Foreword

Thanks for choosing Multi-media HD player. With this device, you will enter a new era of "disc-free, digital high-definition"! You will no longer stop in the electronic appliances stores and be sentimentally attached to its Hi-quality TV image as well as to queue in the cinema. This multi-functional player, not only has the full HD decoding playback, but also a high-definition digital set-top box with a full-featured hard disk recorder, friendly interface, simple setting up and easy to operate.

Unique features

Powerful functions
1. Powerful decoding function, which supports almost all popular audio and video formats.
2. Built-in Digital TV, which achieves wireless Hi-D digital TV viewing and recording more easily.
3. Support CVBS video input and recording function (for monitoring record)
4. Super-powerful network function, supporting NAS Server, Bit Torrent, Web Page Management as well as online playing capabilities.
5. Supporting USB DVD / mini blue-ray drive and the next-generation of audio "RAW" output.

Humanization design

Base on the principle of "User-friendly interface" and "Easy to operate".
1. The device first adopts the auto-flip structure for HDD installation, allowing convenient and rapid installing and removal of HDD (Patent No. ZL200920317487.0). (Installing and removing the hard drive are time consuming and hassle to complete in traditional media players, which leads to damage the devices easily.)
2. With multi-shortcut buttons such as DTV, Emission and video, this HDD operates more easily with timing record and power on/off function.

High Quality

"Build to be tough with high quality" is always our goal.
1. First passed the Europe "Energy Star" standard due to professional power management chip with standby power consumption less than 1W.
2. Unique noise reduction with no fan design.
   The combination of metal shell and alloy HDD supporting bracket greatly decreases the inner temperature.
   Both anti-static protection and super-strong anti-jam design extend the device life with stability.

Fashion design

1. Distinctive shape with elegance, dynamic and charming.
2. Never miss any game with variety of recording methods. Areal" worry free "HDD leads to experience the craziness without bothering others, even in the midnight with wireless headphone of scalable wireless audio transmitter technology.

Comprehensive interface

1. Combined with built-in 2.4G RF wireless audio expansion interface and BL-WER02 wireless headphones, no family member will be affected while watching TV broadcasting alive at night.
2. Built-in wired network interface (LAN 10/100M), supporting external Wireless 802.11b/g/n, supporting external Wireless USB adapter. (optional)
3. Dual high-speed USB2.0 HOST interfaces, one 3-IN-1 card reader, make connection more flexible and convenient.
4. One High-speed USB DRIVER interface turns the player into a mobile hard drive.
5. Various video interfaces, including HDMI1.3 output, CVBS output, YPbPr output and CVBS input.
6. The variety of video interfaces, including R/L- output, Coaxial output, Optical output. 2.4G RF output and R/L-input.
Contents

Chapter 1: The Section description
  1.1 Illustration of front view.......................... 04
  1.2 Illustration of back View.......................... 04
  1.3 Illustration of HDD installation.................... 04
  1.4 Illustration of remote controller.................... 04

Chapter 2: Hardware connection
  2.1 Sketch map for HDMI connection.................... 06
  2.2 Sketch map for YPbPr connection.................... 06
  2.3 Sketch map for AV input/output connection.......... 06
  2.4 Sketch map for connection with Optical/Coaxial digital audio output........ 07
  2.5 Sketch map for Internet connection................. 07
  2.6 Sketch map for connection with external DVD drive... 07
  2.7 Sketch map for connection with PC.................. 07
  2.8 Sketch map for connection with 2.4G RF............. 07

Chapter 3 Notices for use.............................. 08
  3.1 Frequent used keys................................ 08
  3.2 Power Starting Up Description........................... 08
  3.3 Notices for Power On/Off......................... 08
  3.4 Software Upgrade Instruction...................... 08

Chapter 4: System setup.................................. 09
  4.1 "Setup" menu introduce.................................. 09
  4.2 TV setup........................................... 09
  4.3 Change the Audio setup............................ 09
  4.4 Change video setup.................................. 10
  4.5 Change recording setup............................. 10
  4.6 Change the network setup........................... 10
  4.7 Change the system setup............................ 10
  4.8 MISC Settings..................................... 10

Chapter 5 Introduction of use functions.................. 15
  5.1 Digital TV menu..................................... 15
  5.1.1 TV time shift play.................................. 15
  5.2 Video Input menu.................................... 15
  5.3 File Copy Menu..................................... 15
  5.4 "Browser" View Menu................................ 16
  5.4.1 "Browser" View Menu introduction.................. 16
  5.4.2 Category Browse.................................. 16
  5.4.3 The detailed introduction for "network" and "playlist" are as followed.... 17
  5.4.4 File/folder Edit Menu introduction................. 17
  5.5 THERMREC menu..................................... 17
  5.5.1 Reservation recording setup.......................... 17
  5.5.2 Delete schedule.................................. 17
  5.5.3 View appoint video schedule....................... 17
  5.5.4 View the history record.......................... 17
  5.5.5 TV / VIDEO IN reservation recording.................. 17
  5.5.6 TV one-key recording................................ 17
  5.5.7 TV EPG reservation recording..................... 17
  5.5.8 Unattended recording TV........................... 17
  5.6 "IMS" Menu........................................ 17
  5.7 Connection to PC.................................... 17

Chapter 6 Simple malfunctions and solution............. 19
Chapter 7 Technical specifications......................... 20
Chapter 1: The section description

1. Illustration of front view (Figure 1)

1. Power Switch
2. Infrared receiving window
3. Video indicator light
4. HDD Read/Write indicator light
5. USB HOST Read/Write indicator light
6. SD/MMC/MS card Read/Write indicator light
7. SD/MMC/MS card interface
8. USB Device Connection Port to PC

1.4 Illustration of remote controller

1. MUTE: Mute Switch
Press to mute audio output, and press again to resume

2. SELECT: Select file or folder to copy.

3. CONFIRM: Add files to the play list file or confirm to deletion

4. EPG: Press to enter the Electronic Program Guide

5. TTX: Press to open text OSD

6. 0-9: Number/letter keyboard

7. BROWSE: Browse file path

8. RETURN: Return to the previous screen

9. Press the arrow keys to navigate the menus.

10. PLAY: Play the currently playing media files

11. FAVORITE: Shortcuts to the play list / FAVORITE TV programs list

12. DTV: Shortcut to TV mode

13. REC: Shortcut to record mode

14. INFO: Press to display information about the file currently playing

15. Play/Pause
Rewind/Fast Forward
Previous/Next Page

16. SLOW: SLOW-RELEASE key

17. Zoom In/Out: -2x/4x/8x/16x

18. OPTION: Set options for the current selection.

19. COPY: Shortcut to Copy Files.

20. SETUP: Open System Settings.

21. POWER: Power switch Press to display current status

22. 2.4G RF: Open/prohibit
When connected with the audio wireless transmitter

23. GOTO: In the video, press the key directly jump to scheduled time play.
In DTV mode, press this key will jump to watch the previous program

24. SUB: Press to activate available subtitles when playing the DIVX file.

25. GUIDE: Return to Main Menu

26. OK: Confirm Selection

27. Stop the currently playing media files

28. VOL +/-: Volume Control

29. REPEAT: Replay

30. A-B: Section Replay

31. TIME SHIFT: Move the button, time transfer control switch

32. TIMER: recording interface into the reservation

33. AUDIO: Toggle between left and right audio channels.

34. TV SYSTEM: Press to switch between NTSC Interlaced, NTSC Progressive.
Chapter 2: Hardware connection

For comprehensive audio and video interfaces, HDMI high-definition interfaces are recommended for use. When the player's video system is generally set to "HDMI automatically," video output interfaces, according to the resolution from high to low order, are HDMI, YPBPR, CVBS. Audio output interfaces, in accordance with sound quality from high to low order, are HDMI, Optical, Coaxial, R/L stereo. To get the audio and visual effects, interfaces are allocated according to maximum configuration TV and audio case refer to 4.3 and 4.4.

2.4 Sketch map for connection with Optical / Coaxial digital audio output

2.5 Sketch map for Internet connection

The device has built-in wired network connection, users need buy external USB adapter card for wireless network connection, which must be the type approved by the manufacturer, otherwise it cannot be used.

2.6 Sketch map for connection with external DVD drive

2.7 Sketch map for connection with PC

2.8 Sketch map for connection with 2.4G RF
Chapter 3: Notices for use

Frequent used keys
"Select", "Return" and "Enter" mentioned in the user's manual are executed by the "→", "↑", "↓", "←" key, "ki" key and "O" key on the control panel and remote control. The place where numerical inputs are
completes via the alphanumerical pad on the remote control.

Power Starting up Description
Ensure that the TV and speakers are connected as well as the setting up of hard drive. After plugged
the power, press the power button. The start page will show up. (As indicated in figure 14). As the
the first time, the system will bring up the hard drive formatting prompt window (As indicated in Figure 15). The hard drive must be formatted initially for the use of all functionality. Even if it
formatted with a PC computer, when "Cancel" was selected, the system will also be able to correctly
hard disk files, but records and some other network function will not be able to work, and each time
in the system is powered on, which will lead the hard drive formatting prompt window show up. As
of a specific operation, please refer to 4.7 chapters. When the format is completed, the
home page content automatically turns into the home page. The "O" on the remote control is the shortcut key
of the home page. (As indicated in figure 16)

Chapter 4: System setup

The player’s function has been simply introduced previously, but some functions can be effective with
necessary setup. For example, DTV, record, network functions, while also on the video and audio do
some setup, so make it match with the hardware connection in order to achieve best results.

4.1 "Setup" menu introduce
From the initial menu to access the setup menu, or press the remote control to "Set up" key directly into
the "Setup" set interface. This menu is available on TV, audio, video, record, network, system and MISC
settings modification.

4.2 TV setup
At the "TV region" to select the correct TV reception frequency, please note different areas covered by
the search frequency and bandwidth are not consistent (DTMB machine does not have this option).
Channel Scan: There are two options: "Automatic Scan" and "Manual Scan", however the "Manual
Scan" requires user to familiar with radio frequency, bandwidth and other parameters, which generally
not recommended to use.
Channel Settings: Search channels that have been saved to sort, modify and delete management.
Press "Cancel" option to exit. (As indicated in figure 18)

4.3 Change the Audio setup
Modify the setting of audio parameters by selecting the "Audio" tab. (As indicated in Figure 20)

Night mode: Turning on this feature will reduce the maximum dynamic range of the audio of device.
HDMI Output: There are three options of HDMI digital audio output: "RAW", "LPCM two-channel" and
"LPCM multi-track".
"RAW" Refers to the original bit stream of audio, which offers better audio output quality and is
applicable to surround sound system in home theater.
"LPCM" Refers to the default setting, to provide two-channel or multi-channel audio output.
Full High Definition Network Player

To the letters and numbers which you want to input, press the "OK" button on the remote control in role of some special keys: CAPS: case, <-. Clear, ->: blank shift: the file OK: finish.)

( View 30 )

( View 31 )

Peer to Peer (Ad Hoc): To connect the wireless client directly, and wireless router or access point are needed. (As indicated in Figure 32)

The player and the PC must use the Ad Hoc mode, in the same IP-network segment, sharing the same SSID.

The Hoc setup have "Wireless SSID", "Wireless security" and "Host IP", press "Enter" key to enter, press "cancel" key to return.

"Wireless SSID" Can be the system automatically generated SSID number, also it can name yourself.

open system*: Indicates connection without password

shared key [WEP]*: Indicates making other devices connect the access password of this device.

host IP*: Set the Host IP.

( View 32 )

( View 33 )

* O * key (As indicated in Figure 34), if the test passed, the network information will be displayed automatically (As indicated in Figure 35)

WPS (AP): This item will be subjects to whether the connected network access point and connected wireless card support this function. Both are indispensable. If the access point has the function of WPS, please confirm the connection of WPS in the PBS directly connection or PIN code identification connection. For the first connecting, press the WPS button for the wireless access point. Then to select the appropriate connect ways, the player will search for the matches until the connection finished, and display the configuration information automatically. Release the wireless network access points WPS key. When the connection process is completed, it will save automatically, in order to connect automatically when the wireless adapter inserted next time.

PPPoe Setup* : Before using the PPPoe function- Please ensure that the player is connected to the dialer provided by the ISP and the dialer is properly connected to the ISP server. Please make sure the user has the username and password provided by the ISP for internet connection. (As indicated in Figure 36)

4.7 Change the system setup

Select the menu "System" tab, modify system-related parameters. (As indicated in Figure 37)

Menu Language | Modify system language
Text Encoding | Select the text encoding language for movies caption, MP3 TAG information of data conversion.
Login control | Select open or off, control login password of BT/SAMBA (initial user name: admin, password: 123)
BT and SAMBA | Connect player and running the BT download function by LAN, or to open the master power of FTP server, make sure the player in the same network segment. Check the player's IP address in the network setting, (such as 192.168.1.204), this IP segment can be the IE browser opened by any computer, input "HTTP: / / 192.168.1.204" and press enter in the address bar, you can enter the player's control platform for BT and SAMBA. (As indicated in Figure 38)
System Information | Refer to device's serial number, software version, release date, LOADER, etc.
System upgrade | Upgrade software by finding the upgrade procedure in the move device or in the network.
Time | Set the system time manually, also it can be set up according to the digital TV system time connected.
Parental control | Input the initial password "0000" and enter Parental control the level of movies, TV set.
Note: The password option can be changed under the parental control.

( View 38 )

( View 39 )

R / RW Auto Play | Turned on, the USB DVD drive will automatically play with the disk loaded.

View Tags | Select the commander of "HDD format", a format the HDD According to the instructions (As indicated in Figure 39) (The system will cancel all the files in HDD once HDD is formatted, so all important files should be stored secured, and backed up before execution.) In the process of formatting, the adjustment of time shift buffer disc capacity is required, we recommend that you select a maximum of 4 hours, select "next" (As indicated in Figure 40), proceed to the last step format (As indicated in Figure 41), when you see congratulations information pops up then indicates action is completed. (As indicated in Figure 42)

Restore Default | Restore the factory default set up.
Chapter 5 : Introduction of use functions

5.1 Digital TV menu
Select and enter "DTV menu" in the front page, you can view the TV programs that can be searched. (As indicated in Figure 44), also you can view directly by pressing the "DTV" key on the remote control.

1) When watching TV, convert the channel by the " ▲ ▼ " key on remote control.
2) When watching TV, check the channel list by the " ◄ ► " key on the remote control.
3) When watching TV, convert the multi-channel by "AUDIO" key on the remote control (If the program source have multi-channel),
4) When watching TV, convert the subtitle by "SUB" key.
5) When watching TV, check the programs information and the recording states by "INFO" key.
6) When watching TV, check the TV submenu by "EPG" key, common there will be a week of information;
7) When watching TV, start the recording function by "REC" key.
8) When watching TV, enter the TV Shift state by "TIMESHIFT" key. (The need for built-in HDD).
Note: The Player with Dual-TUNER has the function that watching one channel while another channel is recorded.

5.1.1 TV time shift play
TV time shift play: This function can be adopted for the model of DTV and VIDEO-IN, the shortcut key here is the "Time shift" on the remote control. (As indicated in Figure 45).
Generally, when we watch the TV programs, we can only watch all the programs passively, once the wonderful program missed, we can't view it any more, and also We must be forced to watch those advertising programs that we don't want to watch.
After used this function, we can pause, fast forward, rewind control all the TV programs just like to watch movie! We can go back repeatedly to watch the exciting programs, we can skip through the fast-forward when there are long-playing advertising, so this is a useful function.
In the Time shift state, press the INFO key to view the current TV time shifted information
In the Time shift state, press the ◄ ► key to pause or Single frame the current programs.
In the Time shift state, press the ◄ ► or "time shift" key to return to the live TV. (The time shift open automatically must be in "off state")
Note: The time shift function is a way to achieve real-time video, so there will be a internal hard drive in the player, and once out of DTV mode, the time-shifted programs will be deleted automatically.

5.2 Video Input menu
This function supports the standard CVBS composite video input, mainly used to view, record the surveillance cameras information, of course, can also be used to connect other output device that have CVBS video, as long as the signal connected the CVBS-IN interface effectively, you can see the current video information by selecting the "video in" in the front page. By press the ◄ ► key to exit.

5.3 File Copy Menu
The "File Copy" from the front page, or press "copy" on the remote control, in this menu, you can copy the files between USB, hard drive, CD-ROM and networks. (As indicated in Figure 46)
Method as following:
1) "Source" is File location, "Destination" is the purpose of copying location.
2) At "Source" area, select the required store device and press "SELECT" key to confirm the required copy files. Then press the right button to enter the "Destination" area, select the file storage path, then press the direction key of right button, then the copy dialog box will be pop-up, selecting the "copy" in the dialog box will copy the selected files. Selecting the "move" will move the selected files,
5.4.3 The detailed introduction for “network” and “playlist” are as followed

Browsing network
The following settings needed to be done first before using this function.
- a. The device has connected to an effective network.
- b. A properly configured network protocol.
- c. The visited computer has shut down the firewall.
- d. The visited computer has shared files.

The network browsing is the same to the network visit of the PC computer, there will not any described in detail. (As indicated in Figure 51)

My Shortcuts is the Network Neighborhood Settings: enter “My Shortcuts” menu, press the “OPTION” key (As indicated in View 52), there will pop up a dialog box, select the “join”, create a shortcut visit mode. Input the user name and the network IP address, Save the setting, then a shortcut of “Network Neighborhood” has been established.

Browse the “play list”
This is a personalized design, you can add your favorite program into this menu, faster and more convenient when playing every time. But this is only effect to the files inside hard drive.
Operation: 1) Find the file in the hard drive you would like to add to the playlist.
2) Press “select” on the remote to select
3) Press “confirm” to finish.

5.4.4 File/folder Edit Menu introduction
If you want to edit or delete files/folders, you need to bring up the edit menu by pressing the “OPTION” key (As indicated in Figure 53)
- “Return”: Return to the previous one
- “Rename”: Rename the file or folder
- “Delete”: Delete the file or folder

Tip: When renaming files/folders, press the “CAPS” key to operation of ‘Uppercase/lowercase’. Switch between letters: Press “*” can be inserted into the space. As indicated in figure. When input the new name, select “OK” to save your change. If you want to give up rename, press “return” key. (As indicated in Figure 54)

5.5 TIMERREC menu
Enter the “TIMERREC” interface, (As indicated in Figure 55), there are “Edit”, “Delete”, “Status”, “History” several options.

5.5.1 Reservation recording setup
Enter the menu bar select “Edit” tab, you can add or modify an existing reservation recording schedule (As indicated in Figure 56), the New Add method is as follows, select “Add a new schedule” option, press “*” key, the reservation time setting interface will appears. Press the
Remote control arrow keys to set the reservation recording time schedule.

Source: Select on video source or record TV channels.

Start time: Input appoint date and time of recording. (The recording time may be 3 minutes later than current time)

Length: Input time length of video file.

Repeat: Choose frequency of recording reservation, you can select one time, Monday to Friday, Monday to Saturday or one day in a week.

Device: Select Storage Device.

Quality: Select video quality, according to the disk spare space in the left of the interface; you can know the length of recording in each quality model.

NICAM: Select open or close the NICAM technology.

Note: Analog recording quality and NICAM options are not valid to digital TV recording.

5.5.6 TV one-key recording
Make sure the VIDEO IN function is OK or in the broadcast alive mode, you can start one key recording by pressing the REC (key) on the remote control. The first use of video function, The system will automatically create a "RECORD" folder at the first time. And all recorded movie file will be saved in this folder. The file name will be Rename for the system time.

1) When in the one key recording, you can set the finish time by pressing the REC icon again. (There are 3 mins, 60 mins, 30 mins, 120 mins, 180 mins, 360 mins, OTR off).

2) When in the one key recording, pause or continue recording by pressing the "OE" key, allowing you to skip the advertisement spots on TV shows.

5.5.7 TV EPG reservation recording
When in the state of TV broadcast alive mode, enter the electronic program menu by "EPG" icon. (As indicated in Figure 61)

In the electronic program menu (EPG), press the "A" or "V" key to select the required TV program, press the "TIMER" key to add the new recording task to the task list. If you need to cancel the recording task, select the program and then press the "TIMER" key again.

If add successfully, there will be a red recording marker on the back of the corresponding record. (As indicated in Figure 62)

5.5.8 Unattended recording
When TV recording and TV EPG reservation booking record set up complete, if only the machine is in standby mode (red lights), that it will also be recorded before the arrival of task automatically start recording tasks accordingly, automatic shutdown after recording return to standby.

What is standby?
When the player is turned on as the light is red, the host system doesn't have power, control circuit in standby only by one power, and the player is at lower power state.

5.6 "IMS" menu
Enter the "IMS" from Home page, make sure that the player has the proper access to the World Wide Web, users can use this feature to browse the World Wide Web, online video, online radio, online music, and more exciting contents. (As indicated in Figure 63)

5.7 Connection to PC
This player can be used as a USB 2.0 external Hard Drive.

1) Make sure HD is installed in the player.
2) Connect the PC with USB cable to the front panel of player, turn on the power, PC will display a sign which represents the successful connection. At this time, you can conduct various operations on it.

3) When we need to withdraw the mobile HDD from the PC, please exit PC (As you would with any USB storage device) and then disconnect USB cable in accordance with USB hot-swap principle.

Note: When the player is used as USB driver, only HDD in the player can be recognized, external devices such as USB HOST and CARD READER are not recognized.
### Chapter 6: Simple malfunctions and solution

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power indicator does not light up</td>
<td>Check power connections.</td>
</tr>
<tr>
<td>No video or unstable video after turning on the media player.</td>
<td>The settings on the media player do not support the TV. Press the &quot;TV System&quot; button on the remote until a clear image appears. Then adjust system settings for maximum TV support.</td>
</tr>
<tr>
<td>Hard drive not found</td>
<td>1. Check the condition of hard drive. 2. The hard drive needs to be formatted after first start up. 3. Hard drive may have virus. Format after backing up data.</td>
</tr>
<tr>
<td>Unable to Record</td>
<td>1. Check video input connections; check whether the option &quot;Video In&quot; is working. 2. Check if there is enough hard drive space. Note: Only the FAT32 format supports recording. 3. If the recording is scheduled, double check the schedule’s settings and the time.</td>
</tr>
<tr>
<td>LAN movie play is not smooth</td>
<td>In some cases, network devices with a network connection is required to support a maximum data transfer rate of data, if you use the player connected to network, there are other connections (for example, a shared printer on the Internet), which might lead to lower data stream rate affecting the effect of the movie playback, such as, DVD, HD movies, if this problem is detected in the player, please reduce the network need to transfer data for the number of users.</td>
</tr>
<tr>
<td>The remote control does not respond</td>
<td>There may be several causes, please check the following items: a) Aim remote control of emission head to the product and make sure the path is not blocked by any object; b) Checked the remote control battery, if necessary, use the new battery.</td>
</tr>
<tr>
<td>Can not find external HDD</td>
<td>1. May be the player USB external hard drive support is insufficient, please add a mobile hard drive plug in another power supply. 2. Make sure the external hard disk partition format is FAT32, or NTFS, or player does not support hard disk to GPT partition format. When using Windows Vista operating system to partition and format your hard disk, select FAT32, or NTFS format, do not select the GPT partition format.</td>
</tr>
<tr>
<td>External USB disk upgrade file can be not found.</td>
<td>1. Make sure that the player properly identify USB drive whether to display the file or not, and then perform the upgrade software. 2. Make sure that the upgrade file has been placed on the USB disk for the first partition, if USB disk has multiple partitions, default to automatically search the first partition of the stalls. 3. The upgrade files need to be placed in the root directory. 4. The USB disk for first partition can only have one upgrade, if there are multiple upgrade files, the player only displays the first upgrade files, other upgrade stalls removed, leaving only the upgrade required.</td>
</tr>
<tr>
<td>Connected to the internet, but cannot download and browse video</td>
<td>1. Some network features cannot be reached domestically (such as: YouTube video, CNN news, BBC news, etc.), please consult your local network provider. 2. When in process of document downloading, please do not make other operation on the same device. 3. If the device could not access to the wireless IP, then reboot the device.</td>
</tr>
</tbody>
</table>

### Chapter 7: Technical Specifications

<table>
<thead>
<tr>
<th>SUPPORTE DOS</th>
<th>Windows 98SE/2000/XP/Vista,Mac OS9.0 higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDD Type</td>
<td>3.5 SATA HDD up to 2TB</td>
</tr>
<tr>
<td>HDD File System</td>
<td>SUPPORT: FAT16/ FAT32/ NTFS/ EXT3</td>
</tr>
<tr>
<td>TV Type</td>
<td>NTSC/PAL/480P/576P/720P 50HZ/720P 60HZ/1080I 50HZ/1080P 60HZ</td>
</tr>
<tr>
<td>Video Format</td>
<td>File Format: .avi / .vob / .dat / .iso / .mkv / .mov / .mp4 / .mpg / .mpeg / .ts / .m2ts / .m2t / .matroska / .rmvb / .flv / ...</td>
</tr>
<tr>
<td>Audio Format</td>
<td>Codec: MPEG1 / MPEG2 / MPEG4 / XviD / DivX / H.264 / WMV9 / VC-1 up to 1080p; RealVideo 8.9, 10 up to 720p</td>
</tr>
<tr>
<td>Photo Format</td>
<td>Full Menu DVD Navigation / Playback, BD Lite Navigation / Playback</td>
</tr>
<tr>
<td>Subtitle Format</td>
<td>Video Upscaling from SD to HD</td>
</tr>
<tr>
<td>Subtitle</td>
<td>Full Subtitle Support: SRT, SSA, SMIL, IDX-SUB, TXT (External), TS, MKV (Internal)</td>
</tr>
<tr>
<td>OSD Language</td>
<td>Chinese, English, Japanese, Spanish, French, Germany, Italian, Dutch, Korean, Russian (others can be translated)</td>
</tr>
<tr>
<td>Video Output</td>
<td>Support HDMI/V1.3 up to 1080P, output @60HZ YPbPr CYBS(W) NTSC/PAL</td>
</tr>
<tr>
<td>Audio Output</td>
<td>Stereo L/R; SPDIF Optical, Coaxial, HDMI RAW/PCM, 7.1 down-mix</td>
</tr>
<tr>
<td>Connects</td>
<td>USB HOST USB 2.0, LAN 10/100Mbs 3-IN-1 Card reader/MMC V1.02/SD V2.0/MMC V4.2 AND SD ON</td>
</tr>
<tr>
<td>PC Interface</td>
<td>USB2.0</td>
</tr>
<tr>
<td>Video Recording Format</td>
<td>MPEG2: DVD+VR (HQ/SP/LP/EP/SLP mode) TS Recording (original stream)</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-5 to 45°C</td>
</tr>
<tr>
<td>Power</td>
<td>Input: AC 100-240V; Output: DC 12V/3A</td>
</tr>
</tbody>
</table>

**Video time reference list**

<table>
<thead>
<tr>
<th>Mode</th>
<th>DVD</th>
<th>90GBHDD</th>
<th>120GBHDD</th>
<th>160GBHDD</th>
</tr>
</thead>
<tbody>
<tr>
<td>HQ</td>
<td>1hr</td>
<td>16hrs</td>
<td>24hrs</td>
<td>33hrs</td>
</tr>
<tr>
<td>SP</td>
<td>2hrs</td>
<td>32hrs</td>
<td>48hrs</td>
<td>66hrs</td>
</tr>
<tr>
<td>LP</td>
<td>3hrs</td>
<td>48hrs</td>
<td>72hrs</td>
<td>99hrs</td>
</tr>
<tr>
<td>EP</td>
<td>4hrs</td>
<td>64hrs</td>
<td>96hrs</td>
<td>132hrs</td>
</tr>
<tr>
<td>SLP</td>
<td>6hrs</td>
<td>96hrs</td>
<td>144hrs</td>
<td>188hrs</td>
</tr>
</tbody>
</table>

This manual is for reference only, if changed without notice.