

# CIMP1080AHD / CIMP1080HHD

## Quick Start Guide

The CIMP1080AHD is a standalone digital signage DVI player capable of delivering high definition content. It can play high quality photos and videos from either its internal storage (Compact Flash or USB flash drive) or via intranet / internet HTTP server.

The [CIMP1080HHD](#) shares all the software and user functions of the CIMP1080AHD but has HDMI output instead of DVI.



# Contents

## 1. Introduction

- 1.1 Operation Type
- 1.2 Operation Mode
  - 1.2.1 Autoplay Mode
  - 1.2.2 Interactive Mode
- 1.3 System Requirements
  - 1.3.1 Display
  - 1.3.2 Storage
- 1.4 Product Components
- 1.5 Remote Control Hot Keys

## 2. System Installation and Setup

- 2.1 Standalone Display
- 2.2 Internet and Real-time Network Mode
  - 2.2.1 Internet Update
  - 2.2.2 Real-time Update
- 2.3 Playlist and Message Setup

## 3. Configuring the CIMP1080AHD

- 3.1 Video / Audio
  - 3.1.1 Video Configuration
  - 3.1.2 Audio Configuration
- 3.2 Server Setup
- 3.3 LAN Setup
- 3.4 WLAN Setup
- 3.5 Screen
  - 3.5.1 Auto Run Configuration
  - 3.5.2 Slide Effect
  - 3.5.3 Message Caption
  - 3.5.4 Auto Scaling
- 3.6 Time
  - 3.6.1 Current Time Setting
  - 3.6.2 NTP Server
  - 3.6.3 Time Zone
  - 3.6.4 Time Display / Color / BG Color
  - 3.6.5 Auto On / Off
- 3.7 Advanced Setup
  - 3.7.1 Screen Saver
  - 3.7.2 File Sort
  - 3.7.3 OSD Message On / Off
  - 3.7.4 Language Support
  - 3.7.5 Font Size
  - 3.7.6 Return to Initial State
  - 3.7.7 Software Upgrade

## 4. File Support

# 1. Introduction

## 1.1 Operation Type

The CIMP1080AHD is a standalone high definition digital signage player that is also capable of limited network playback through an HTTP server.

### **Standalone player**

Plays advertising content located on internal or external storage, such as a USB flash drive or Compact Flash memory card.

### **Real-time streaming using local PC server**

Plays advertising content located on a PC server that is connected via LAN. You will not need storage media for this option and content will be controlled by using a text-based playlist file.

### **Internet update using HTTP server**

Plays advertising content located on an internet HTTP server PC server that is connected via internet. You will need a compact flash card as your storage device and content will also be controlled by using a text-based playlist file.

## 1.2 Operation Mode

The CIMP1080AHD is set to **autoplay** mode by default. In this mode, the player will automatically start in playback mode and read the storage devices for media content. If both a USB flash drive and CF card are used, the USB drive will have playback priority. The CIMP1080AHD can also start in **interactive** mode by disabling **autorun** in the main menu. In interactive mode, the user will use the remote control and manually select what media to play.

### 1.2.1 Autoplay Mode

There are 6 selectable autoplay modes to select from.



Disable: Auto play mode off

All files: plays all files in the storage device

Movie: plays movie only

Music: plays music only

Picture Slide: show picture with configured slide effect

Music Slide: play picture and movies with background music

## 1.2.2 Interactive Mode

If the CIMP1080AHD starts in **interactive** mode, the main navigation browser will be displayed after power up. Use the remote control and manually select a media item to play.



**Movie Menu** - Go to movie navigation browser. User can select folder, file and play a movie. **Photo Menu** - Go to photo navigation browser. User can select folder, file and play a photo. **Music Menu** - Go to music navigation browser. User can select folder, file and play a music. **Setup Menu** - Go to system setup navigation browser. User can configure the system.

## 1.3 System Requirements

### 1.3.1 Display

VGA or DVI input display with stereo input.

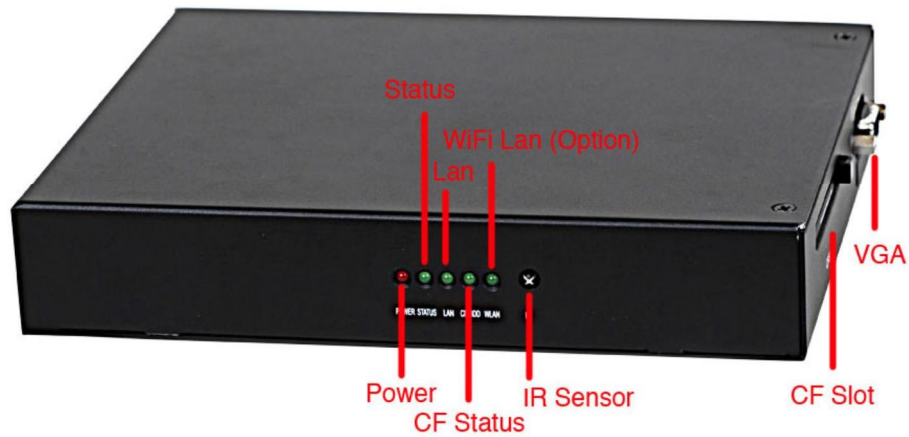
### 1.3.2 Storage

- High speed Compact Flash card
- High speed USB Flash drive
- FAT, FAT32 file system format on the flash media (the player does not support NTFS)

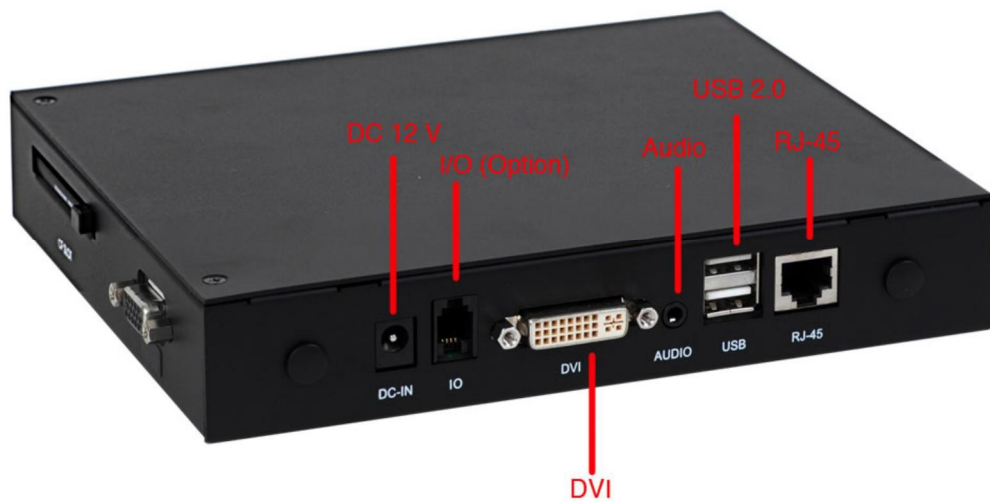
## 1.4 Product Components

- CIMP1080AHD / CIMP1080HHD HD Digital Signage Player
- Remote Control
- VGA Cable
- Audio Cable
- Power Adapter

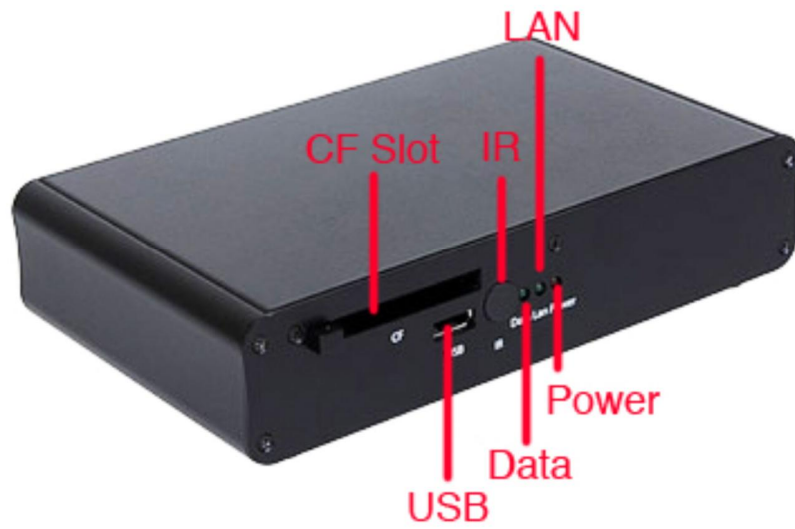
### Front View (CIMP1080AHD)



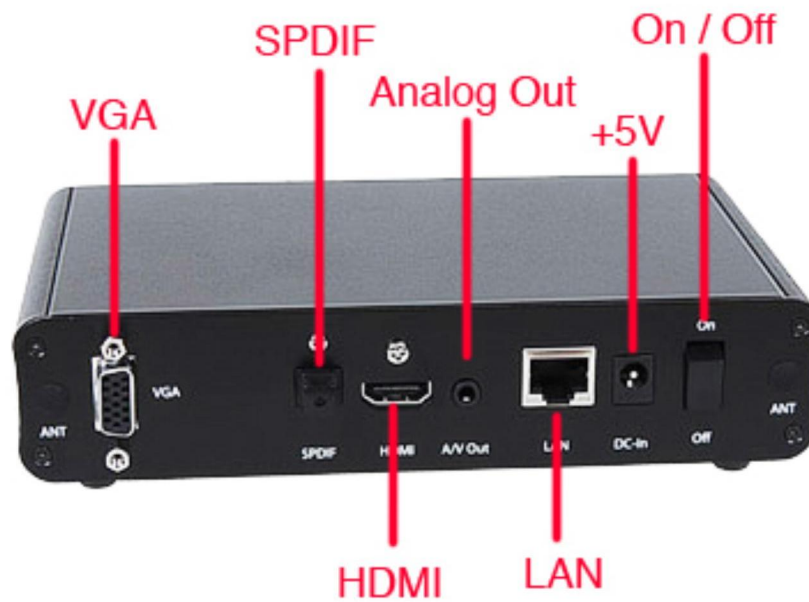
### Back View (CIMP1080AHD)



Front View (CIMP1080HHD)



Back View (CIMP1080HHD)



## 1.5 Remote Control Hot Keys

The AUDIO button is used to toggle audio output port but currently, the CIMP1080AHD currently only supports Stereo mode. This button is reserved for future use.

The DISPLAY button is used for toggling the video output mode in this order; VGA, DVI, S-Video and YPbPr. User must configure video resolution after the player sets to the specified video mode. User must wait at least 3 seconds to change to a new video output mode.

The SCR SIZE button is used to toggle video screen ratio between 16:9 and 4:3 during playback. This setting is applied only for current picture or video.

The VIDEO button is used to navigate to the movie navigation browser. This button can be used at main navigation browser, music browser and photo browser. This button is not accepted at setup navigation browser.

The AUDIO button is used to navigate to the music navigation browser. This button can be used at main navigation browser, movie browser and photo browser. This button is not accepted at setup navigation browser.

The PHOTO button is used to navigate to the photo navigation browser. This button can be used at main navigation browser, movie browser and music browser. This button is not accepted at setup navigation browser.

The SETUP button is used to navigate to the main setup screen. This button can be used at main navigation browser, movie browser and music browser.

The AUTO button is used start **autoplay** mode. This button can be used at main navigation browser, movie browser and music browser.

# 2. System Installation and Setup

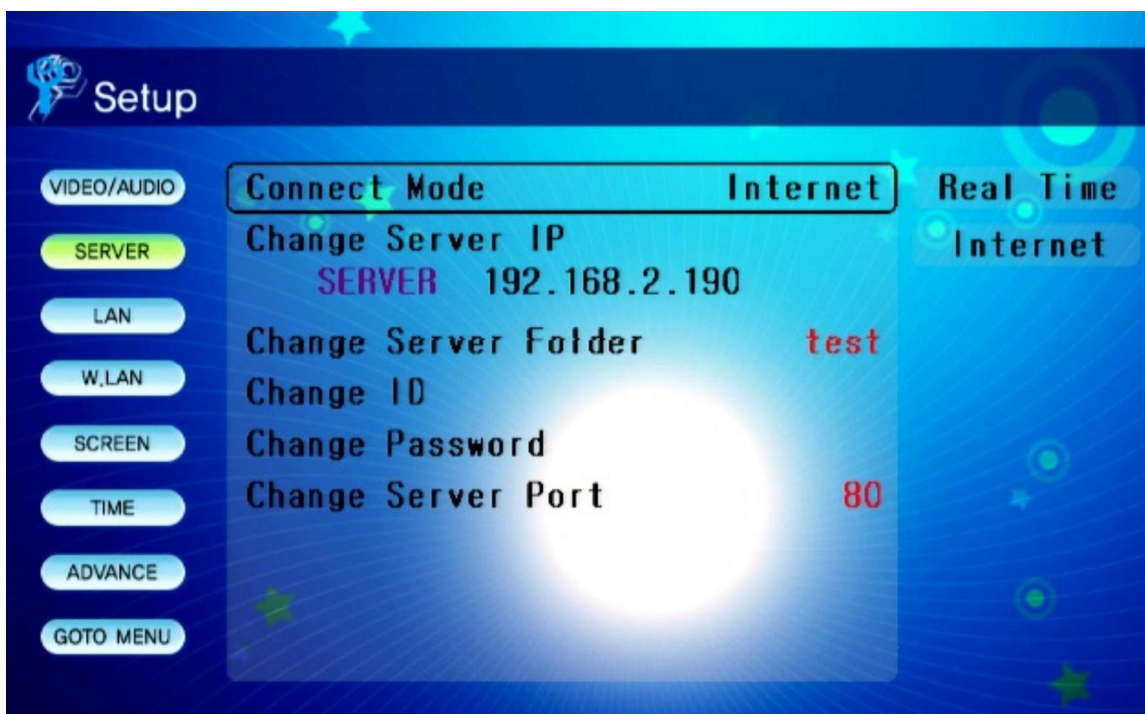
## 2.1 Standalone Display

The CIMP1080AHD by default is setup as a standalone digital signage player. It will read contents from either a compact flash card or USB flash drive and output to your display.

1. Connect the audio and video cable to the CIMP1080AHD and the display.
2. Insert CF card or USB flash drive into the memory slot on the CIMP1080AHD (note that USB has priority over the CF slot. All media contents need to be stored in the root folder on the storage device).
3. Connect the 12V DC power adapter.
4. Once the contents are preloaded, the CIMP1080AHD will start playback automatically.

## 2.2 Internet and Real-time Network Mode

In addition to standalone mode, the CIMP1080AHD can also take advantage of realtime network update via a local LAN server or the internet from an HTTP server. A text based **playlist** (see 2.3 below) file is used to update content in addition to scheduling time and date playback. Make sure folder and file sharing permissions are enabled on the server before attempting to connect.



### 2.2.1 Internet Update

**Internet** mode is used when there is a server outside of the local network that the CIMP1080AHD is located at. This server (most likely HTTP server) will contain the **playlist** and **media content** files which the CIMP1080AHD will download to its storage media, read and then playback.

## Internet mode setup on HTTP server

1. Create folder in root directory of HTTP server.
2. Add media files in the folder and enable permissions.
3. Create a text file and name it **playlist.txt** (see section 2.3).
4. If adding a scrolling message, create another text file and name it **message.txt** (see section 2.3).

## Internet mode setup on CIMP1080AHD

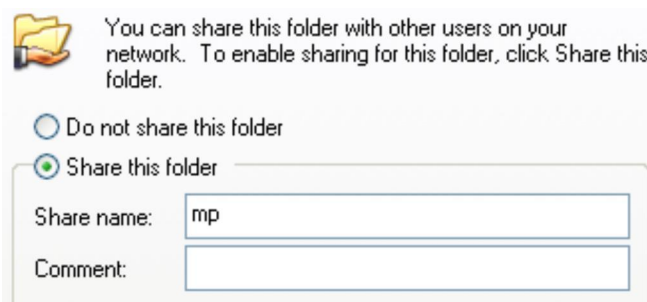
1. Insert a blank CF card into the CIMP1080AHD and plug in the network cable to the side RJ45 port.
2. Go to server setup in the main menu and enter HTTP server IP address.
3. Enter the server folder where the files reside and port number. In most cases, the port number will be 80.
4. Restart the CIMP1080AHD.
5. After rebooting, the CIMP1080AHD will allocate a network address from the local router and attempt to locate the HTTP server. If successful, the **playlist** will be downloaded first, followed by the contents and playback of the media files in the order that they appear on the playlist. If certain files are scheduled, the CIMP1080AHD will skip over them until the correct time and date specified on the playlist. By default, the CIMP1080AHD will check for a new playlist update every 1 to 2 minutes and this option cannot be changed.

### 2.2.2 Real-time Update

Much like **internet** update mode, **real-time** mode uses a **playlist** file to administer media contents. Unlike internet mode however, real-time is typically used in a LAN environment and without a storage device (no CF card or USB drive) in the CIMP1080AHD - the player will “stream” the media file straight from the server. The most apparent advantage is since media files will be streamed from a server hard drive, storage capacity will exceed the 4GB maximum supported size for both compact flash and USB solid state media. However when there are more than two or three CIMP1080AHD units connected to the server, network bandwidth speed during video streaming could diminish.

## Real-time mode setup on local server

1. Create folder on C: drive of the server.
2. Right click on the folder and select **Sharing and Security** from the menu.
3. Select **Share this folder** and input the same share name as your folder.



4. Add media files in the folder and enable permissions.
5. Create a text file and name it **playlist.txt** (see section 2.3).
6. If adding a scrolling message, create another text file and name it **message.txt** (see section 2.3).

## Real-time mode setup on CIMP1080AHD

1. Plug in the network cable to the side RJ45 port.
2. Go to server setup in the main menu and enter local server IP address.
3. Enter the server folder where the files reside and port number. In most cases, the port number will be 80.
4. Enter a login name and password used to login to the server. This should either be an administrator account or a user account with similar permissions.
5. Restart the CIMP1080AHD.
6. After rebooting, the CIMP1080AHD will allocate a network address from the local router and attempt to locate and login to the local server. If successful, the **playlist** will be accessed first, followed by the contents and playback of the media files in the order that they appear on the playlist. If certain files are scheduled, the CIMP1080AHD will skip over them until the correct time and date specified on the playlist. By default, the CIMP1080AHD will check for a new playlist update every 1 to 2 minutes and this option cannot be changed.

## 2.3 Playlist and Message Setup

The CIMP1080AHD can organize media contents by using a simple text based **playlist** file. Located in the same root directory as the media files, you can configure a playlist to schedule certain files to play at different times of the day or days of the week.

In addition, the CIMP1080AHD can scroll a message much like a ticker in a preset area of the screen. This is controlled through a **message** text file that will be called in the **playlist**.

The playlist is configured using week and time parameters. The week directives are <MON>, <TUE>, <WED>, <THU>, <FRI>, <SAT>, <SUN> and the time directives are assigned in 24 hour format and also enclosed in brackets. For example, to schedule a series of files to be played from 3pm to 4pm the time tag <15:00-16:00> would be added before the media files on the playlist. The playlist file must have at least one default play list, and if there is nothing to schedule, the user can implement a default playlist only.

- Default Playlist - A **default** playlist will not have any time or week directives. In the example below, the default playlist will be looped repeatedly until 5pm upon which the **scheduled** playlist will loop until 7pm. After this schedule block has been completed, the default playlist will resume until the next scheduled playlist on Saturday. Unless otherwise specified, the player will use "message.txt" as the default message playlist.
- Time Scheduled Playlist - **Time schedule** playlists download a file from a server when that file is scheduled to be played. Scheduled playback can be assigned by using a time directive and file list. The user can specify special message advertisements as well.

A text editor such as notepad may be used to create a playlist. In the following example, the “#” denotes a comment.



```
# denotes a comment

# Default Playlist
#####
# The default playlist will play when there is no WEEKDAY
# playlist. In this example, the below playlist will run
# on Mon, Tues, wed, Thu, Fri and Sun. On Sat,
# the <SAT><DEF> playlist will run instead.
<ANY>
<DEF>
001.jpg
002.jpg
012.wmv

# the following files will be played from 5pm to 7pm on
# Mon, Tue, wed, Thu, Fri, Sun
<17:00-19:00>
005.jpg
011.avi
message_1700.txt

# Default Saturday Playlist will only run on sat.
<SAT>
<DEF>
003.jpg
009.jpg
010.wmv
message_sat_default.txt

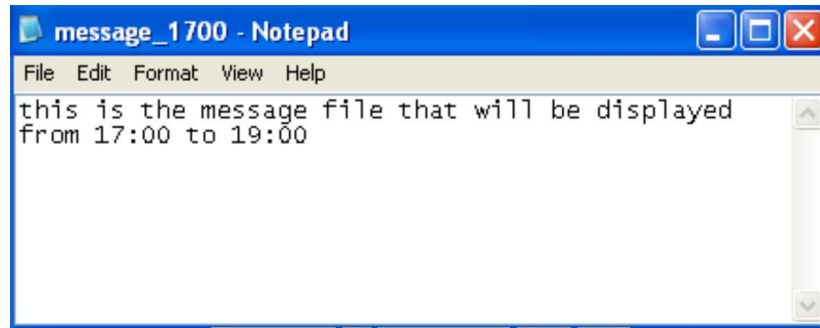
# the following files will be played from 8am to 9am on
# Saturday
<08:00-09:00>
002.jpg
003.jpg
message_sat_0800.txt

# the following files will be played from 2pm to 2:59pm on
# on Saturday
<14:00-14:59>
004.jpg
005.jpg
```

example of a playlist text file



to use message captioning, enable captions in the main menu



example of message text file.

# 3. Configuring the CIMP1080AHD

The CIMP1080AHD can be configured by pressing the **setup** button on the remote control.

## 3.1 Video / Audio



### 3.1.1 Video Configuration

The CIMP1080AHD has two primary output modes in VGA and DVI. Display resolutions for both modes are as follows:

- **VGA:** 640x480, 800x600, 1024x768, 1280x768, 1280x1024, 1366x768, 1440x900, 1920x1080
- **DVI:** 480p, 720p, 1080i, 1080p, 800x600, 1024x768, 1280x1024, 1366x768

The default setting is 1024x768 and the current display resolution is highlighted by red text that is next to the **Video Output** label.

### 3.1.2 Audio Configuration

The CIMP1080AHD only supports stereo output.

## 3.2 Server Setup

Please refer to **SECTION 2** above for instructions on how to setup the CIMP1080AHD for **Real-time** and **Internet** update mode.

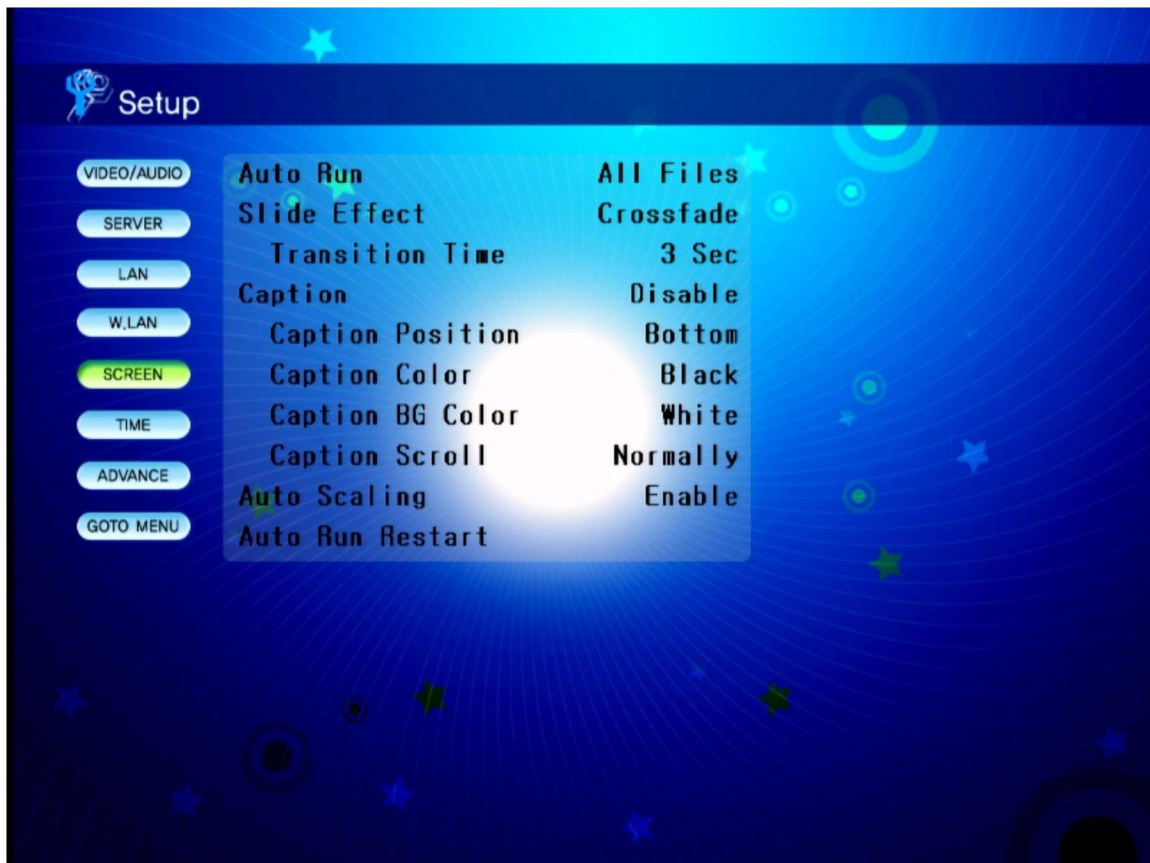
### 3.3 LAN Setup



IP address and DNS server address allocation is handled by the CIMP1080AHD automatically. To input an address manually, select the option **fixed**.

**3.4 WLAN Setup** Wireless LAN is not available with the current CIMP1080AHD version.

## 3.5 Screen



### 3.5.1 Auto Run Configuration

There are 6 methods of automated playback outlined below:

- Disable: auto play mode is disabled
- All files: plays all files, default setting
- Movie: plays movies only
- Music : plays music only
- Picture Slide : shows picture with configured slide effect
- Music Slide : plays pictures and movies with background music

### 3.5.2 Slide Effect

Select from a pool of picture transition effects like **Random**, **Cross fade**, **Rightward**, **Leftward**, **Upward**, **Increase** and **Decrease** way. In addition to these effects, **Transition Time** can also be changed here.

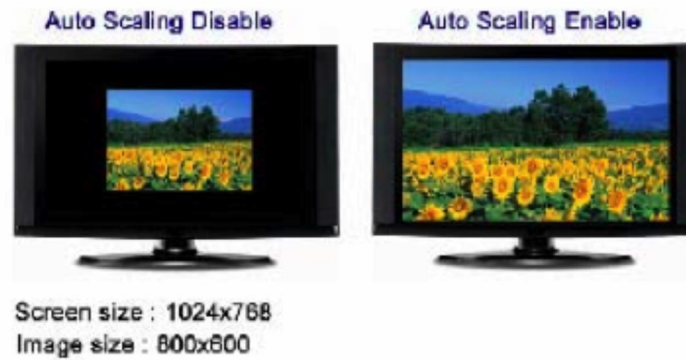
The default setting is **Cross fade**, **Transition time 3 seconds**.

### 3.5.3 Message Caption

Please refer to **SECTION 2** above for instructions on how to setup message captioning with your playlist.

### 3.5.4 Auto Scaling

The CIMP1080AHD video chipset can auto-scale a picture or video to the output display resolution. If auto-scaling is disabled, the actual resolution of the image or video will be displayed on the screen. Auto-scaling is enabled by default.



### 3.6 Time

The CIMP1080AHD has an internal clock that can be adjusted through the **Time** settings.



#### 3.6.1 Current Time Setting

User can configure current time manually or obtain from the NTP server.

#### 3.6.2 NTP Server

Select from 5 preset NTP servers.

#### 3.6.3 Time Zone

User can configure time zone here.

### 3.6.4 Time Display / Color / BG Color

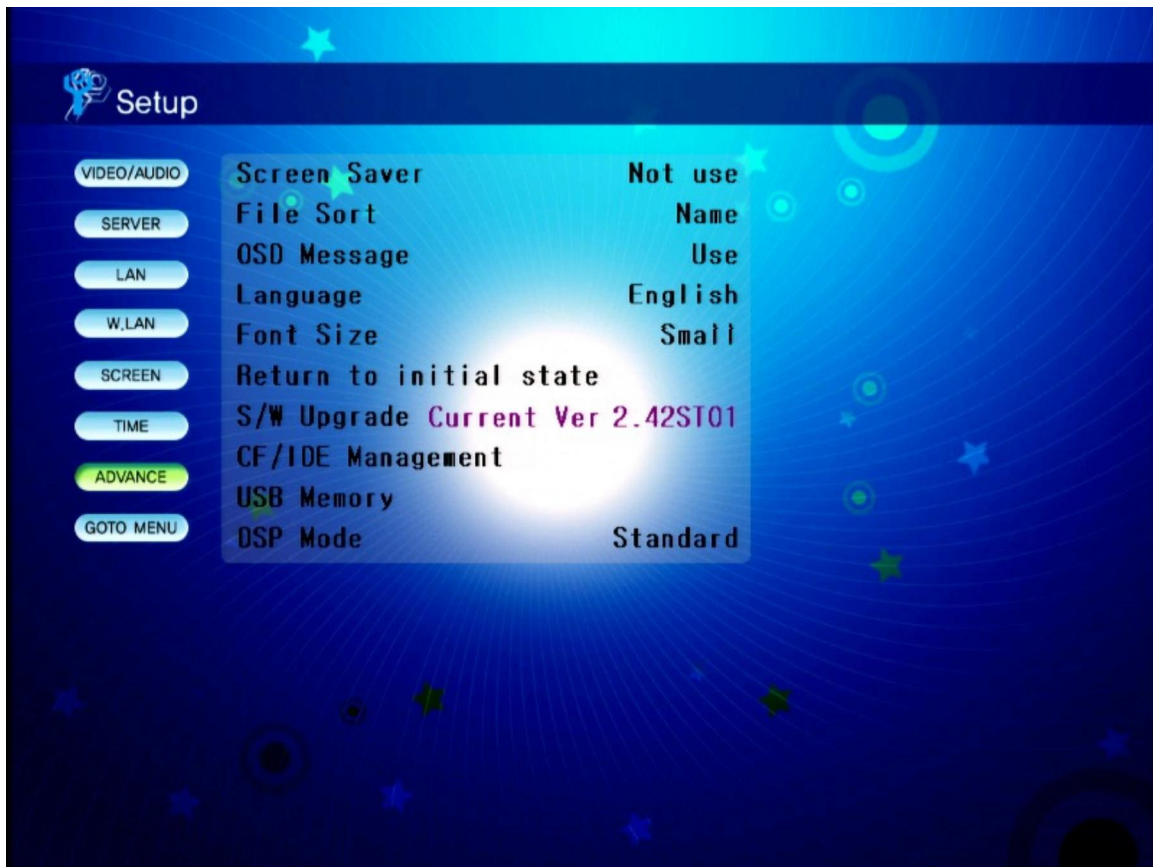
User can configure where to display the time stamp, or to disable. Time stamp font and background color is also configured here.

### 3.6.5 Auto On / Off

User can enable an auto on and off time.

## 3.7 Advanced Setup

The advanced setup menu contains options to upgrade firmware, select language type and disable/enable OSD messages among many. Please take note that DSP mode is set to **standard** on the CIMP1080AHD by default and the player may not operate correctly if this setting is changed.



### 3.7.1 Screen Saver

User can set screen saver time from 5 to 10 minutes. This setting is disabled by default.

### 3.7.2 File Sort

By default, the CIMP1080AHD sorts files alphabetically by name or user can set sort by size or date.

### **3.7.3 OSD Message On / Off**

User can set whether to turn on or off the On Screen Display status messages.

### **3.7.4 Language Support**

The CIMP1080AHD supports English (default) and Chinese.

### **3.7.5 Font Size**

User can set a larger font size. Default is on small font.

### **3.7.6 Return to Initial State**

Reset the CIMP1080AHD to default values.

### **3.7.7 Software Upgrade**

The CIMP1080AHD supports firmware upgrades. Please contact your Caltron sales rep for the latest firmware version.

1. Copy "DSSImage" file onto a USB flash drive or CF card.
2. Insert storage media into slot on the CIMP1080AHD and turn on the system.
3. Go to **Advance** menu option on the **Setup** page and select **S/W Upgrade**.
4. Check the \*.bin firmware file.
5. Select Ok (**Do not shut off the power during update process**).
6. The update process will usually take 10-15 minutes. Once finished, the CIMP1080AHD will automatically reboot.

# 4. File Support

<b>Video</b>			
Codec	Resolution	Feature	File Container
MPEG1	Support		DAT
MPEG2	1920x1080P or less	MPEG-2 SDTV (HDTV): 20 (25) Mbps max	MPG, TS
MPEG4, DIVX3/4/5, XVID	1280x720P or less	ASP Level 5 (w/o global motion) MPEG-4 SDTV (HDTV: 10 (tdb) Mbps max	AVI, DIVX
WM9	1280x720P or less	WMT v9 SDTV (HDTV): 10 (20) Mbps max	WMV
<b>Picture</b>			
JPEG format, 2048x2048 maximum resolution (does not support progressive encoder)			
<b>Audio</b>			
Dolby Digital 5.1 (Group A), MPEG 1 (Layers 1 and 2), MPEG 1 (MP3), MPEG 4 AAC (Low Complexity, 5.1), Windows Media Audio, 16 bit Linear PCM			