innuon Multi-language Subtitle

Portable Multimedia Player
AH120A

Manual

BitWire Corp.

Windows xp   Mac OS   LINUX   CE   FC

TABLE of Contents

1. Product Guide

iMuon AH120A is a compact and stylish, portable multi media player and handheld hard disk. Your iMuon has been designed to perform a number of functions ranging from displaying DVD quality video or text files through the built-in QVGA TFT-LCD, playing MP3/WMA music files or allowing you to enjoy these features on your TV via AV cable or IR remote control.

iMuon is handy for anyone on the go. While traveling, you can view movies and video lectures. You can store and view photo albums and listen to MP3/WMA files. You can also read text files like electronic novels, essays or other text files. iMuon is compatible with MP3, WMA, AVI, DivX, XViD, VOB, DAT, MPEG and JPEG multi media file formats.

Dvix files with subtitles, such as SMI, are supported. Subtitle languages currently supported are Korean, English, Japanese and Chinese. Additional languages are also supported through firmware upgrades available on our web site at www.imuon.com. The player supports data transfer speeds of 480mbps through a USB 2.0 connection. iMuon can also be used as a 20GB removable hard disk.

You can connect iMuon to a TV with an AV cable, using the player like a VTR or you can connect via iMuon's IR functionality. Through the TV, you can play all your favorite media files - from Dvix to MP3s!

2. Product Features

Quality Design   UV coated body and ultra miniature size with a super high quality, detailed, QVGA quality, color LCD screen with backlight.

20GB HDD   Room enough to store up to 30 of your favorite movies or 4,500 MP3 songs or 40,000 digital photos. The iMuon combines a modular MPEG-4 video player, MP3 music player, digital photo album, and data storage into a compact device that fits in the palm of your hand.

QVGA Display   Built-in, QVGA quality, 2.2¡ TFT LCD supporting 260,000 colors.

HQ Video   Video functions support resolution up to a maximum 1920 x 1080 or 30 frames per second (normal video speed).

TV Out   High quality video and audio play functionality through Composite out and AV Stereo audio out.

NTSC/PAL   TV out function switch able to NTSC / PAL

5 Equalizer   Wide bit rate range from 30 ~ 320 kb/s and 5 Equalizers that change according to desired music genre.

MP3 Audio   Stores up to 4,500 audio files for your listening pleasure.

Optical Output   S/PDIF output supported to produce 5.1 channel stereo sound through Coaxial or Optical output (Cable optional).

DivX Video   Plays DivX 3.x, 4.x, 5.x and Xvid video files.

JPG Photo   Stores and provides viewing capability for up to 40,000 .jpg file photos.

2. Product Features

e-Book Text   Stores and provides viewing capability for text files that can be read on the go.

3 Way Control   Allows the player to be operated by the buttons on the device, wired Remote Control or by wireless Remote Control.

Back Light   Backlight function allows the backlight on/off time to be adjusted.

USB 2.0   High speed data transfer at a maximum 480Mbps. Firmware easily upgradeable through the USB port.

Multi Language Subtitles   Currently supports subtitles in Korean, Japanese, Chinese and English.

Stereo Speaker   Built-in speakers provide high quality stereo sound without earphones.

Li-Polymer Battery   Built-in Li-Polymer battery allows a maximum play time of 10 hours for MP3 audio files or 5 hours for video files.

Rechargeable   Battery is rechargeable through an AC adapter, 24 pin rechargeable cable in the mobile travel kit or by USB cable.

Firmware Upgradeable   Firmware upgrades and User support available at www.imuon.com.

3. Precautions
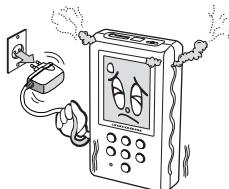
If the AC adapter is plugged in and begins to smoke, produces a burning smell or becomes excessively noisy, unplug immediately. Failure to do so may result in fire or electrical shock.
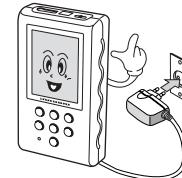
When plugging the AC Adapter into the power outlet, make sure it is properly plugged into the socket. Failure to do so may result in fire or electrical shock.

NO!

Do not plug in the AC Power Adapter with wet hands.
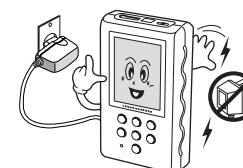
Use Only the AC Power Adapter supplied with the player. Other adapters may result in fire or electrical shock.

In stormy weather, unplug the AC adaptor from the wall outlet. Failure to do so may result from power surges.

Do not dissemble, repair or alter the player.

3. Precautions

Keep the player away from any strong magnetic force. This can cause malfunctions in the Hard Drive.
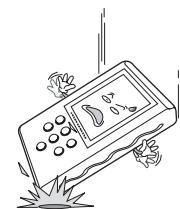
Avoid dropping or physically impacting the player. Dropping or physically impacting the player may cause damage.
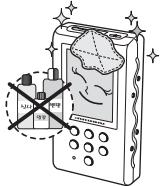
Clean the player with a soft cloth or towel. Never clean the player with a chemical solution like Benzene, Acetone, paint thinner or solvent. These chemicals can cause the player to change color or loose its paint.
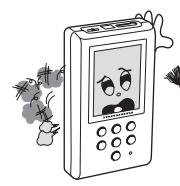
Do not leave the player exposed to excessive dust or sand, moisture, physical shock or rough surfaces.
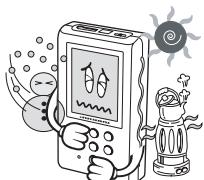
Do not leave the player near heat sources, direct sunlight, or in a car with closed windows.

Do not dissemble, repair or alter the player.

4. Components

■ Main body
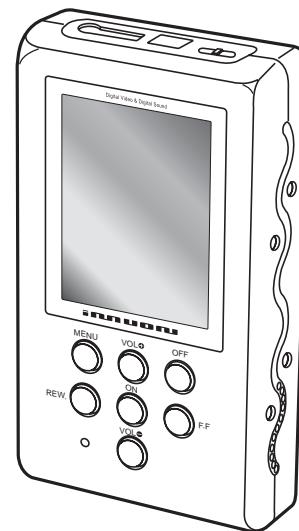
■ Wired Remote Control
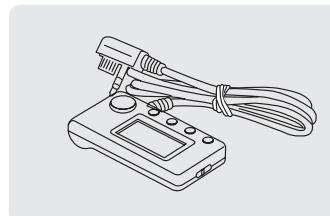
■ Wireless IR Remote Control
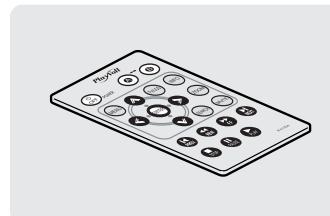
4. Components

■ Earphones

■ USB Cable

■ AC Adapter (DC 5V 2A)

■ A/V Cable

■ Carrying Case
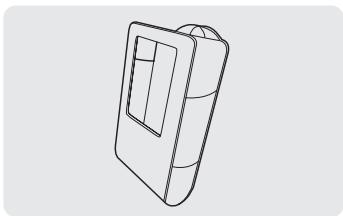
■ Install CD
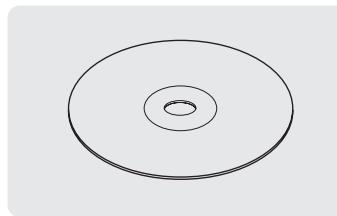
■ User Manual/Warranty card

Manual
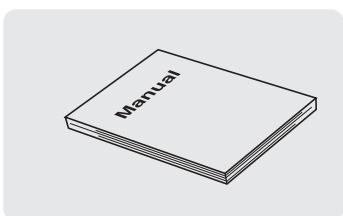
* Accessories are subject to change without notice and may vary from images shown.

5. Locating the Controls

Main Body

Remote Control /Earphone Jack

Hold

IR Receiver

LCD/ TV Converter

LCD Window

Main Menu/Sub Menu

Volume/Menu/Folder Up

Rewind/Previous

Stop/Power Off

Fast Forward/Next

Power On/Play/Paus

Volume/Menu/ Folder Down

Operating Indicator/ Charging Indicator LED

Built-In Speaker

24 Pin Expandable Connection Port

Reset

USB Connection Port

DC IN 5.0V

USB2.0   Ext. I/O   RESET   DC5V
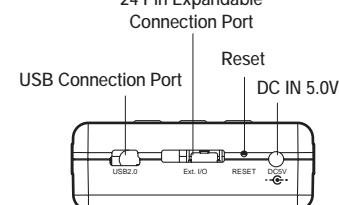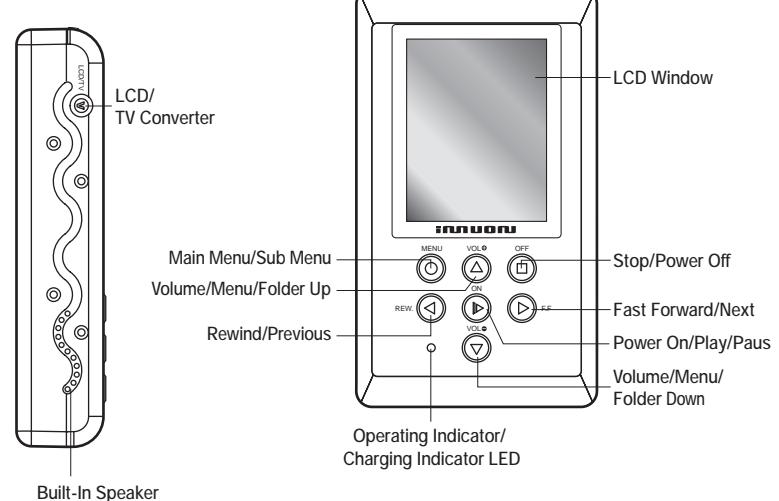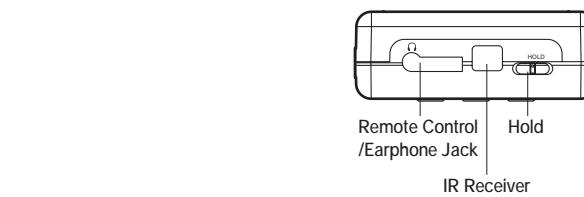
5. Locating the Controls

Wired Remote Control

LCD Window

Hold

Joy Stick for Multi Function Control/ Play/Power On

Main Menu/Sub Menu

End point of the section repeat/ Stop the section repeat

Stop/Power Off

Start point of the section repeat

Wireless IR Remote Control

Start point of section repeat

End point of section repeat/ stop the section repeat

Power Off

TV/LCD Converter

Main Menu/Sub Menu

File Information

Zoom In/Out

Execution/Play/Save

Mute

Time Search

Previous

Next

Rewind

Fast Forward

Stop

Pause

Play

6. Connection

Remote Control

Earphone

Main Body

Main Body

TV

Adapter

USB1.1/2.0

Video Cable(Yellow)
Audio Cable(White, Red)

PC

(Video Input - Yellow, Audio Input - White, Red)

1. Connecting to a USB cable

2. Connecting iMuon to a 24 pin connection cable

3. Connecting iMuon to the AC Power Adapter
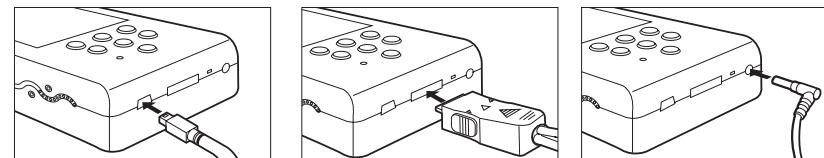
NOTE: You must turn the power on after connecting the USB Cable or the AV Cable or the Wired Remote Control to avoid loss of data or freezing the computer and/or the device.

7. Driver Installation and Folder Generation

Windows 2000/XP

Windows 2000 and Windows XP are programmed to automatically support USB2.0 storage devices. iMuon can be used without any program installation.

Windows 98/ME

Although Windows 2000 and Windows XP automatically support USB 2.0, Windows 98/ME does not. To use iMuon on a Windows 98/ME computer, you must first install the storage device driver. To install, insert the installation CD into the CD Rom and follow the prompts. If the installation CD is not available, you can download the driver at www.iMuon.com.

1. Windows 98/ME has recognized a new piece of hardware and starts its wizard. Click on Next.

2. Click on the button search for the best driver Now click on Next.

3. Uncheck all of the checked boxes, and then check the box specify the drive to. Click on Next and Windows will then load the correct drivers.

7. Driver Installation and Folder Generation

4. Windows is now ready to install the driver into its operating system. Click on Next to tell Windows to install the driver.

5. Windows will indicate when it has finished copying the drivers. Click on Finish. Do not unplug the device from the computer yet.

6. Once finished, you should restart your computer. Upon restart, it will automatically recognize the connected device. It will be seen as another hard disk in Windows Explorer.

7. Driver Installation and Folder Generation
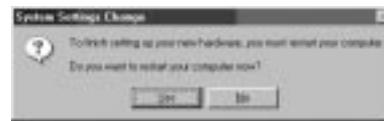
NOTE: You must properly remove your device from the computer before disconnecting the USB cable to avoid loss of data or freezing the computer and/or the device.

Windows

To safely disconnect the device, click on the system tray remove icon (green arrow) and follow the instructions. Wait until you get a message saying that you can safely unplug the device before disconnecting the USB cable.

Attention: The operating system will not allow you to safely disconnect the device if you have an open file from it in a running application. You will have to close all open the device files in any running application. Sometimes even when files are closed in an application, you will have to shut down the application. Using the green disconnect arrow in the system tray will then allow you to safely disconnect the device.

To generate folders

The player has the following, basic folders that are listed below. Folder names may be changed or new folders may be added as desired by the user.

Audio: Folder to store MP3 and WMA Audio files.

E-BOOK: Folder to store
        *.txt electronic books and other files.

Photo: Folder to store
        *.jpg photos.

Video: Folder to store
        *.avi, DivX 3.x, 4.x, 5.x, Xvid and mpg video files.

To turn on the player
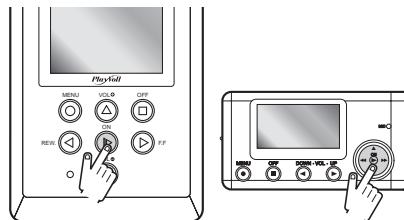
To turn on the player, push and hold the ON ▶ button of the device or the ON ▶ button of the joy stick on the wired remote control. Once the player is on, the LCD will display the main menu.

NOTE: The player can't be turned on via the wireless remote control.

To turn off the player
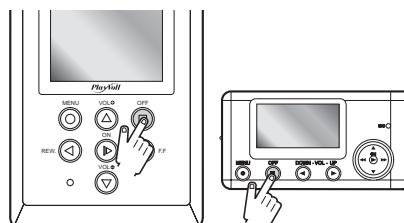
To turn the player off, push and hold the OFF button on the player or the wired remote control. You may also press and hold the Power button on the wireless remote control.

NOTE: When "Hold" is ON, the buttons on the player will not function.

If the player has been stopped or is idle for 30 minutes, it will automatically turn off per the STOP POWER OFF default setting.

To change the display from LCD to TV
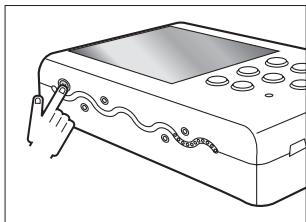
iMuon can display images on either the LCD or a TV. To change the display, push Remote control. This will switch the display from LCD on the device to the TV or from the TV to the LCD on the device.

To use Wireless Remote Control

Please note that the Wireless Remote Control is operational immediately after the player is turned on. The wireless function will work properly as long as the transmitter of the wireless remote control is directed towards the player's receiver.
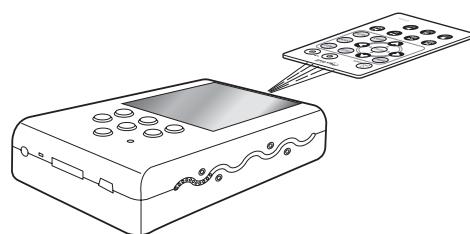
To display the MENU

To display the Menu, push the Menu button on the player, wired remote control or the wireless remote control while the player is in Stop status. The Menu below will be displayed. From the menu, you can choose the function you desire.

MENU Options are: AUDIO, VIDEO, PHOTO, E-BOOK, and SETUP.

To play AUDIO files

1. Push ON ▶ after selecting AUDIO.

2. From the media folder, you can select the Audio folder where you have stored your audio files. Select the desired file and press ON ▶ to begin play.

Audio Operation

▲▼	Increase/decrease volume
❘ ▶	Pause/play
◀▶	Play previous track/next track
■	Stop/Go to the upper directory in stop status
¢¢,¢¢"	Fast reverse 10 seconds/fast forward 10 seconds in the current file
A-B	Push the A button to select the start point of a section to repeat. An A icon is displayed in the screen and push B button to end the section repeat. The selected section is played repeatedly.(Wired Remote Control/Wireless Remote Control)
	Note:You can't set section repeat function by the device buttons.
Mute	Stop sound but continue play (Wireless Remote Control)
Search	Browse through audio files while music is playing (Sub Menu/Wireless Remote Control)
Menu	Go to Sub Menu.

Enter Sub MENU

Press the Menu button on the player, wired Remote Control or the wireless Remote Control while playing.

Sub MENU

Info	Display information on the current file
Mode	Select playback mode

1	Play one track in the folder and stop
∞1	Play one track in the folder repeatedly
D	Play all tracks in the folder and stop
∞D	Play all tracks in the folder repeatedly
DS	Play all tracks and folders in the folder repeatedly

Display	Show on or off the Menu bar on the bottom of screen
File Search	Find and select the file you want while playing
Time Search	Select the time within the audio file that you wish to begin play
	The Metro Key for this function is in wireless Remote Control.
EQ	Change the EQ to match your music style. -None/Dance/Jazz/Classic/Pop/Rock
SAVE	Bookmark the current page you're listening. After choosing SAVE in Sub Menu, push	▶. Please note that only the player will only save (bookmark) information on the last song stored.
LOAD	Call the last song you saved. After choosing LOAD in Sub Menu, Push	▶.
MENU	Stop file search while playing.

To play VIDEO

1. Push ON ¢" after selecting VIDEO.

2. From the media folder, you can select the Video folder where you have stored your video files. Select the desired file and press ON ¢" to begin play.

Vidio Operation

▲▼	Increase/decrease volume
| ▶	Pause/play
◀▶	Play previous video/next video
■	Stop/Go to the upper directory in stop status
♯ ♯	Fast reverse/fast forward (a three-speed control) To change speeds, push the ¢¢,¢¢" button to go from one fast forward/reverse speed to the next higher speed. Pressing twice will result in the fastest speed.
Zoom	Zoom in or out. (Metro key is in the wireless remote control)
Mute	Stop sound but continue play (Wireless Remote Control)
Search	Browse through video files while video is playing (Sub Menu/Wireless Remote Control)
Menu	Go to Sub Menu.

To Enter Sub MENU

Press the Menu button on the player, wired Remote Control or the wireless Remote Control while playing.

Sub MENU

Info   Display the information on the file the player is currently playing

Mode   Select playback mode

1	Play one track in the folder and stop
∞1	Play one track in the folder repeatedly
D	Play all tracks in the folder and stop
∞D	Play all tracks in the folder repeatedly
DS	Play all tracks and folders in the folder repeatedly

Display   Show on or off the Menu bar on the bottom of screen.

Position   Change the subtitle position to high/low.

Time Search Select the time within the video file that you wish to begin play.
Metro Key for this function is in wireless Remote Control.

EQ   Change the EQ to match your music style.
-None/Dance/Jazz/Classic/Pop/Rock

Zoom/Move Enlarge/reduce the display or move to the left/right to achieve your desired view.
Push ON ▶ after selecting Zoom mode in Sub Menu and you can make the player zoom in or out.
Metro Key for this function is in wireless Remote Control.

Subtitle   To display subtitles while playing video files
- Korean/English/Japanese/Chinese
Additional languages can be downloaded at www.imuon.com.

SAVE   Bookmark the current page you're viewing.
After choosing SAVE in Sub Menu, push | ▶.
Please note that only the player will only save (bookmark) information on the last page stored.

LOAD   Call the last page you saved.
After choosing LOAD in Sub Menu, Push | ▶.
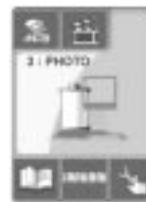
To display PHOTOs

1. Push ON ▶ after selecting PHOTO.

2. From the media folder, you can select the Photo folder where you have stored your photo files. Select the desired file and press ON ▶ to display

| ▶   Display photo

| ▶   Automatically display a photo slide show(push | ▶ for 2 or 3 seconds)

▲▼   Rotate Picture up to 360 degrees in incriments of 90 degrees

◀▶   Display previous photo/next photo

■   Stop/Go to the upper directory in stop status

Menu Go to Sub Menu

To Enter Sub MENU

Press the Menu button on the player, wired Remote Control or the wireless Remote Control while displaying

Sub MENU

Info   Display file information for the currently displayed photo

Zoom/Move Enlarge/reduce the display or move to the left/right to achieve your desired view Push ON ▶ after selecting Zoom mode in Sub Menu and you can make zoom in or out.
Metro Key for this function is in wireless Remote Control

e-BOOK

1. Push ON ▶ after selecting e-BOOK.

2. From the media folder, you can select the e-Book folder where you have stored your text files. Select the desired file and press ON ▶ to display

❘ ▶	Display the text
▲ ▼	Move to the previous page/next page
◀ ▶	Move up/down 10 pages at a time
■	Stop/Go to the upper directory in stop status
Menu	Go to Sub Menu

To Enter Sub MENU

Press the Menu button on the player, wired Remote Control or the wireless Remote Control while displaying

Sub MENU

Info   Display information for the currently displayed text file

SAVE   Bookmark the current page you're reading.

After choosing SAVE in Sub Menu, push ❘ ▶.

Please note that only the player will only save (bookmark) information on the last page stored.

LOAD   Call the last page you saved.
After choosing LOAD in Sub Menu, Push ❘ ▶.

GOTO   Move the page you want to read.

SETUP

You can set or change functions, using the buttons.

After setting up functions, you can go to the Main Menu if you push the Menu button.

To go to Setup MENU

INFO	Player setup information is displayed.
SKIN	Default skin can be displayed or you may select a new skin **<ON/OFF>**
Video	The display direction for video play can be changed. **<VER/HOR>**
Subtitle	Subtitle font size can be set. **<14/16 Pixels>**
e-Book	Text font size can be set. **<14/16 Pixels>**
OUTLINE	Font outline can be set **<ON/OFF>**
OFF TIME	LCD backlight time can be set. This changes the amount of time the LCD light will stay lit if the player is idle, in Audio mode or stop status. **<OFF/5/10/30/60>**
LIGHT	LCD brightness can be set. **<DARK/BRIGHT>**
Photo	Automatic slide show time for photo viewing can be set. **<OFF/3/5/7/10/15/20/30>**
REMOCON OFF TIME	LCD backlight time of the wired Remote Control can be set. This changes the amount of time the wired Remote Control. LCD light will stay lit if the Remote Control is idle and not touched. **<OFF/5/10/30/60>**

REMOCON COLOR - LCD backlight color of wired Remote control can be set.
<White/Green/Sky/Purple/Yellow/Blue/Red>
TV STANDARD   -TV standard mode can be changed.
<NTSC/PAL>

Recharging Method

The player can be charged by AC adapter, USB cable or 24 pin charger in the mobile travel kit. Rechargeable function is automatically activated when the AC adapter is connected to the player.
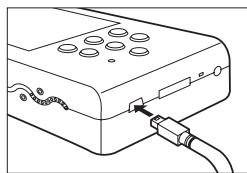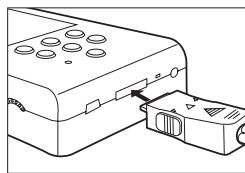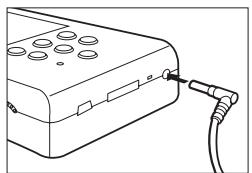
At full discharge, the player needs to be charged for approximately 4 hours. If the player is used while charging, the charging time can be longer. While charging, the charge indicator light will be red and will turn off when fully charged.

NOTE: In case you recharge the player through the USB cable, the rechargeable function will be activated when the USB cable is connected to the player and the PC is powered on.

NOTE: When the player is connected to the PC and is powered on, the player will only function as a removable disk and the play functions will not operate. While the player is on and acting as a removable disk, the LED indicator will display a blue light.

NOTE: When connecting the player to the PC to charge, the player should be powered off before connecting. Powering by USB will also take 2 to 3 times as much time to charge to full capacity as the AC adaptor.

FIRMWARE UPGRADE

iMuon promises you the latest and best features through Firmware upgrades at www.imuon.com.

To upgrade:
1. Connect the AC adapter to iMuon.
   (Caution: Only upgrade the firmware on iMuon with the AC adapter connected.)
2. Download the latest Firmware upgrade files (loader.sdn, romfs.sdn) from www.imuon.com

3. Extract the files and save them to the root folder of iMuon.
4. After the files have been copied, remove the USB cable from iMuon turn the power off.
5. Turn the power back on and the upgrade will be automatically installed.
   At this point, the LCD will display:
   "Firmware Upgrade Checking", "Firmware Upgrade Proceeding",
   After this the Main Menu will be displayed.
6. Connect the USB cable to the player and PC and delete the files downloaded to the iMuon to upgrade the device.
7. Remove the USB cable from iMuon.
8. Turn on iMuon.

NOTE: Do not turn the player off or disconnect the player from the PC until the firmware upgrade file is completely copied to the player.

I can't turn on the player with the wireless Remote Control.
It is not possible to turn on the player via wireless remote control. To save battery time, the IR signal is activated only after the player is turned on. To turn on the player, please press the ON button or the wired remote control. You can, however, turn off the player via the wireless remote control by pressing the Power button.

Which DivX version is supported ?
The player supports to DivX 3.X, 4.X and 5.X and Xvid files.

Why does the screen sometimes freeze for a moment?
The screen may briefly freeze when video files start to play or when the user is using Fast Forward or Rewind. The freezing is caused by the hard disk reading and buffering the file to provide a quality video display.

What subtitle languages are supported ?
The player currently supports subtitles in Korean, English, Chinese, Japanese and Code characters. iMuon also plans to support additional languages through firmware upgrades. Check our web site more details on language availability.

The screen is frozen and the player cannot be turned off.
When the battery is almost fully discharged, the player will go into standby mode for approximately one hour. During this time, the LED will be lit but the player will not be turned on.
the subtitles.

The subtitles are not displayed. Why?
In playing DivX files, the subtitle file name should be the same as the DivX file name. For example, if video.avi is being played, there should be a subtitle file named video.smi in the same folder. If the subtitle file is named differently, the player can not properly display the subtitles.

Does the player support to AC3, DTS and DTS Pass-through?
The player supports AC3 but does not support DTS or related functions.

In some video files, no sound can be heard. Why?
If the video file has been coded only in DTS, no sound may be heard. However, files coded by DTS and AC3 simultaneously will play sound.

The player doesn't turn off.
To power off your player, push and hold the OFF button for several seconds (2 -4 seconds) or use similar power buttons on your wired or wireless remote controls. If the player still does not power off, please reboot the player by pressing the Reset button with a pointed object. If you still have issues, please consult with your iMuon dealer or contact support at www.imuon.com.

What are the viewing angles of the built-in LCD?
The viewing angles up and down are a maximum 125 degrees and left and right are a maximum 100 degrees. The viewing angles to see from the bottom towards the top are a maximum 75 degrees.

Does the player support a Pivot function which switches the screen display 90 degrees ?
The player automatically supports Pivot functions while playing video files.

9. Q & A

Can I transfer the files by USB 1.1?
Yes. The player is compatible with USB 2.0 and USB 1.1. Please note that using USB1.1 can result in a significantly slower transfer speed.

Where can I store a User skin if I want to use it ?
You can store user skins, background.jpg, files in the root folder or in the Setup Menu. If you set Skin mode to ON, the skin at the root level will be displayed.

How many e-book lines are displayed ?
The player will display up to 15 lines at one time.

Why does playback stop when I connect my player to the PC with a USB cable?
If the player is connected to PC with a USB cable, the removable hard disk activates and all functions stop. The player essentially goes in to standby mode to store and/or transfer files. To charge the battery via the PC and the USB cable, please turn the player off before connecting.

Does the player support NTFS?
This player's operating system is based on embedded Linux and supports only FAT32.

Can the player be purchased without the Hard Disk ?
No. The player can only be purchased as a complete product. It is sealed to prevent damage or malfunctions through disassembly or tampering.

10. Product Specification

Category	Item	Specification
HDD	Capacity	20G Byte
	Size	1.8″
	File system	FAT32
PC	OS support	Window 98SE / ME / 2000 / XP, Mac 8.6 / 9.x and X
	Interface	USB 1.1/2.0
Power Supply	AC Adapter	DC 5.0V, 2A
	USB	2.0
	24 Pins	Standard connector for mobile phone
Audio	Earphone Output	40mW(L) +40mW(R) at 16Ω Max. Volume
	Frequency Range	20~20KHz
	Bit rate	32Kbps~320Kbps
	S/N rate	>90dB
Video	Output	NTSC / PAL Composite Video out put 75ohm, 1.0Vpp S-Video Video out put 75ohm, 1.0Vpp Component Video out put 75ohm, 1.0Vpp
File Support	File Type	Mpeg-1, Mpeg-2, Mpeg-4, XivD AVI file : XivD 3.X, XivD 4.X, XivD 5.X MP3, WMA JPEG Image
Power Supply	AC Adapter	DC 5V, 2A
General	LCD	QVGA 2.2″
	USB	USB 2.0 (USB 1.1 Compatible)
	Dimension	110.5 x 64 x 23 mm
	Weight	203g
	Operational Temperature	0 ~ 40°C
Maximum Playtime		Approx. 10 hours (Audio) / 5 hours (Video)

11. Support

If your iMuon player is defective or requires servicing, you may either drop the player by the head office in person or send in the player via mail or express mail service.

When visiting the head office in person, we will repair the player immediately. However, we do ask that you call or email us ahead of time to make a reservation for your visit to insure fast and thorough support.

If you opt to send in your player via mail or express mail service, we will repair your iMuon within 5 working days of receipt and send it back to you. Please send all packages to us prepaid. We will prepay the freight charges when we return the player to you.

■ Web site :
 www.iMuon.com

■ E-mail :
 support@iMuon.com

■ Phone :
 +82-2-2142-1127

■ Fax :
 +82-2-2142-1129

■ Technical support :
 BITWIRE Corp.
 1702 East B/D IT Venture 78, Garakbon-Dong, Songpa-Gu, Seoul Korea

FCC RF INTERFERENCE STATEMENT

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are disigned to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particalar installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technical for help.
- Only shielded interface cable should be used.

Finally, and changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to opteate such equipment.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

FCC ID:SVRAH120A   MADE IN SEOUL, KOREA