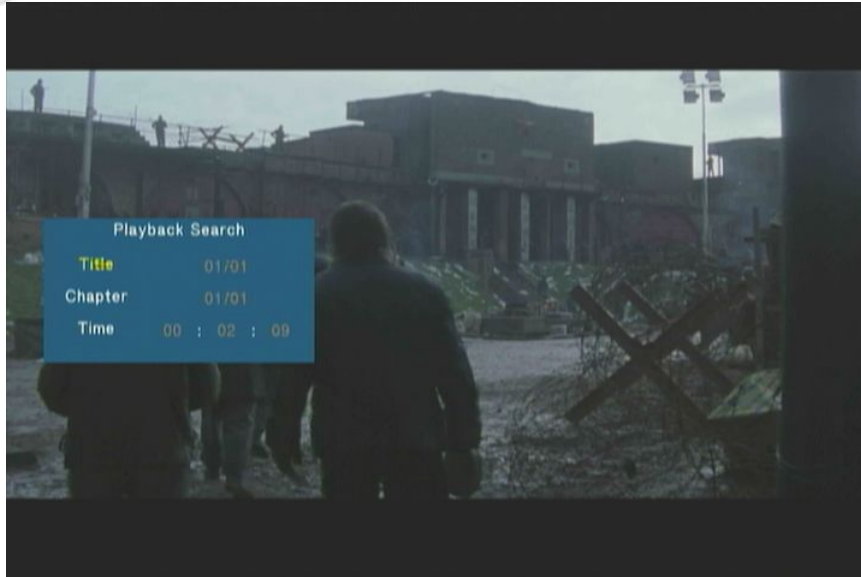
This play supports play resuming function. When the video playback is stopped by the STOP key or POWER key, the progress will be saved in the player. When you play the same file next time, the confirming window pops up to apply this function. Select “OK” to replay from the last-time stop, or select “Cancel” to play from the beginning. The video progress is saved even the electricity is unplugged.

To disable this function, open the menu and navigate to Video page to select the “Resume Play” option, and then turn off the option.

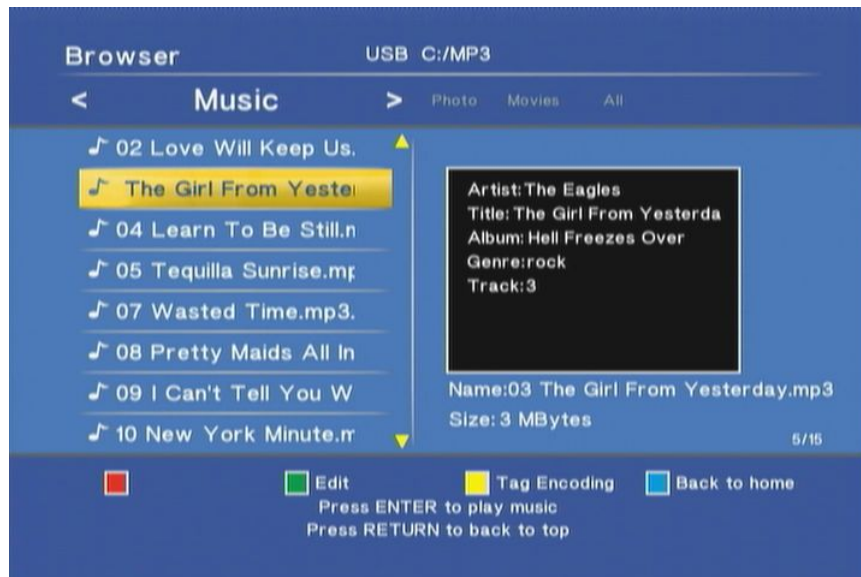


Playback search


In the Movie playback, press “PLAY” key to open the sub menu. Use the direction key to navigate among “Title”, “Chapter” and “Time”. Press “ENTER” key to enter each item and enter new unit, and press “ENTER” key again to jump into the progress. When configuring the time, use the direction key or the number key in the remote control to enter the value. To close the sub menu, press “RETURN” key to close it.



Music



Press the “MUSIC” button to enter the interface. Navigate to highlight the file and press “ENTER” to playback the file. When the file is highlighted, the right panel shows the tag information about the file including artist, title, album, genre and track. It will continue to play next file till the last file. You can also use the playback control while playing the video.

▶, : Press Play key to playback. Press Pause key to hold the playback. Press Play key again to continue playing.

REPEAT: When playing the media, press to switch the repeat modes among the following modes:

Repeat Off: turn off the repeat mode.

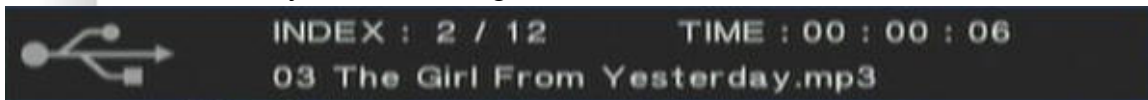
Repeat Track: repeat the highlighted music file.

Repeat All: repeat to play all music files in the folder.

Shuffle Repeat: repeat the randomly select music file in the folder to playback.

Shuffle Only: randomly select music file in the folder to playback.

INFO: During the playing, press this key to pop up the audio information. The information includes Index current song No. / Total song No, playback time, and the music title. The music title will scroll automatically if it is too long to fit the field.



| ◀◀, ▶▶ | : Press to leap forward or backward 6 files.

◀◀, ▶▶: Press to play fast forward or fast reverse. Press it again to switch the rate among “2X, 4X, 8X, 16X, and 32X”. When switching to FF 2X, the playback still comes with audio.

VOLUME +, -: Press volume keys to control the volume.

RETURN: Press it to go up one folder in the browse window.

Green key: In the browser, press it to edit the file name. You can rename or delete the file. Please refer to the edit section for details.

Yellow key: If the tag of the song is in garbage code or broken character, press this key to show the information.

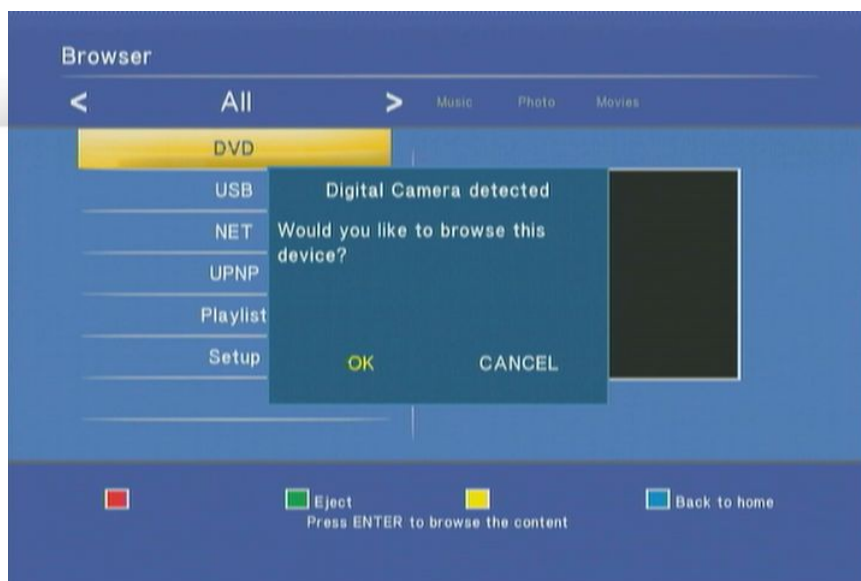
Blue key: In the browser, press it to go to the root directory.



: Ban sign. When pressing the irrelevant button, it will be blocked and shows this sign on screen.

inserted, this player can detect it and display the photo in the storage. Choose “OK” in the confirming window to browse the photo.

*: This player only supports USB Storage mode so the digital still camera must be able to change to USB Storage mode, otherwise it can't be supported.



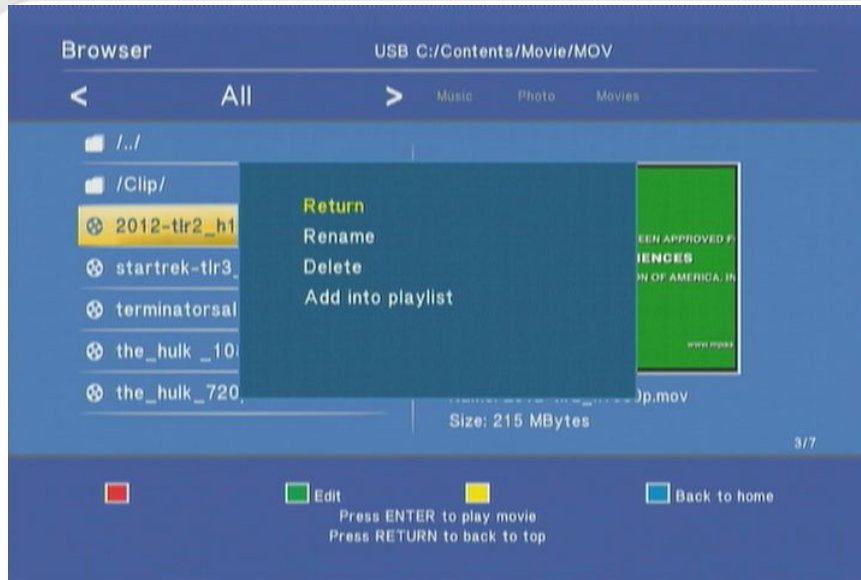
All



If the browse interface is already opened, press ◀▶ keys to navigate to “All” category to browse all files including Movies, Music and Photo. Navigate to highlight the file and press “ENTER” to playback the file. When the file is highlighted, the right panel shows the detail information about the file. It will continue to play next file which is in the same kind of media till the last file. You can also use the playback control while playing the media files. Please refer to the section of video, music and photo playback.

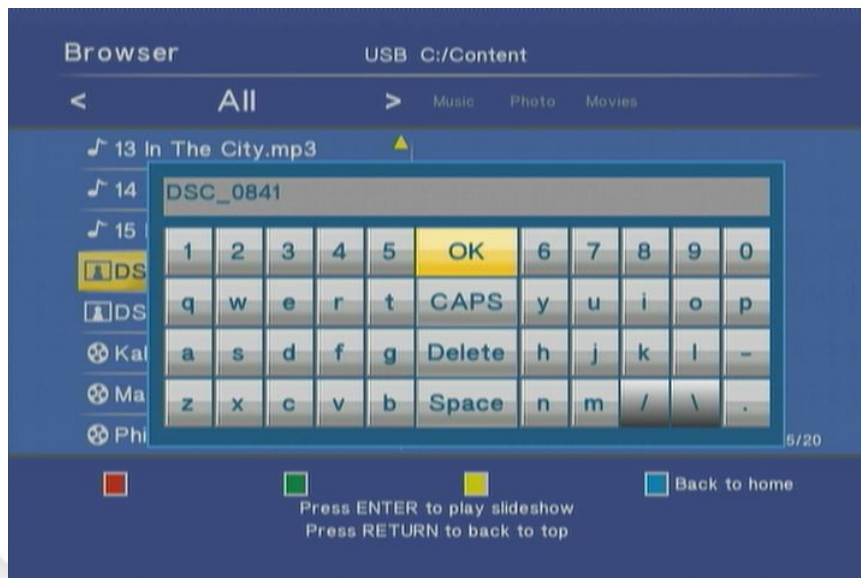
Edit the media files

In the browser window, press the “EDIT” key to open the edit window. You can rename or delete the files in the browser. If you don’t want to continue, select “Return” or press “Return” key on the remote control.



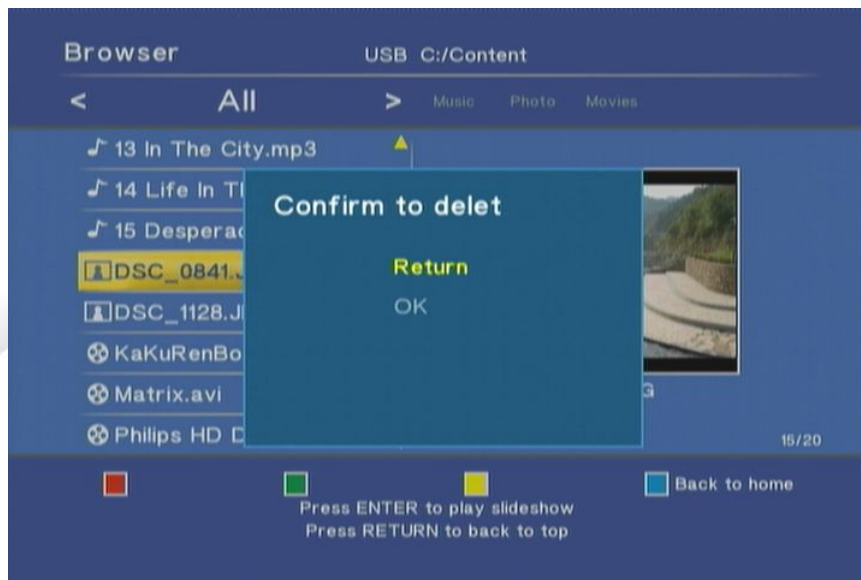
Rename

Choose “Rename” and the keyboard will be pop-up for entering new name. Use the arrow key to highlight the key and press “ENTER” to input the character. When the input is complete, navigate to highlight the “OK” button and then press “ENTER”.



Delete

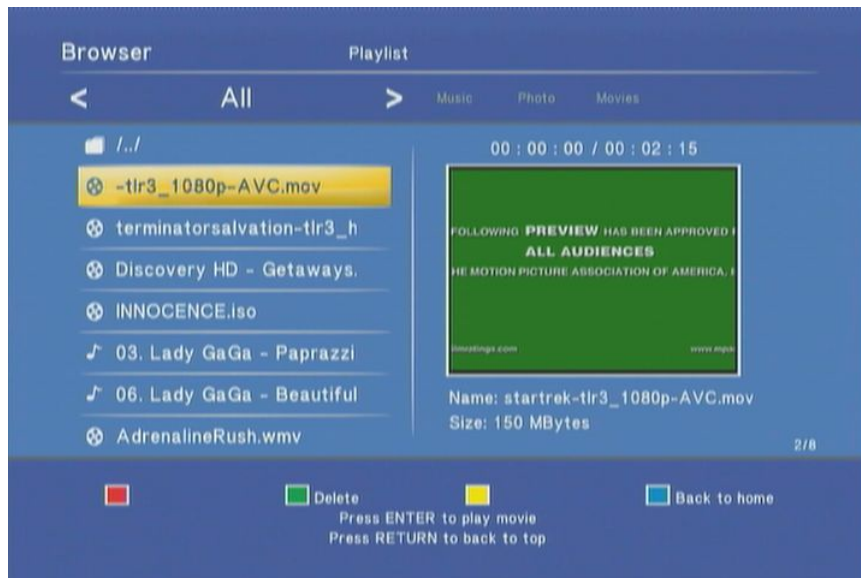
Choose the “Delete” and the confirm window will pop up. Select “OK” to delete the file or “Return” to cancel.



Playlist

Edit playlist on this player to play Movie, Photo and Music in order. When browsing files, press “EDIT” key to pop up the sub menu and select “Add into playlist” to add the file. To play the files in the playlist, select “Playlist” in the first page, and choose one item to play.

Playlist type: There are four lists including “All”, “Music”, “Photo” and “Movie”. When adding a file to playlist under media tab, you need to switch to the proper media tab which is added the playlist to view it. For example, switch to “Movie” tab and add the file to playlist, and then view the “Playlist” under “Movie” tab.

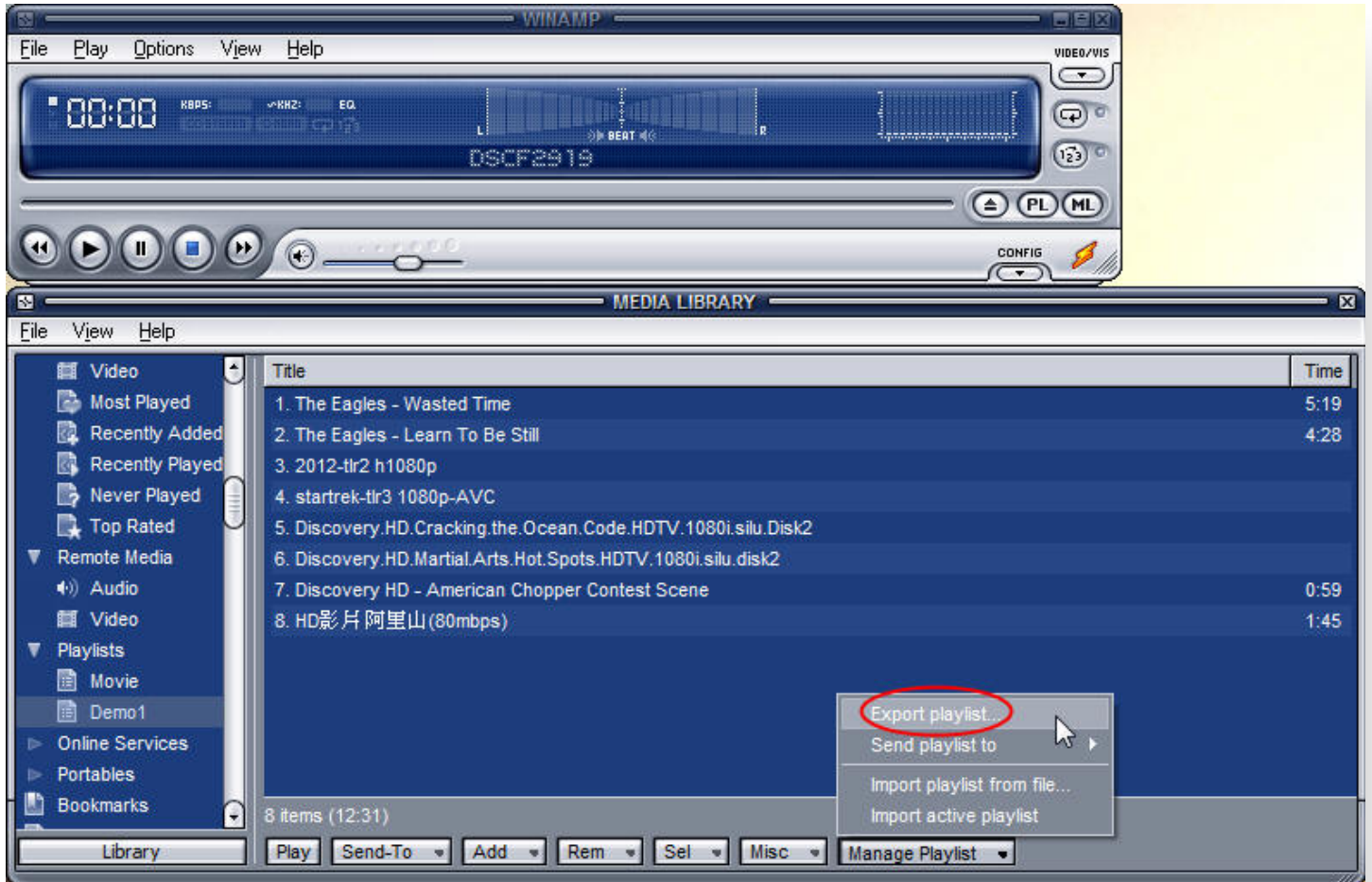


Green Key: In the browse window, press it to clear the playlist. The file won't be erased and only deleted in the playlist.

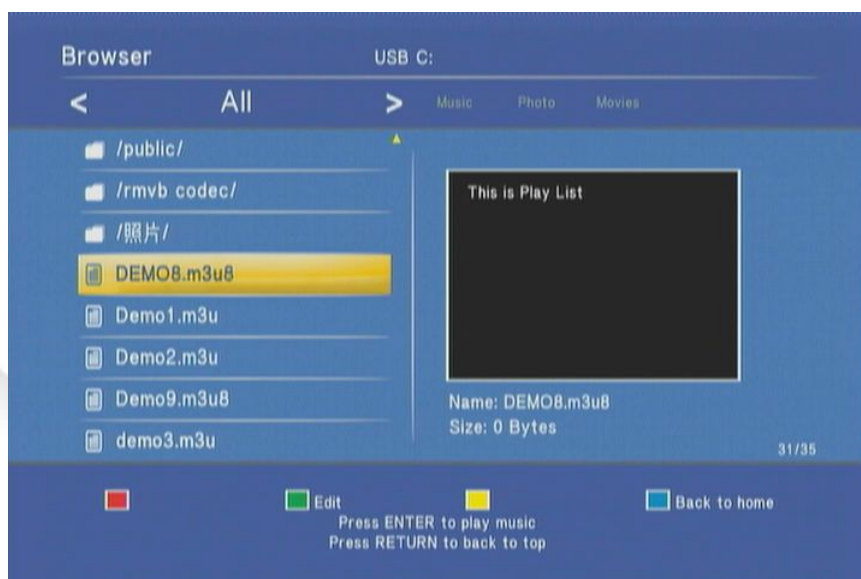
Blue Key: Press it to return the first page.

M3U playlist: Besides the playlist function in the player, the player also supports the M3U playlist file.

User can edit a M3U file and put it in the USB storage for the player to play by its sequence. For example, use the PC software “WINAMP” <http://www.winamp.com/> to edit playlist and export it to M3U file. If the file/folder name has non-English characters, it may require to choose “M3U8 (Unicode) playlist” to export, or the player may not recognize it and report the invalid file message.

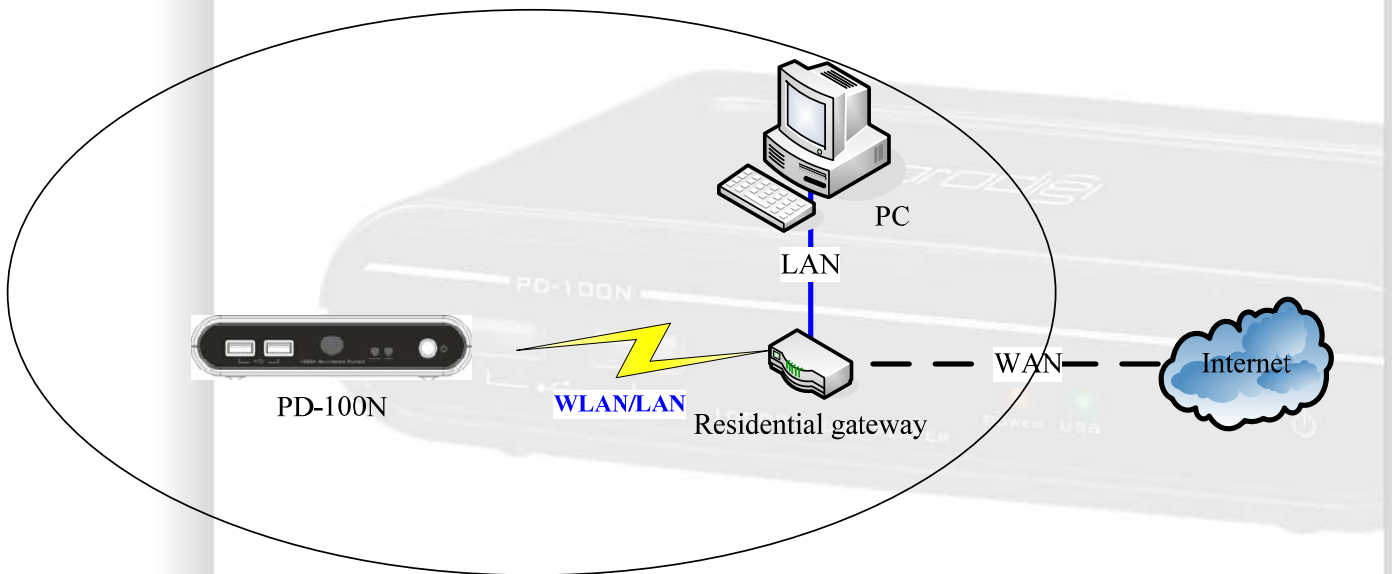


After entering the M3U/M3U8 playlist, you can select the media tab to filter All, Music, Photo and Movies.



Network player

This player features an Ethernet port to allow it to browse and play the media files in the other PC via Ethernet or Wireless LAN. With a few settings and the network connection, you can sit down in the living room and watch the TV to operate this device, to browse and playback the Video, Music and photo on your computer even it's in your study room. The network topology is like below. For the Wireless LAN connection, plug in the optional USB Wi-Fi dongle to apply the network function. Refer to the setup chapter for setup WLAN.



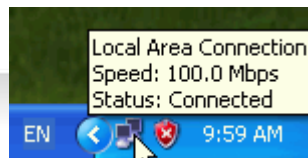
Setup the IP Address

Before using this function, you have to connect the Ethernet port to your network. For the network with a DHCP server such as a residential gateway, you can select "DHCP IP (AUTO)". If you connect this device to your PC directly, you can select the "FIX IP (MANUAL)" to setup an IP Address in the same IP domain of PC. Please refer to the setup section for details.

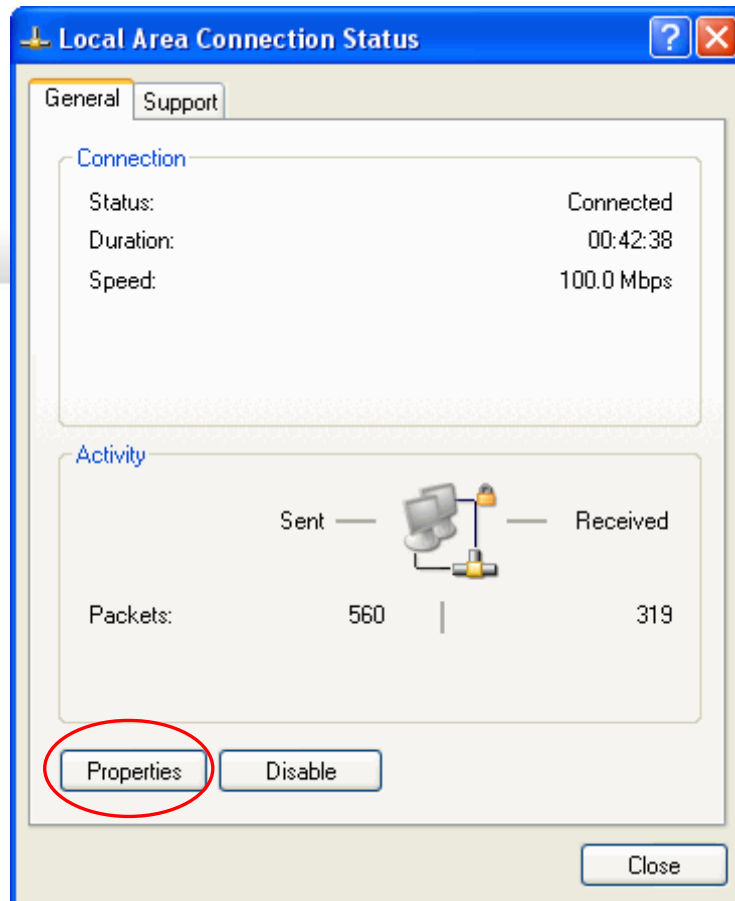
Setup the IP Address for PC manually

If you connect the player to PC directly or don't have a DHCP server, you need to configure the IP Address for the Ethernet port of PC. The procedure below will walk you through the steps of the setting. We take the setting of Windows XP for example.

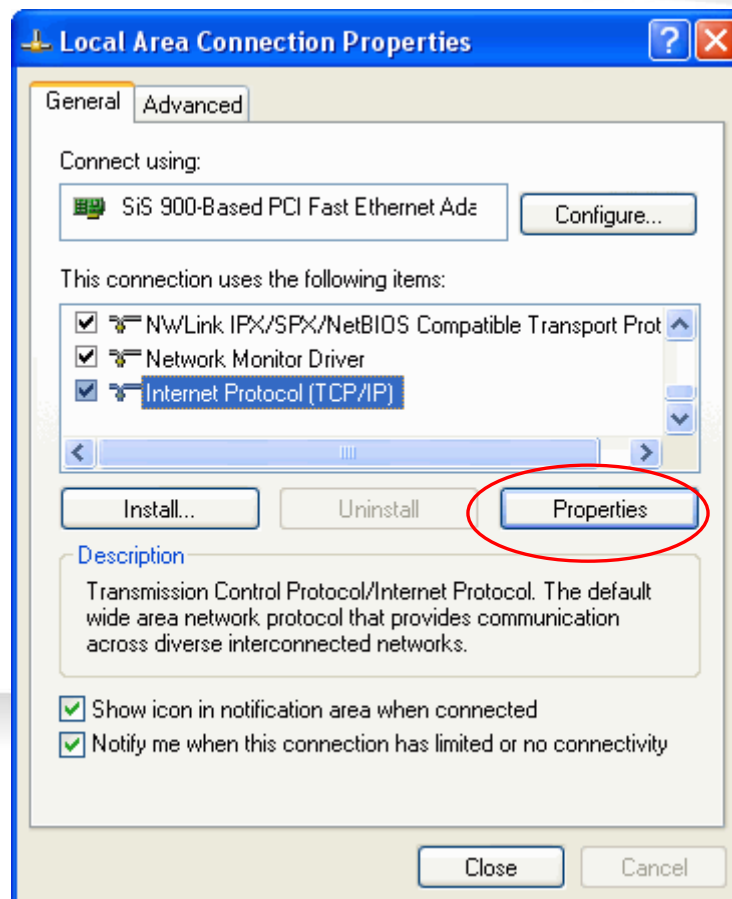
First, double-click on the Network icon on the task bar.



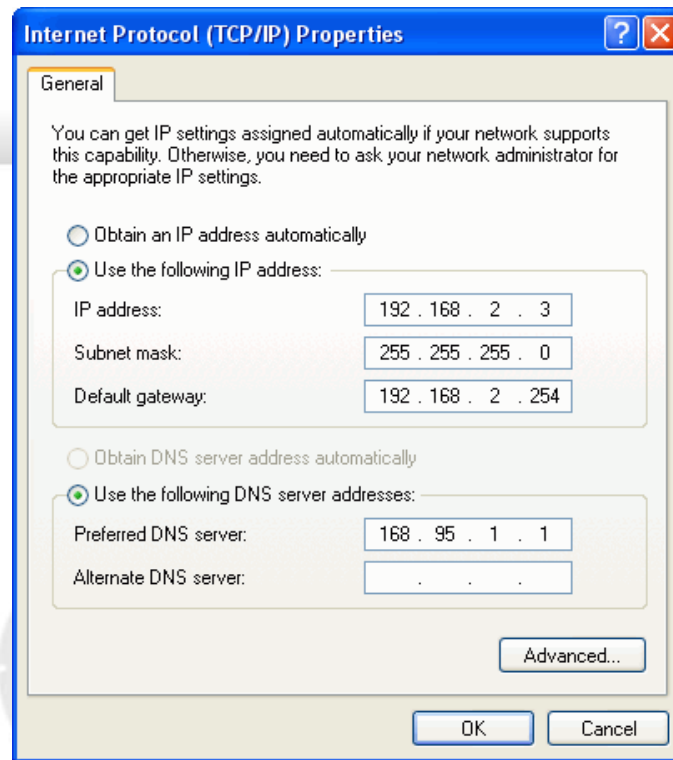
When the setup window shows, click “Properties” button to continue.



Choose the “Internet Protocol (TCP/IP)” and then click “Properties” button to continue.

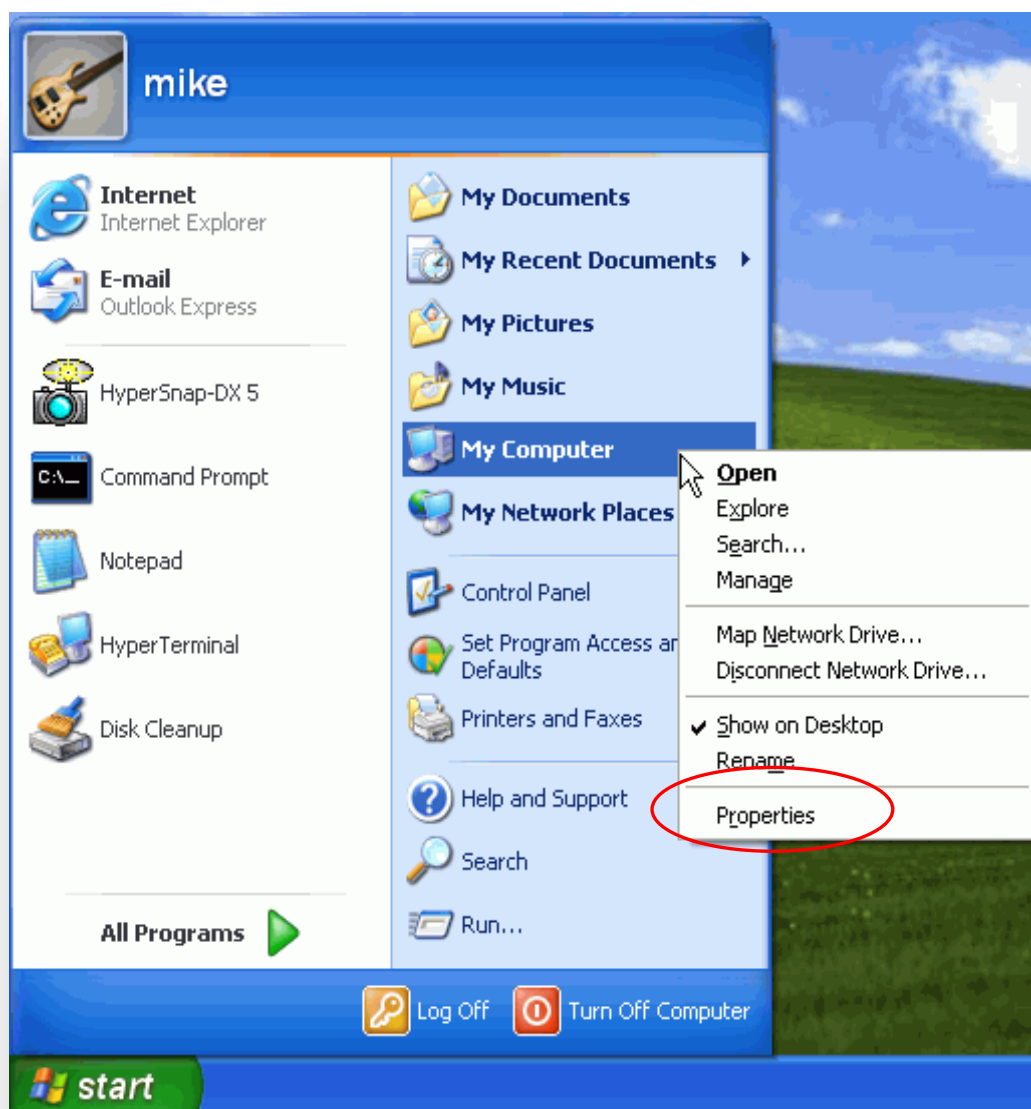


Click “Use the following IP address” and input the IP Address. The Static IP Address for the PC should be in the same domain as the one of the player. For example, setup 192.168.2.3 for PC and then setup 192.168.2.2 for the device. Please refer to the setup section for the setting of the player.

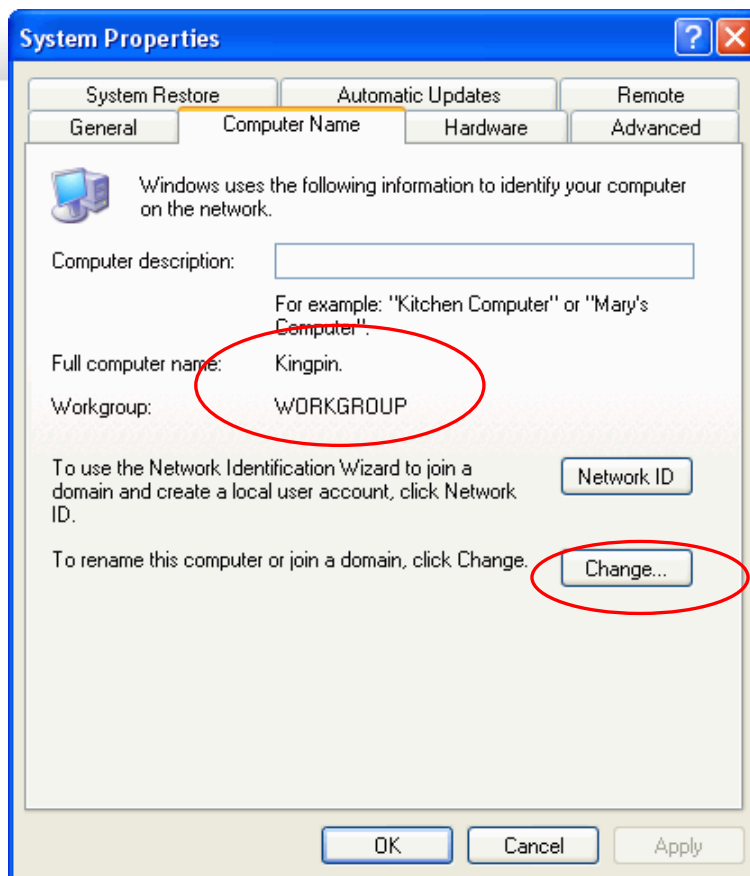


Check the computer name and the workgroup for PC

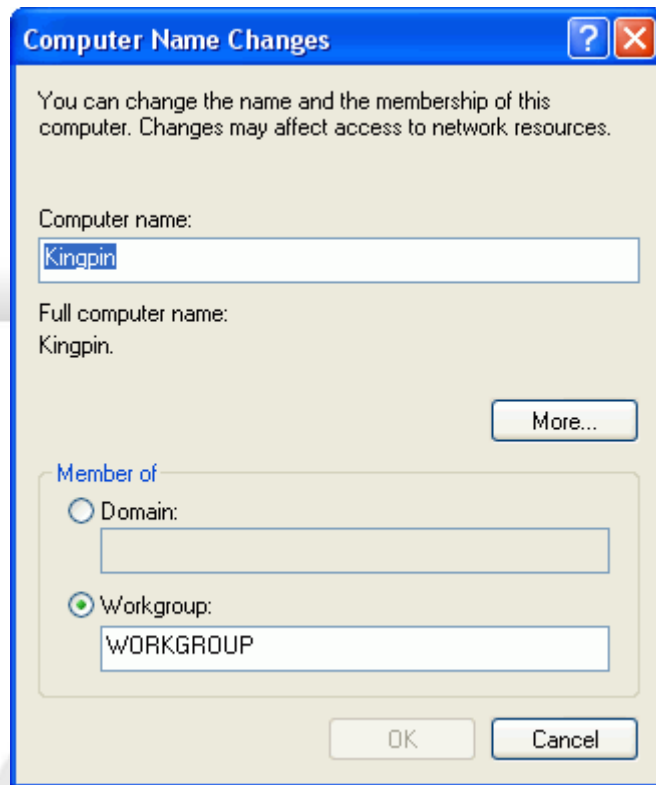
In the beginning, you need to check the computer name and the workgroup of your PC. The computer name and the workgroup are exposed in the LAN for being browsed and accessed. Right click on the “My Computer” icon and select the “Properties” to continue.



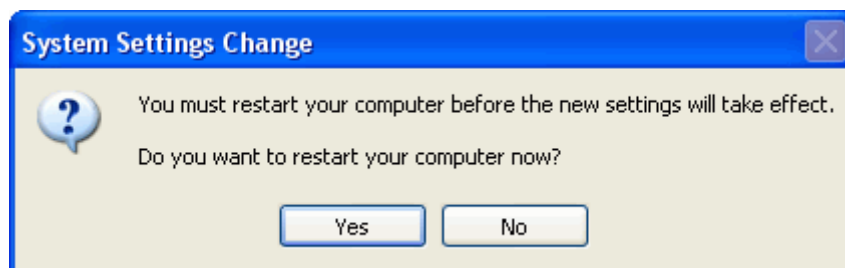
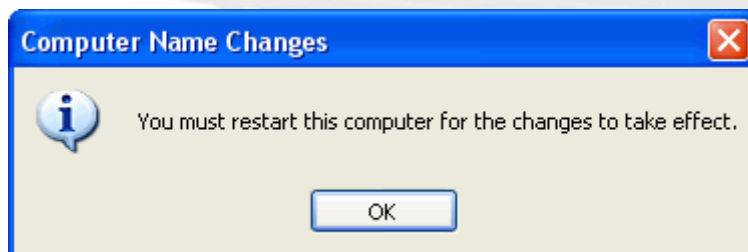
Select the tab “Computer Name” in the pop up window, and then check the Full computer name and the Workgroup. The computer name and the workgroup can be found by the other PC to browse and access. For the simplest network environment, we recommend choosing “WORKGROUP” as your workgroup. The workgroup and the computer can be found by the player in the procedure later. If you want to change the computer name or workgroup, click the “Change..” button to the next step.



After clicking the “Change..” button, the change window shows. Input the new computer name and the workgroup in the respective fields and then click “OK”.

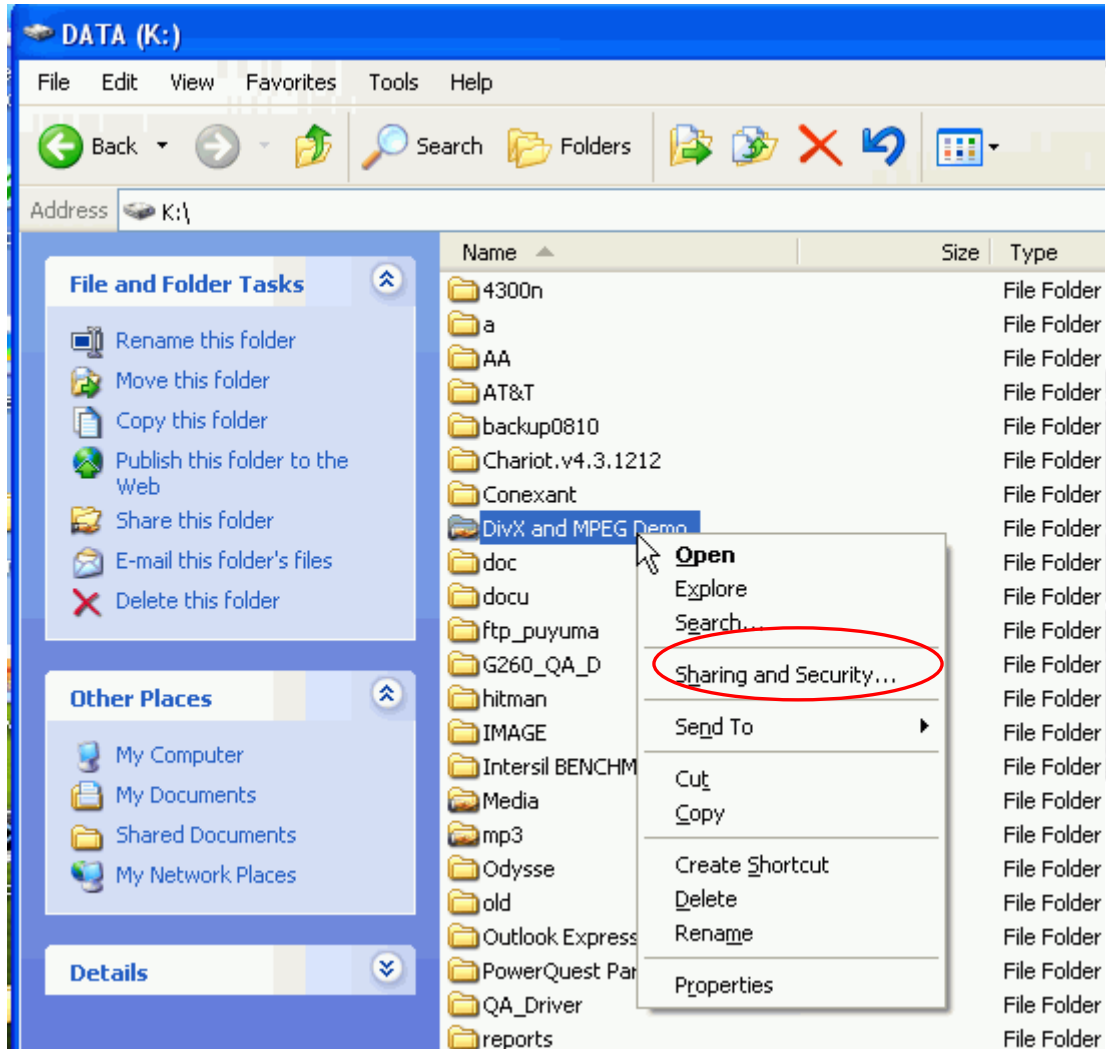


When applying the new computer name and the new workgroup, the system will remind you to restart the system to take effect. Confirm it in the next two windows. The PC will restart.

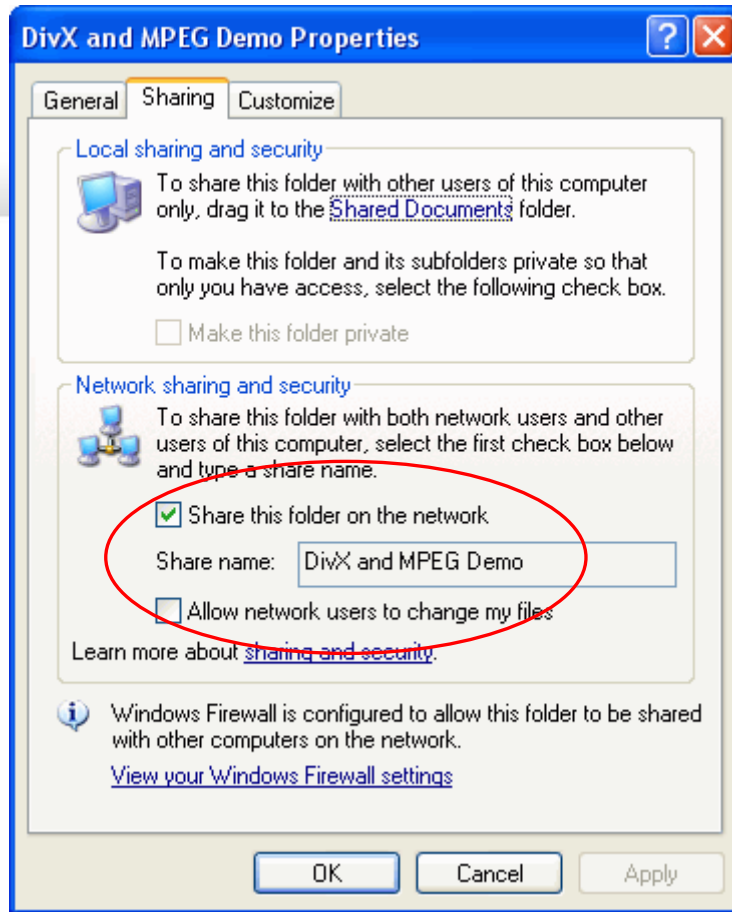


Setup the share folder on PC

Now you can choose the folder to be shared. The shared folder can be accessed by the player or other PC in the LAN. In order to browse the media files on your PC from the player, you have to put the files in the folder and then make it to be a shared folder. Right click on the folder and select “Sharing and Security” to continue.



In the next window, select “Sharing” tab and check the option “Share this folder on the network” and then click “OK” to apply. You can select multiple folders to share.

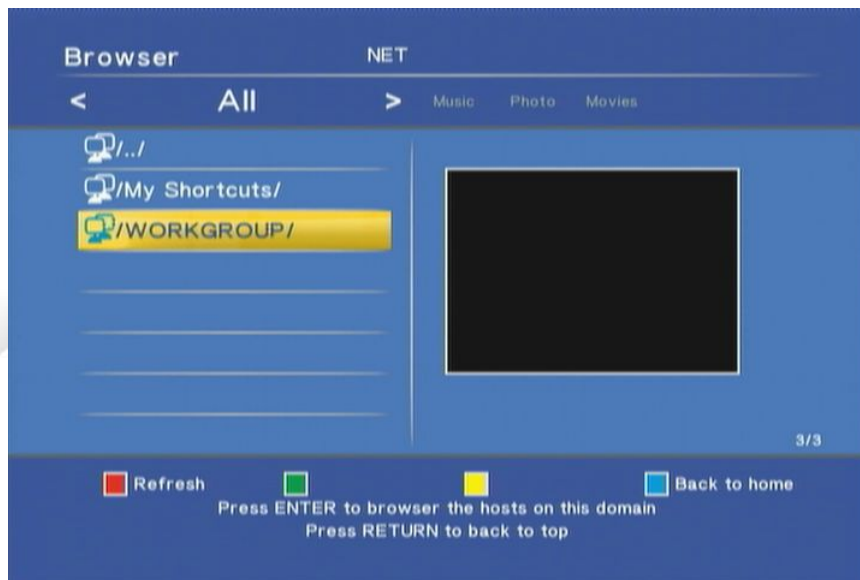


Browse and play the media on your PC

Now you can browse the folder on your player. Select “NET” in the first page. The scanned workgroup will be showed in the list. In our example, the /My Shortcuts/ and /WORKGROUP/ are displayed in the list. The /My Shortcuts/ is empty now because not set yet, so choose /WORKGROUP/. After entering the workgroup, you may find multiple computer names in the network depend on your network environment. Choose the one to continue.

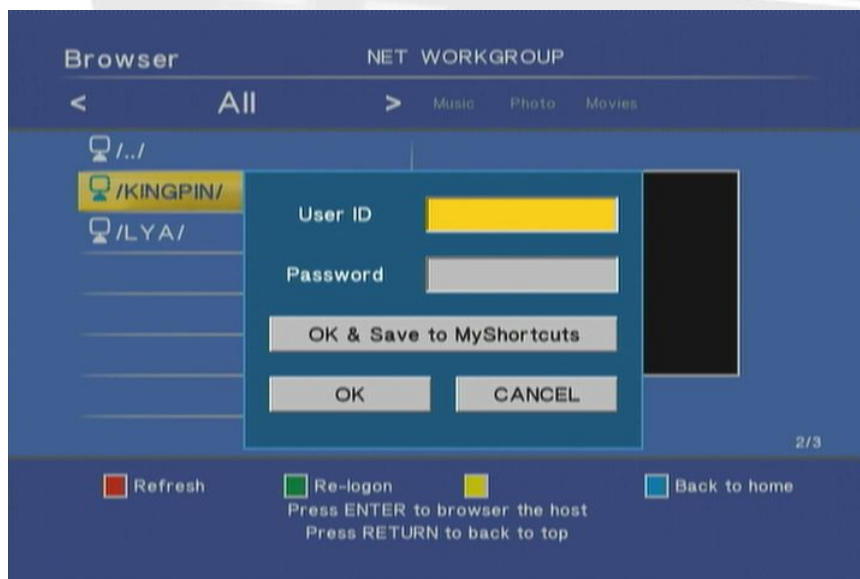
Red Key: in the network list, press it to refresh the list.

Blue Key: press it to return to the first page.

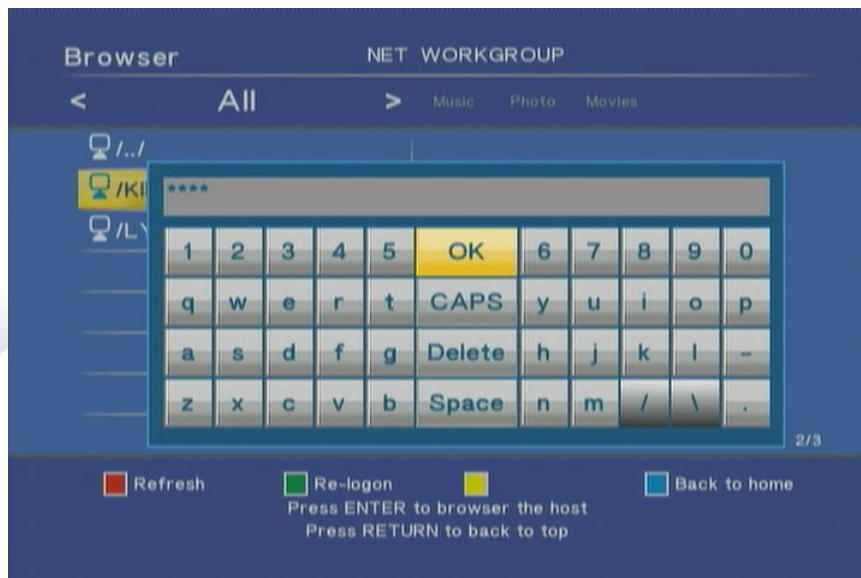


Generally you have an account name and password for login your PC. In the pop up window, enter the User ID (Account name) and password for login. Press “ENTER” key and the keyboard screen pops up.

Green Key: When you want to re-enter the User ID and the Password, press the key to pop up the window again to input them.



In the virtual keyboard, navigate the highlighted key on the keyboard and press “ENTER” key to input. When finished, select “OK” and press “ENTER” key to enter. After entering User ID, navigate the highlighted block to password field and input it via the same steps.



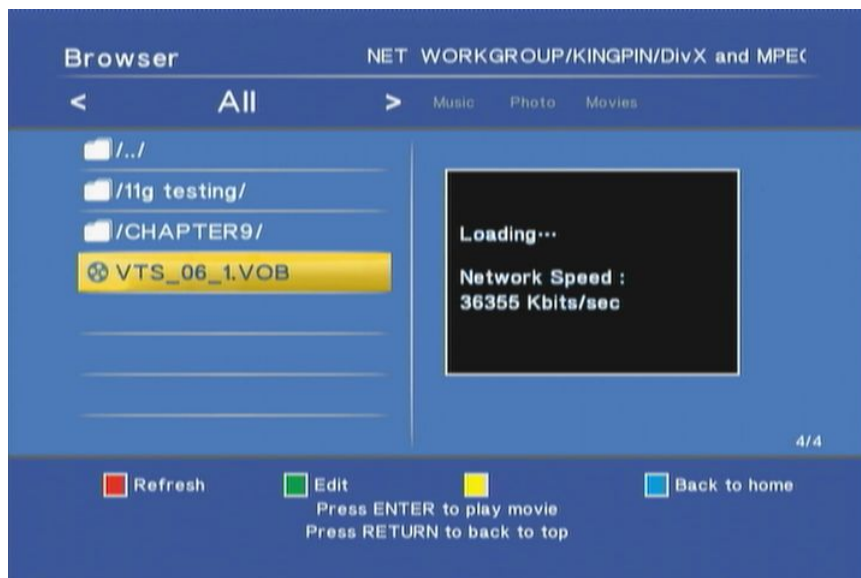
When the User ID and password are inputted, select “OK” to login and browse the file. For the frequent PC for sharing, select “OK & Save to My Shortcuts” to login and also add this account in the shortcut.

When entering the folder, select the file to browse. The Network Speed will be showed in the right panel. The operation of playback is the same as the previous section. Please refer it for the operation.

Red Key: Press it on the remote control to refresh the file list.

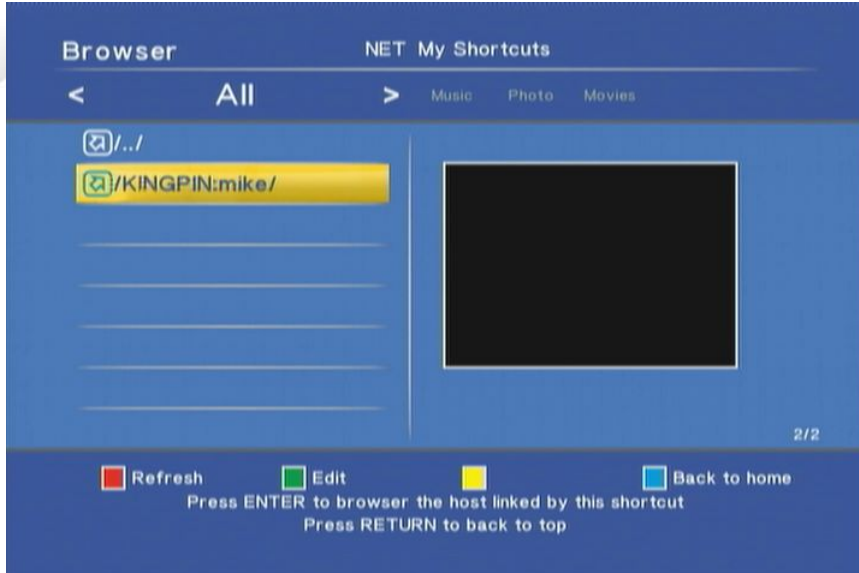
Green Key: Press it to edit the file. You can rename or delete the file. Please refer to the previous section for the details.

Blue Key: Press it to return to the first page.

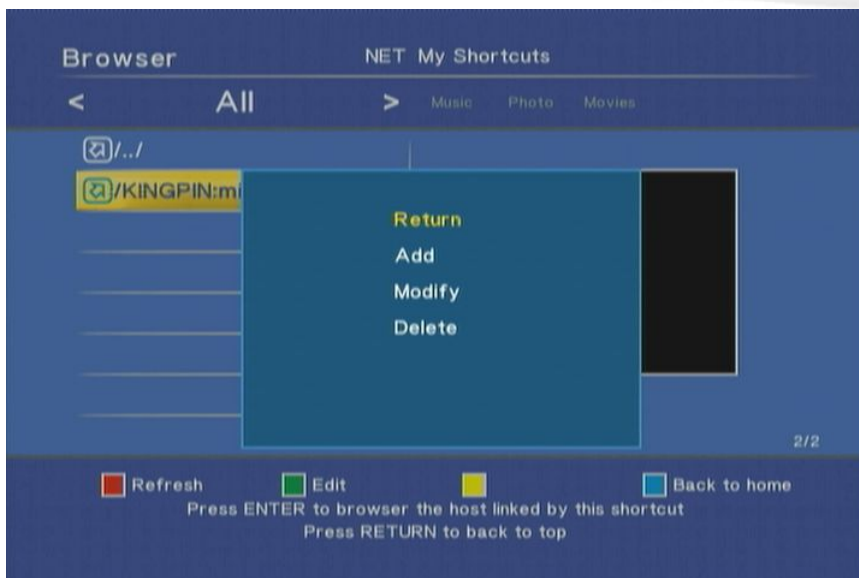


My Shortcuts

If you add the shortcut in the previous step, you can select the shortcut to login the PC. Select /My Shortcuts/ and then you can see the shortcut you have set. Choose it to enter without re-entering the User ID and Password. If you haven't set up the shortcut yet, you can add it manually. Press the green key to enter the edit window.

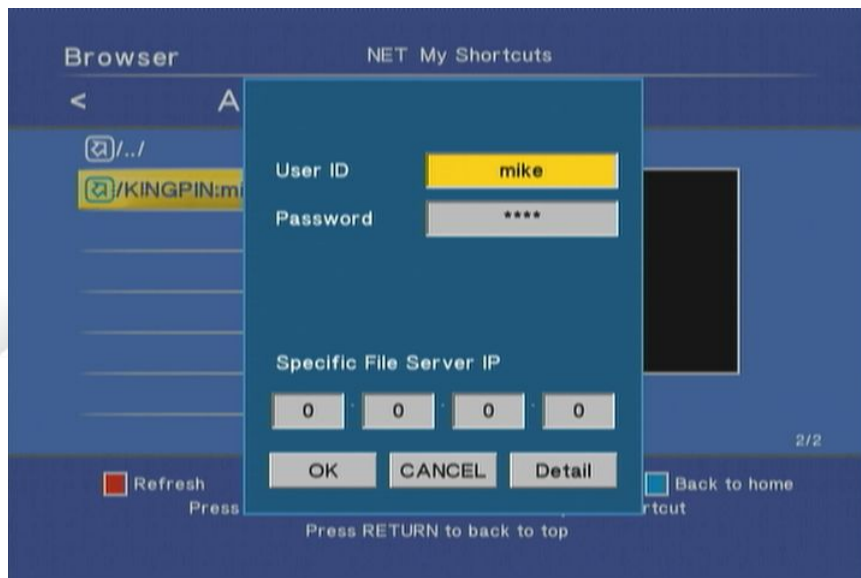


In the edit window of my shortcut, there are 3 actions can be taken. You can add a shortcut or modify a shortcut or delete the shortcut. The Modify and the Delete function can only be performed when at least one shortcut exists.

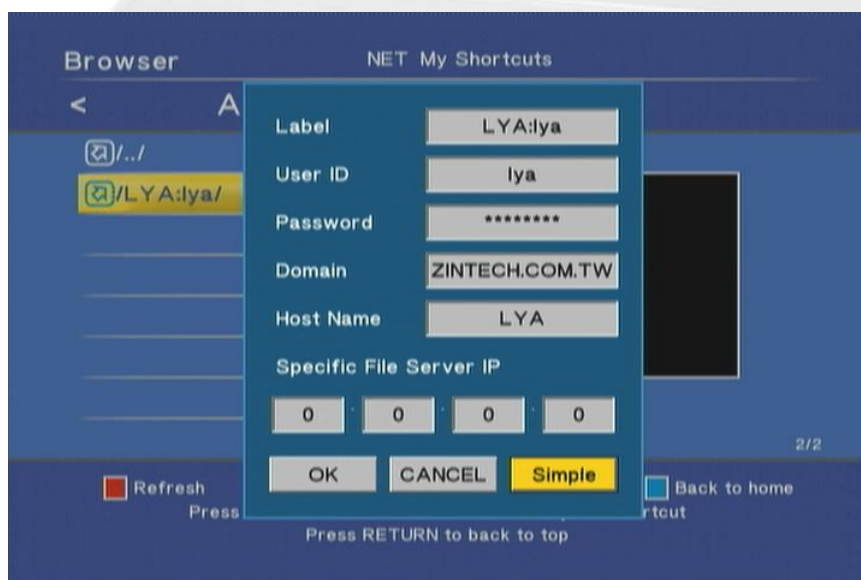


After choosing the “Add” or “Edit” function, the edit window shows. Select the field to input the value. For adding a shortcut, the User ID, Password and Specified File IP are required. Select the field to open the virtual keyboard to input.

Enter the IP Address: When entering the IP Address, just use the number key on the RCU to enter. No virtual keyboard pops for entering in these fields of IP Address.



Detail window: When adding a new shortcut or modifying a shortcut, select “Detail” block to open more fields to input. There are extra fields including Label, Domain and Host Name for enter or modify. Enter it if it is required in your network environment.



Multiple accounts for login: For the advanced user, he may hope to login the PC with more than one account with different priorities. For example, the administrator account for himself to login PC and the user account for the player to just browse and play the file. In this case, please refer to Windows help to add multiple accounts in Windows.

UPnP player

Besides the network player function in the previous section, this player also supports the UPnP player function for easier usage. The device can read the media library on the UPnP media server. The Music, Pictures and Video files on the server will be classified automatically so you can find the right kind of media files easily.

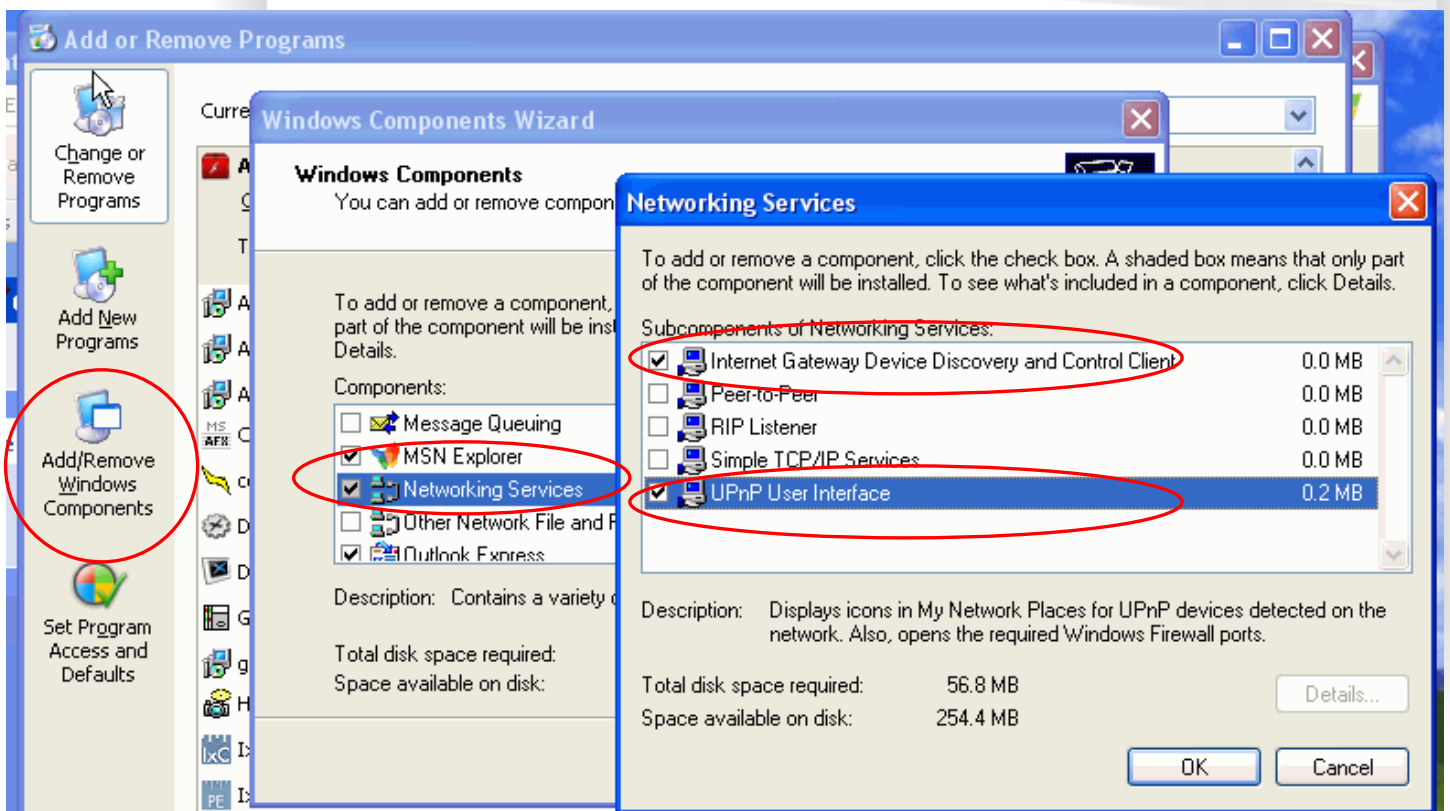
In this manual, we use Windows Media Player 11 as the UPnP media server. First we will learn how to enable the UPnP function in Windows XP, and configure the Media Player 11 to add the device, and then use the player to view the media files.

Note: For media player, the UPnP is only supported at version 11 or above in the future.

The setup for Windows XP

The UPnP User Interface isn't installed in the fresh Windows XP. You need to install it manually.

1. Open the "Control Panel", find the "Add or Remove Programs" and open it.
2. In the panel, click "Add/Remove Windows Components".
3. In the Windows Components Wizard, select "Networking Services" and click "Details..".
4. In the Networking Services, check the "Internet Gateway Device Discovery and Control Client" and "UPnP User Interface" and click "OK" to continue.
5. The installation will process automatically. When done, continue to the next phase.



After the installation of UPnP User Interface, you need to check if the related services running in the background. Open the “Control Panel”, and “Administrative Tools”, and then the “Services”. Find the items below in the “Services” and change their “Startup Type” to “Automatic” to make sure they run in the system background.

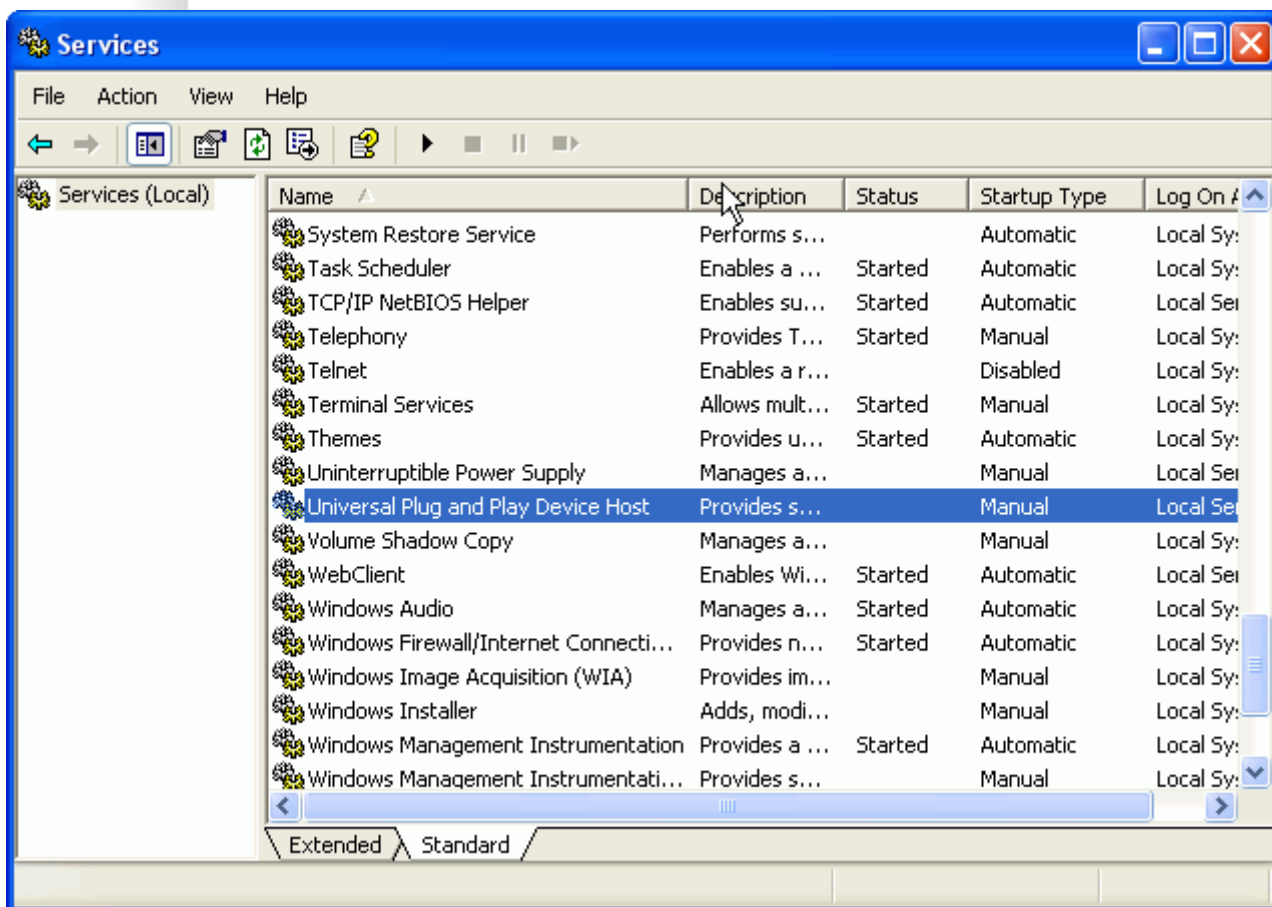
Check item:

Windows Media Player Network Sharing Service

HTTP SSL

Universal Plug and Play Device Host

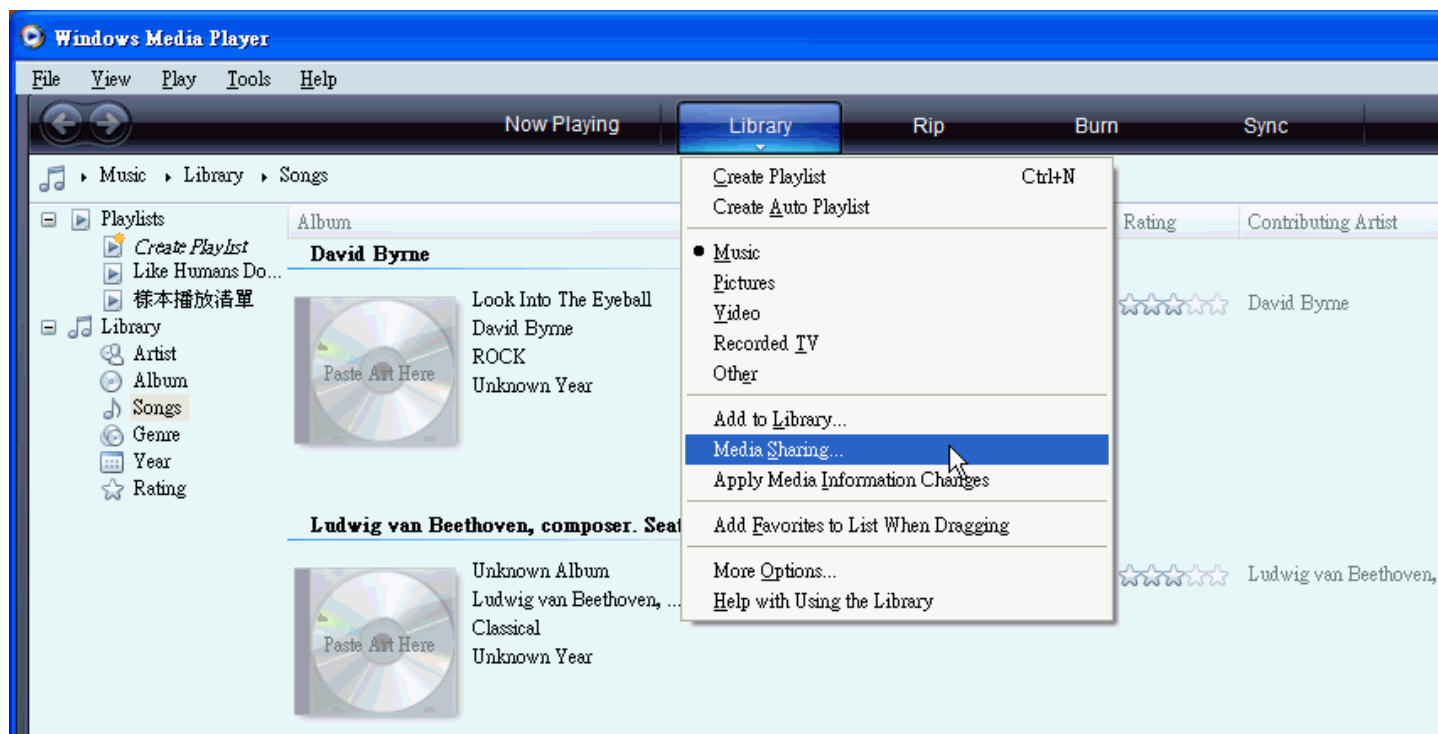
SSDP Discovery Service



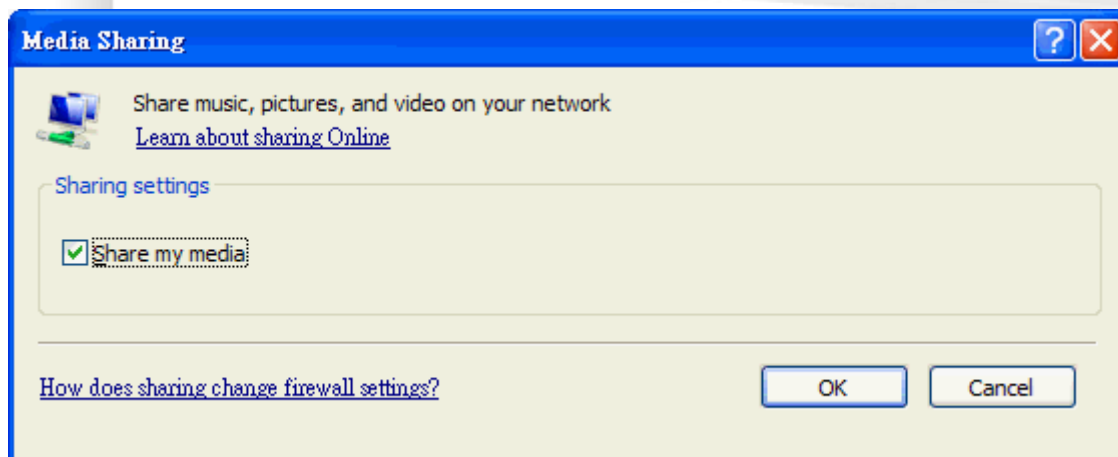
Note: For Windows Vista, the above procedure isn't required.

Windows Media Player 11 Setup (on Windows XP/Vista)

Before configuring Media Player, make sure the network is setup and passing through Ethernet or WLAN to this computer. Open the Media Player 11, and click the button “Library, Media Sharing”.

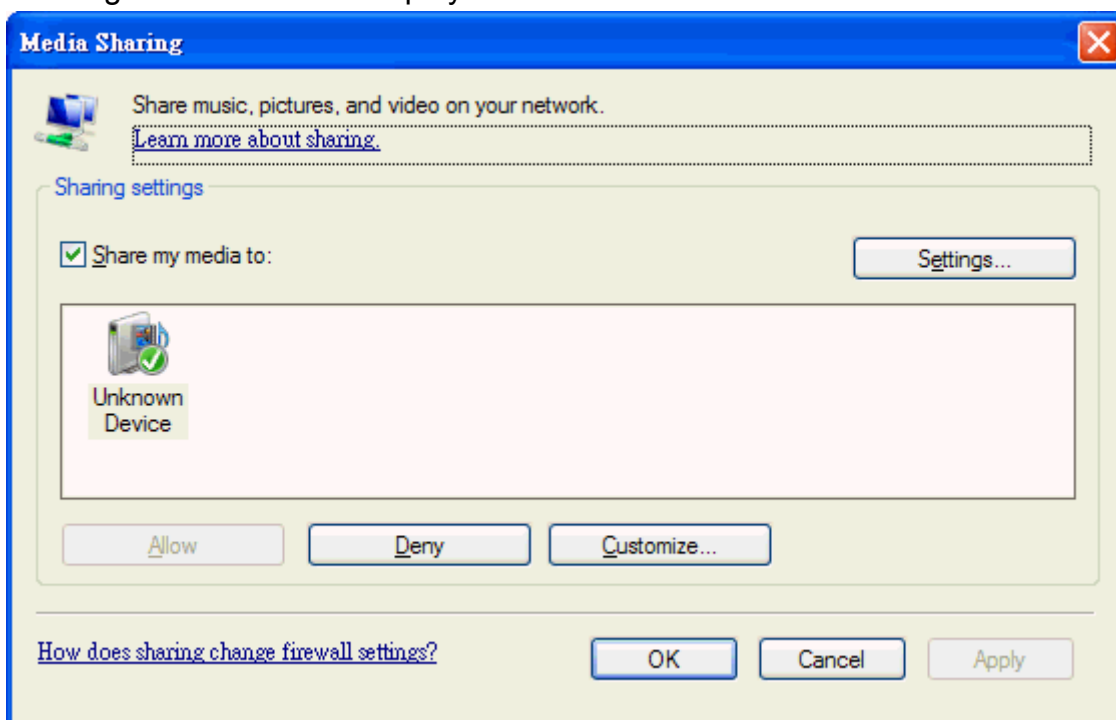


In the pop-up window, check the item “Share my media” and click “OK”.

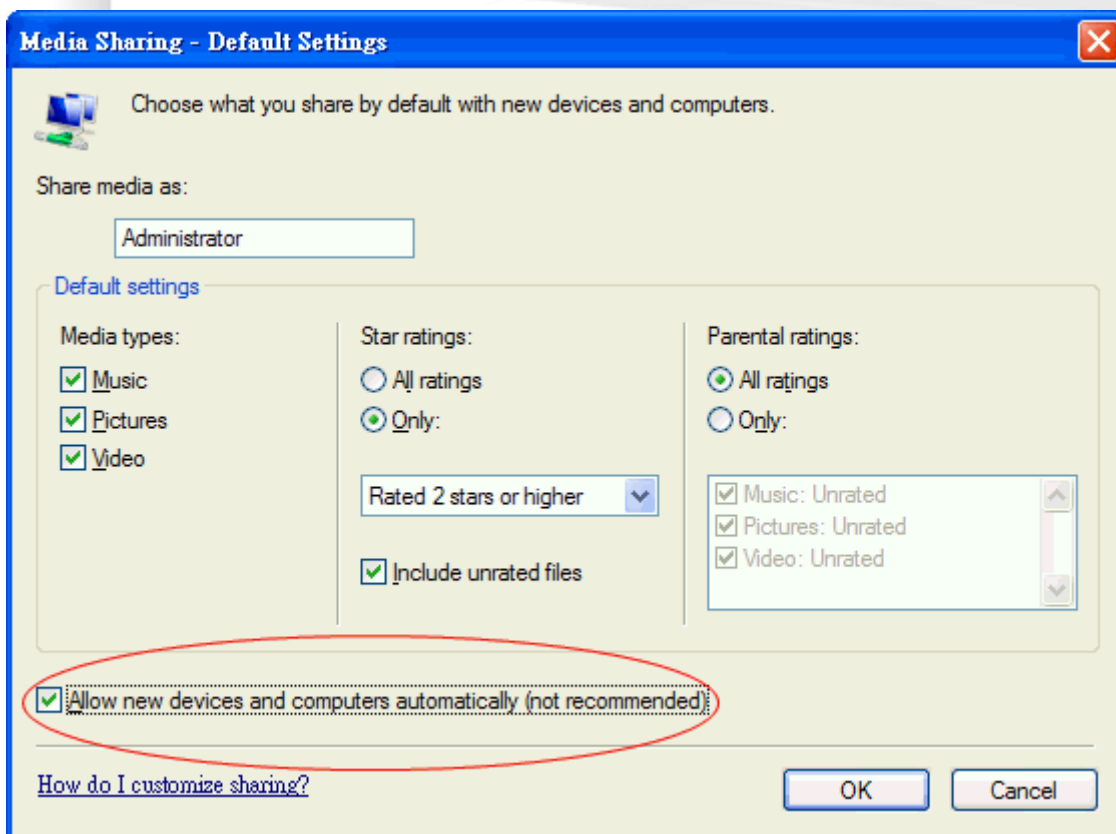


Now look at the TV screen to operate the player, go to the first page and enter “UPNP”. You should be able to see your computer in the list. Please continue to the next step to setup the Media Player.

The player should appear in the below window. Click “OK” to finish. If not, please operate the player to enter “UPNP” again and it should display.



If the player is still missing in the window, click “Settings” and check the option “Allow new devices and computers automatically (not recommended)”, and then operate the player to browse the UPnP. The player should be able to view the category in the UPnP media server now.



Import the media files on Windows Media Player 11

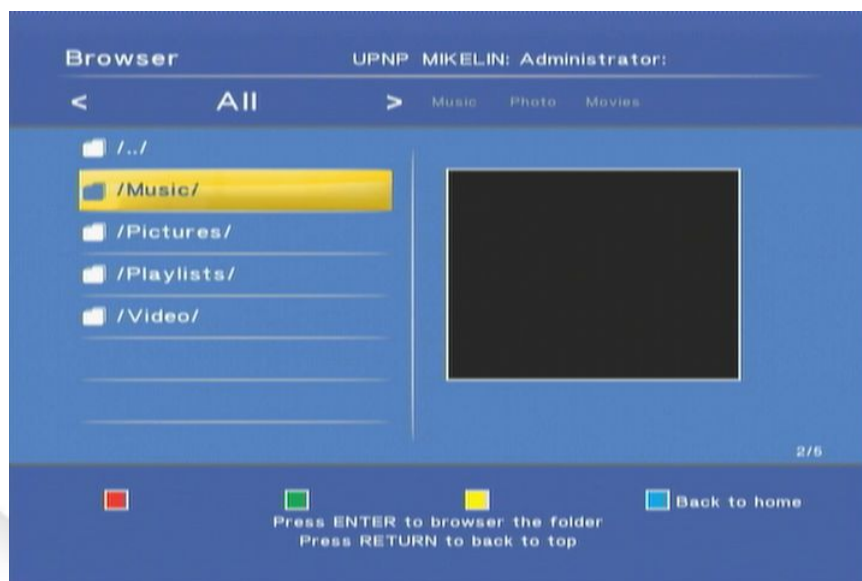
Click the button “Library, Add to library” on Windows Media Player 11 to add the media information into its database. The media files on the PC will be sorted by the Media Player 11. Please refer to Windows help for more setting.

Browse through UPnP

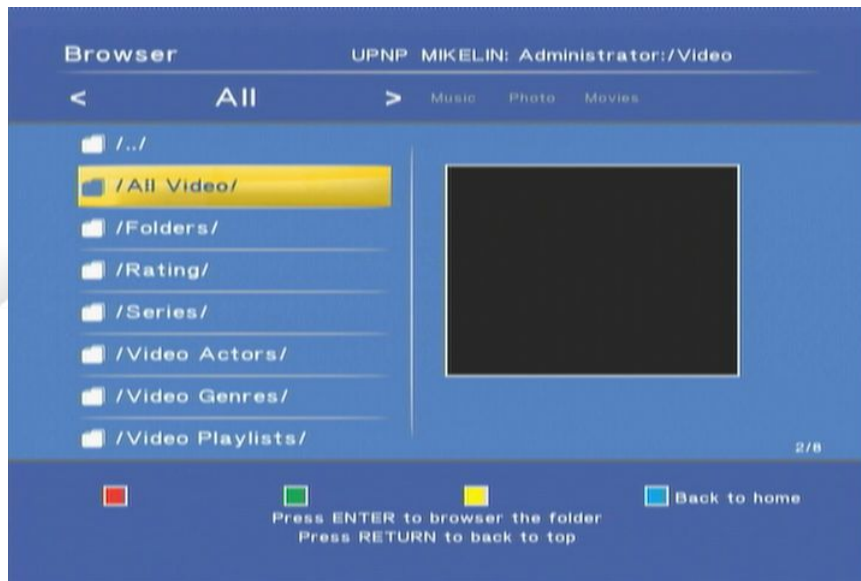
During the setup of Windows Media Player, we already browse the UPnP server on this player. Now, select the name of your computer in the list.



The media files on your computer are sorted into “Music”, “Pictures”, “Playlists” and “Video”. To watch the video files, select “Video” to continue.



You can see that the video files are sorted into Folders, Rating, Series and etc. Select one to browse and play the video.



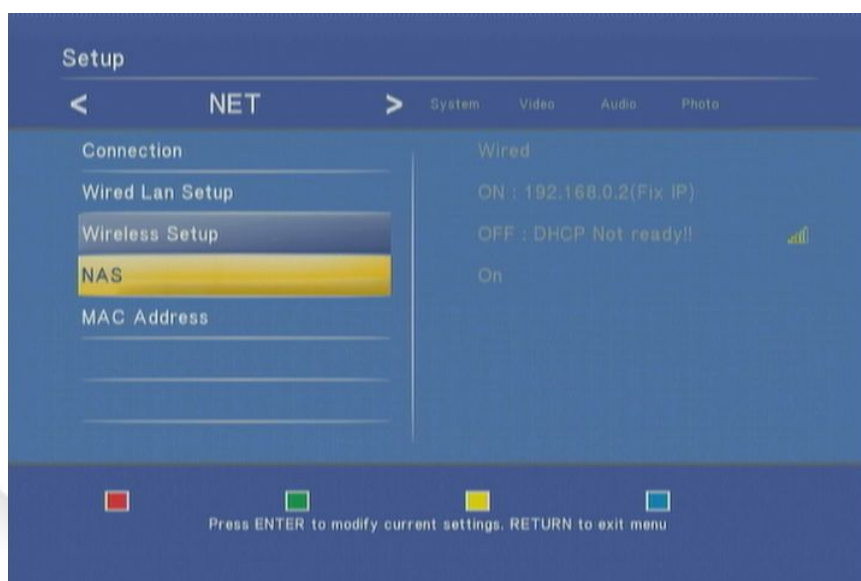
NAS function

This player allows the other hosts in the LAN to access its USB flash disk. Turn on the function for accessing it.

Enabling NAS function

Before enabling this function, you need to setup LAN or WLAN for this player. Please refer to the setup section to setup the LAN/WLAN connection.

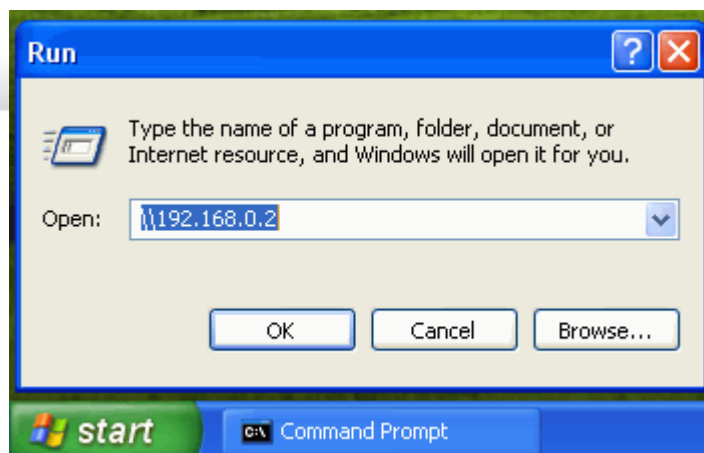
To enable NAS function, press “MENU” key to enter menu, and navigate to “NET”, “NAS”. Select NAS and choose “On” to turn on the function.



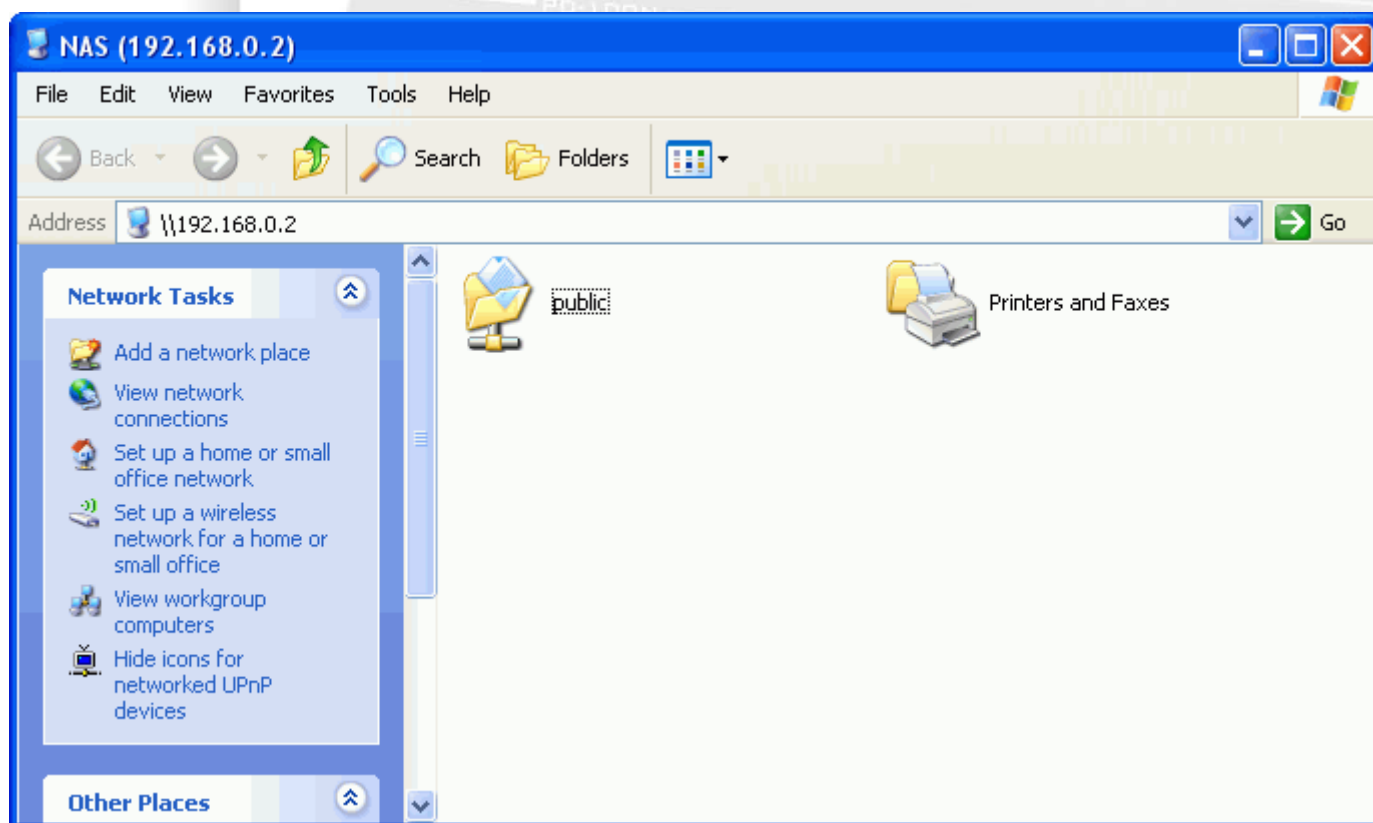
In the NET page, you can find the IP Address showed in the column of Wired Lan setup or Wireless Setup. Memorize this IP Address for accessing later.

Access NAS function

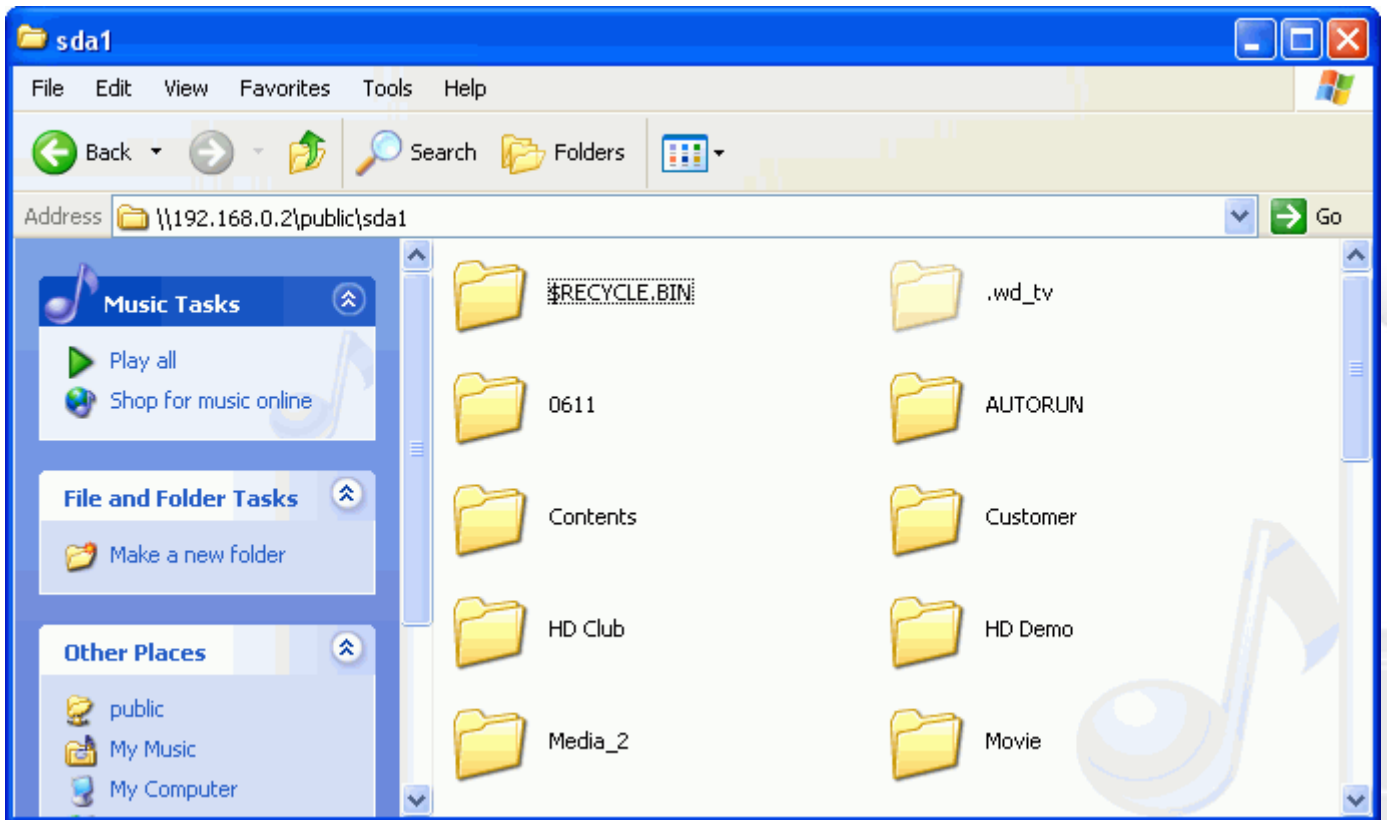
Open a PC in the same LAN/WLAN of this player. For example, open a Windows XP PC. Click “Start”, and navigate to “Run”. In the “Run” window, enter the command \\IP Address which is the IP Address you memorized for this player in the previous section.



Click “OK” to input command. Wait a while and the browse windows pops up. Click the folder “public” to continue.



In the next window, you may see one or two folders depending on how many USB Storages connecting to the player. Choose one to enter. You can see the folders and files in the USB storage, and you can browse, play, rename, copy, or move the folders or files now.



Maintenance

Reset the device

You can press “MENU” to open the setup menu. To Reset the device, navigate to Setup menu and select “Restore Default” and press “ENTER”. Please refer to setup section for the details.

Power on/Standby time

The device needs sometime to power on. The time costs are listed below.

Plug in the power -> power on and ready to use: it takes about 27 seconds.

Power on status -> Standby mode by pressing the power button: it takes about 16 seconds.

Standby mode -> power on mode by pressing the power button: it takes about 10 seconds.

In this short time, the remote control unit and the power button are not functional.

Battery

When the distance of remote control is dropped dramatically, please replace the new battery for the remote control.

Black screen

If you get black screen while starting to play Movie or Photo files, please check the connection from TV to the device and the resolution. Press “RESOLUTION” key to change the resolution until the screen displays. For HDMI connection, select “HDMI Auto” to detect the resolution of TV set automatically. For CVBS, it always output SD 480i/576i so you can change to CVBS to check the setting of player.

Can't use Thumbnail function

Check the tab in the top. The thumbnail function can only be toggled under “Photo” tab. The second point is to make sure to enter the folder and browse the photo files, and then press the yellow key for thumbnail view.

If browsing photos through UPnP function, the thumbnail function can't be enabled. Please try to use Network player function to browse the photos.

Can't see subtitle through UPnP playback

The file of subtitle isn't supported by UPnP media server, and therefore the external subtitle file can't be loaded while watching video though UPnP function. Please try to use Network player function to play video with subtitle file.

Can't playback the video

If you found some video files can't be playback by this device and reported the invalid format

message, please use the free PC software “MediaInfo” to check the video codec with the codec table in the manual. If it is not in the table then the player can’t support it. Please visit the URL to download the software <http://mediainfo.sourceforge.net/> .

Can’t playback the audio in the Movie

If you don’t hear the audio while playing the Movie, it could be a DTS audio track and the player is an un-licensed model. Try pressing “Green” key on the RCU to switch to the other sound track like AC3 while playing the audio.

The second point is to check the audio setting. Choose the correct setting according to your device. Please refer to the audio setting pages in this manual.

Connect DVI to HDMI converter

When using the DVI to HDMI converter to connect the player, some LCD monitors could only accept the SD video. This player detects the support format of the LCD player and locks the HD option if the monitor doesn’t support it. In this case, the player output SD video to the monitor.

Smooth playback through Ethernet/Wireless LAN

For the Ethernet connection, check if use at least 10/100 Mbps Ethernet switching Hub and the 10/100 Ethernet adapter on PC.

For Wi-Fi Dongle, we recommend using Infrastructure (AP) mode and “NO” or “WPA/WPA2-PSK_AES” for the maximum data rate. In the other mode such as encrypted with WEP, TKIP algorithm, or use Ad Hoc as the radio mode, the data rate is only up to 54 Mbps (802.11 g).

TV Overscan issue

Some video can’t be watched as full frame on TV set. The edges on the both sides may be outside the TV screen. In such case, press the Zoom “-” key to zoom out the video to fit the screen.

Video/Audio codec support for PD-100N

Codec		Feature	Others	File container	
Movie Video	AVC	H.264 BP@L3.1	480p, 10 Mbit/s	AVI	MP4
		H.264 MP@L4.1	720p, 50 Mbit/s	FLV	MTS
		H.264 HP@L4.1	1080p, 62.5 Mbit/s	M2TS	TP
				MKV	TRP
				MOV	TS
	Flash Video	H.264 Sorenson H.263	352x288		FLV
	Motion JPEG	M-JPEG	640x480x30p		AVI MP4 MOV
	MPEG-1	MPEG-1	MPEG-1 up to 1930x1080x30p VCD		DAT TP MPG TRP MPEG TS
MPEG-2	Up to MP@HL	1080p, 80 Mbit/s		DVD-ISO MPEG IFO TP M2TS TRP MKV TS MPG VOB	
MPEG-4 SP/ASP	DivX 3.11 DivX 4.12 DivX 5 DivX 6 DivX HD Xvid	1080p Xvid: GMC function not support		AVI DIVX MKV	
Quick Time	H.263 H.264	1080p		MOV	
Real Video	Real Video 8, 9, 10	Up to 720p@30f		RM/RMVB	

	WMV, VC-1	WMV9 VC-1 AP@L3	VC-1 1080p, 45 Mbit/s	ASF AVI M2TS MKV MTS	TP TRP TS WMV
Movie Audio	Dolby Digital	AC3, DD Plus, TrueHD	7.1 down-mix* Digital pass-through		
	DTS	DTS, DTS HD Master Audio, LBR	7.1 down-mix* Digital pass-through		
	LPCM				
	MPEG I	MPEG I Layer 1, 2, 3 (2CH)			
	MPEG II	MPEG II Layer 1, 2 (Multi-Channel)			
	MPEG-4 HE AACv2				
	Real Audio	RA1/RA-cook/RA-lossless			
Music	AAC	MPEG-2/4 LC/HE profile AAC+ ver 1/2 iTune M4A	UP to 288 kbps	AAC MP4 M4A	
	FLAC		2 channels, VBR		
	MP3	MPEG-1 Layer 3	2 channels, 8~320kbps, VBR M3U (MP3 list) supported	MP3	
	OGG Vorbis		Sampling rate: 32K, 44.1K, 48K, 64K, 88.2K, 96K, 176K, 192K	OGG	
	WAV	LPCM, ADPCM		WAV	
	WMA	WMA ver. 9.1 (2 CH) WMA Pro 9.1 (Multi-CH)	WMA: CBR up to 320kbps, VBR up to 256kbps	ASF WMA	
Photo	JPEG	Baseline JPEG	Up to 40 M-pixel with unlimited resolution	JPG JPEG	
	BMP, PNG, GIF, TIF, TIFF		Width <=3968 pixel		

*: The 7.1 down-mix for DTS and Dolby TrueHD function is only available on licensed model.

Specification

Specification	Model name	PD-100N
	Disc format	FAT16/FAT32/NTFS/UDF/EXT3
	Subtitle	Chinese Traditional/Chinese Simplified/UTF8/Europe
	Video capability	1080p HD decoding & video output SD to HD video upscaling SD & HD video output simultaneously CVBS & HDMI output simultaneously
	Aspect ratio	Pan Scan 4:3 / Letterbox 4:3 /16:9
Interface	Video output	CVBS composite RCA Video HDMI 1.3
	Audio	Analog: AUDIO L/R RCA Digital: TOSLINK for SPDIF, HDMI
	USB	USB 2.0, 5V~1000mA Support USB external HDD, USB Flash Disk
	Network	10/100 Mbps RJ-45, SAMBA Client, UPnP Client
	Optional Wi-Fi dongle	USB wifi 11n dongle ZW-N590, SAMBA client, UPnP
Multimedia Playback	Movie Video format	AVC H.264 (AVI / M2TS / MKV / TS) DivX 3/4/5/6/HD, Xvid (AVI / DIVX / MKV) Flash Video (FLV) MPEG-1 (DAT / MPG / MPEG) MPEG-2 (IFO / ISO / M2TS / MPG / MPEG / TP / TS / VOB) MPEG-4, M-JPEG (AVI / MP4) Quick Time (MOV) Real Video 8/9/10 (RM / RMVB), up to 720@30p VC-1 (AVI / M2TS / MKV / TS / WMV) WMV 9 (ASF / WMV)
	Movie Audio format	Dolby Digital AC3/Plus/TrueHD, DTS/HD Master Audio/LBR*, LPCM, MPEG-I Layer 1/2/3, MPEG-II Layer 1/2 multichannel, MPEG-4 HE AACv2, Real Audio Support 7.1 audio channels
	Subtitle format	srt, sub, smi, ssa, ass, idx+sub, DVD subtitle, DivX subtile
	Music format	MP3, WMA, WAV, ASF, AAC, OGG Vorbis, MP4, iTune M4A(AAC), M3U(Playlist)
	Photo format	JPG(40-mega pixel without limitation of resolution, Baseline), BMP, PNG, GIF, TIF, TIFF

Housing	Button	Power/Standby
	LED	Power, USB
	Power rating	+12V $\overline{=}$ 1.5A
	Power consumption	Operation: 5.5 W (USB device consumption not included) Standby: 0.5 W
	Size	115x171x37 mm (L x W x H)
	Operation temperature	0~40 Celsius

*: The 7.1 down-mix for DTS and Dolby TrueHD function is only available on licensed model.

