

# **yamakawa™**

## ***MP3 Car Stereo System***

### ***MHD-350***



## **User Manual**

## **Introduction**

Thank you for purchasing the **MHD-350**, your entire music library during driving, with no need to pack a suitcase full of CDs!

Your **MHD-350** will allow you to:

- Copy your existing music collection using any computer with a CD-ROM and USB support.
- Carry photos, presentations, documents etc. with you, the harddisc of the **MHD-350** is seen as a removable hard drive by your PC.
- Think of your **MHD-350** as a superb jukebox that also functions as a car digital audio studio!
- **MHD-350** provides audio source from MP3 format and FM radio channel (with 6 memory keys for channel and fuzzy logic channel searching).
- **MHD-350** also accepts audio input from other sources (from CD-changer, MD, DAT, walkman and sound processor)
- **MHD-350** comes with a sub-woofer output that allows connection to any active sub-woofer.

Please take the time to read this instruction manual thoroughly before using your **MHD-350**.

This product generates radio frequency energy and must be installed and used in accordance with the manufacturers instructions. The **MHD-350** has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Relocate this equipment with respect to the receiver
- Move this equipment away from the receiver

If necessary, the user should consult the dealer or an experienced radio/television technician for help.

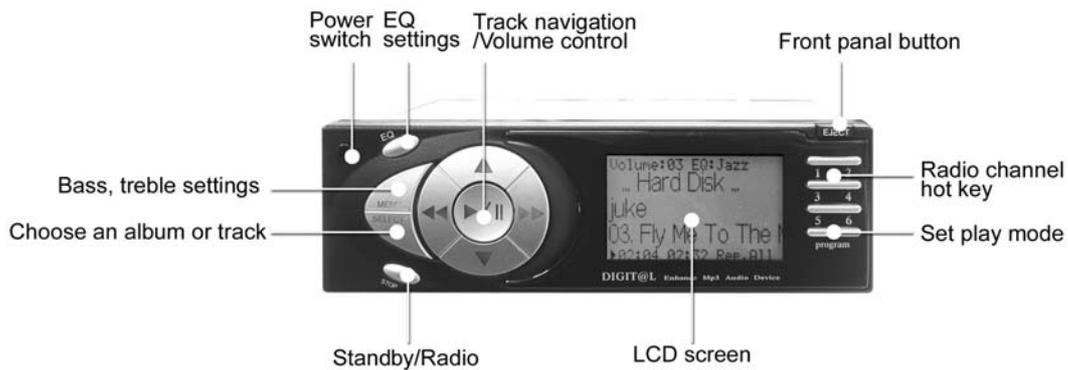
### **Precautions**

1. Be sure that only the supplied power supply/charger is used.
2. Do not open the top or bottom covers of the unit, this will void the warranty.
3. Do not install **MHD-350** in places where it may be exposed to extremes of heat and cold, dusty and damp environments.

Cleaning: Do not use hard cloths, paint thinner, alcohol or other volatile solvents. These may damage the external surfaces of your **MHD-350**'s components or remove indicator characters.

Yamakawa will accept no responsibility for any damages (including consequential or incidental) incurred by the customer or any third party as a result of loss or impairment of the data stored on **MHD-350**, regardless of whether such loss could have been or actually foreseen by Yamakawa.

## Operation



## Handling Instructions

Please read all the instructions carefully before handling your **MHD-350**.

### **BE CAREFUL WHEN STORING THE MHD-350**

Avoid places with high humidity, strong magnetic fields, or extreme temperatures when you store your **MHD-350** or hard drive.

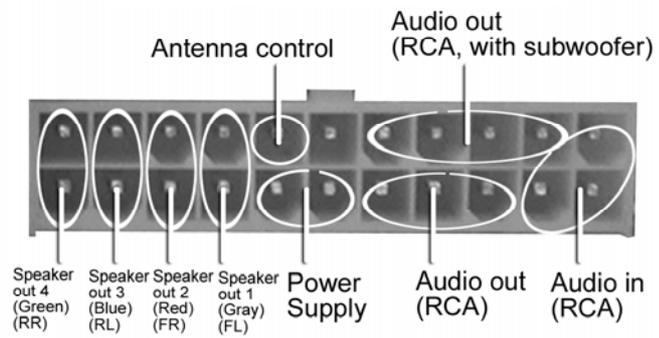
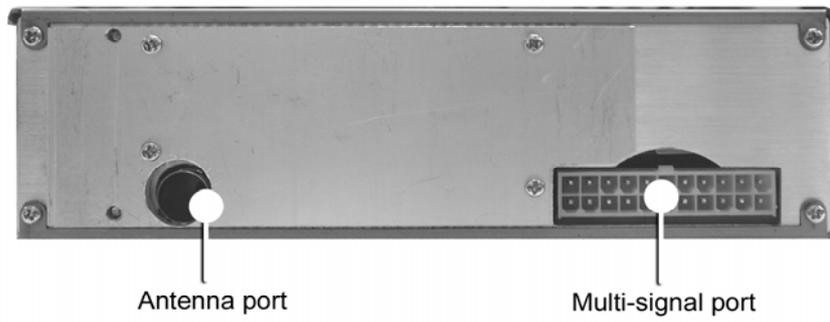
### **DO NOT SUBJECT THE MHD-350 TO SEVERE IMPACT OR JARRING**

### **KEEP THE MHD-350 AWAY FROM WATER**

If water enters the **MHD-350**, damage may result. If the **MHD-350** comes into contact with water, wipe immediately with a dry cloth.

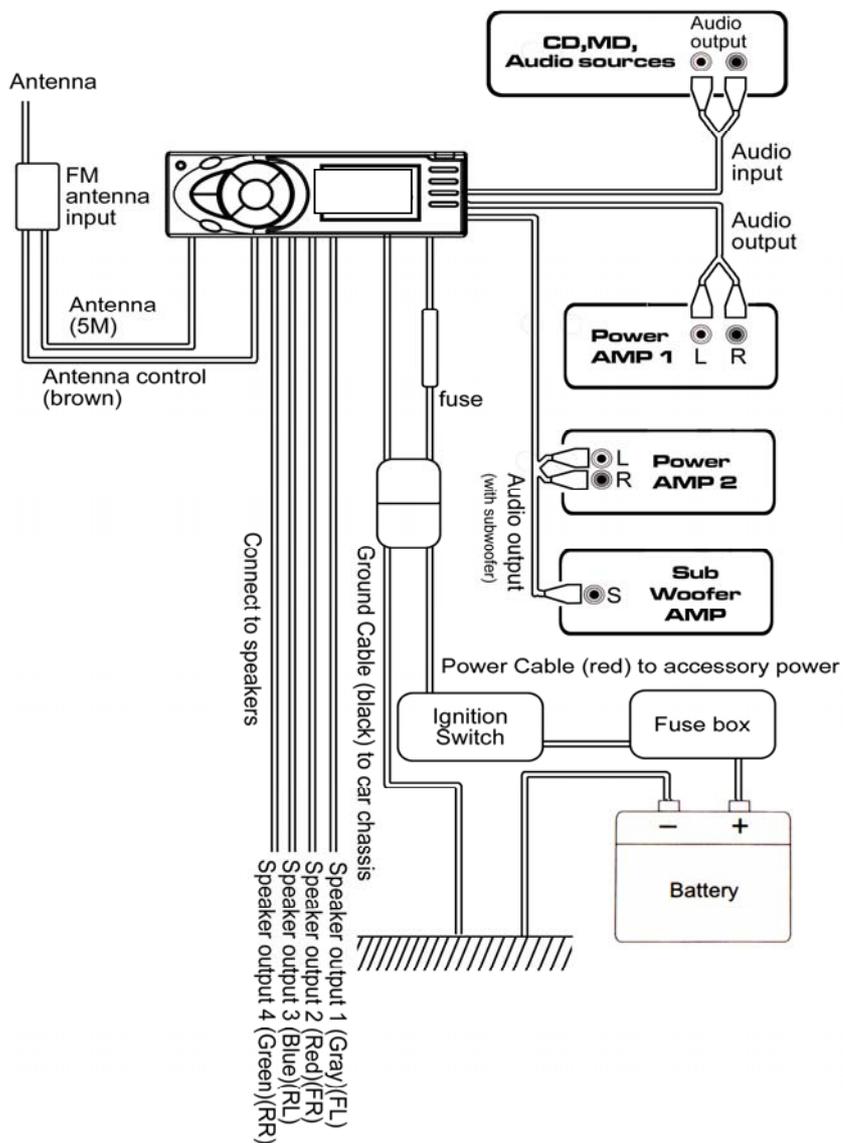
**COPYRIGHT INFORMATION:** Please note that the **MHD-350** is to be used only as a car audio studio for authorized content only. Copying, downloading and transferring music or any other files without permission from the artist or holder of copyright is expressly forbidden. Yamakawa and it's resellers will not be liable for unlawful use of the **MHD-350**.

## **Back Side of MHD-350**

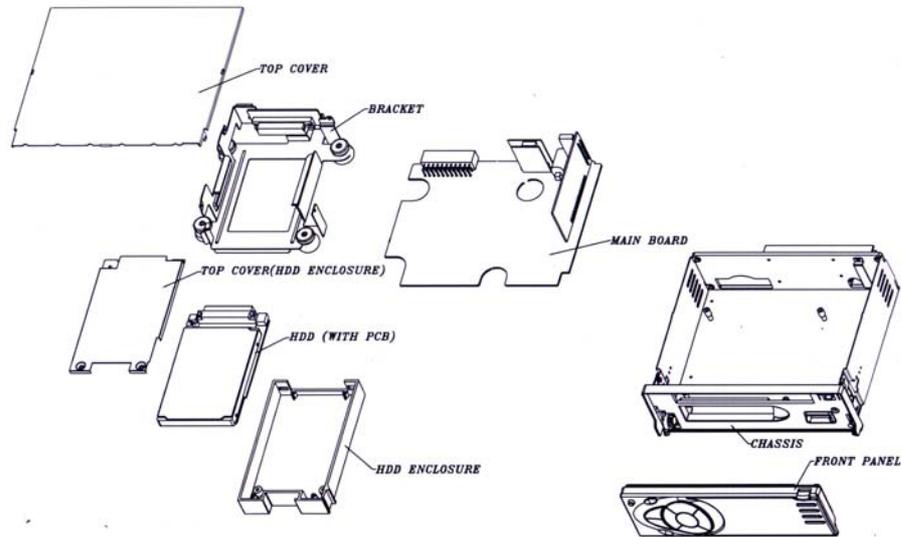


**Chart of Multi-signal port**

# Install the MHD-350 in your car



## **Installing the MHD-350 HDD**



Above figure shows the exploded drawing of **MHD-350**. If you have to change the HDD, you have to read the chapter and be careful to complete the installation step by step.

**Limited Warranty does not apply to damage that occurs HDD installation.**

## Remove HDD



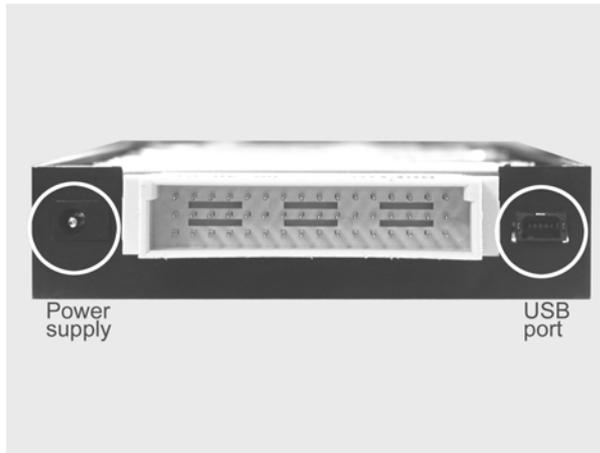
1. Push the "EJECT" button to eject the front panel.



2. Hold the front panel and push to right side, and remove the front panel.

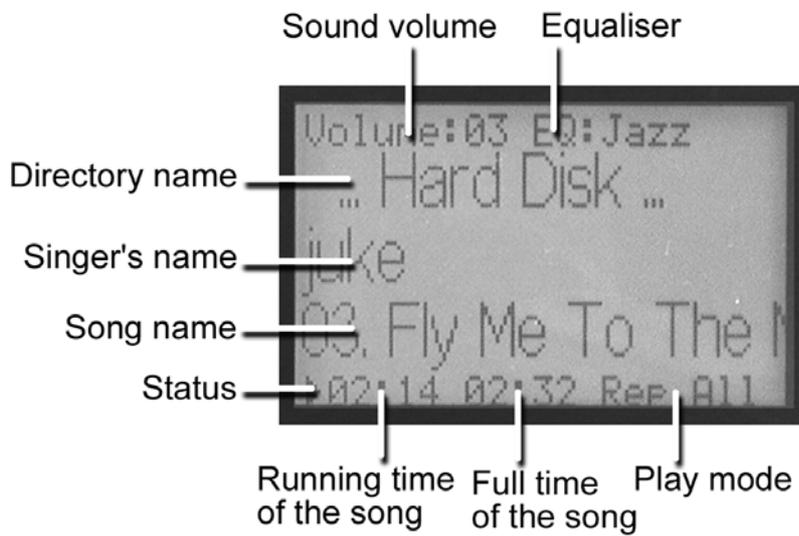


3. Press the left side of the HDD enclosure and take it out.



4. There are power and USB port on the backside of the HDD enclosure. Now, you can connect it to your computer and download all your favorite music!

## Display



## Play Modes (Program)

The **MHD-350** supports various play modes, such as repeat, repeat all, random, random all, directory only and continuous. As the “**Program**” button is pressed, the play modes seen below cycle on the LCD.

- 1 time “Repeat” **MHD-350** will repeat the current song until “Program” button is pressed. Repeat
- 2 times “Rep.All” **MHD-350** will repeat all the songs of current directory being played. RepAll
- 3 times “Random” **MHD-350** will play songs from the current directory at random. Random
- 4 times “Ran.All” **MHD-350** will randomly play any song in any directory. RanAll
- 5 times “Dir.Only” **MHD-350** will play all the songs in the current directory until the last song of this directory, then **MHD-350** will get into “Standby” mode. DirOnly
- 6 times “Continuous” Or by not pressing “Program” as default the screen shows nothing. The **MHD-350** will play all the songs one by one until the last one on the hard drive is reached.

### Keypad lock – Press “Program” and hold on a moment

If you have to keep **MHD-350** operating mode without any changing, you can press “program” and hold on a moment until **MHD-350** show “keypad locked” on the display, keypad is locked. In the same way, you can unlock the keypad with the same method.

## Equalizer Features (EQ)

**EQ** Press [EQ] one short press and the screen will show "EQ" flash.

Press [UP] and [DOWN] to adjust EQ mode.

Sequence of EQ mode are **Rock, Pop, Jazz, Classic** and **User**.

EQ:Rock

EQ:Pop

EQ:Jazz

EQ:Classic

EQ:User

## Audio Settings (MENU)

**Balance** Press [MENU] the screen will show "Bal:".

Press [UP] and [DOWN] to adjust the balance of left and right speaker.

Bal:L 0 R

**LCD lvl** Press [MENU] twice times and the screen will show "LCD: turns off".

Press [UP] and [DOWN] to adjust the LCD back light display.

**Turns off** The LCD back light will turn off automatic in 6 seconds after touching.

**Always on** The LCD back light will always light.

**Always off** The LCD back light will be turn off.

**Fader** Press [MENU] three times and the screen will show "Fader:"

Press [UP] and [DOWN] to adjust the balance of front and rear speaker.

Fed:F 0 R

**When EQ mode is "User"** .....User can define the equalizer (bass and treble) manually under this mode.

**Bas** Press [UP] and [DOWN] to adjust the bass.

**Tre** Press [UP] and [DOWN] to adjust the treble.

Bas:- 0 +

Tre:- 0 +

## **Playing MP3 Music (SELECT)**

Users can easily access the MP3 music files stored in your **MHD-350**. The first time you use your **MHD-350** it will automatically detect any songs contained inside the hard drive (this may take a few moments).

### **Basic Controls**

Press	[PLAY]	to play the song in current directory.
Press	[PLAY] <sub>(again)</sub>	to pause the currently playing song.
Press	[STOP]	to stop the current song in current directory.
Press	[FF]	to play the next song in current directory.
Press	[FF] <sub>(press and hold)</sub>	to quickly go through current song.
Press	[FR]	to play the last song in current directory.
Press	[FR] <sub>(press and hold)</sub>	to quickly go backward through the current song.
Press	[UP]	to adjust the volume up to 30 (max).
Press	[DOWN]	to adjust the volume down to 0 (min).

"SELECT" is the main key to enter the browsing mode. Pressing browse and the up / down arrow keys enables you to scroll up or down through the song / directory names. When the desired directory has been found, it can be entered by pressing the FF button, and then the songs can be selected in the same way with the up / down arrows. To play a particular song, select it and press the play button. While in "SELECT" mode, pressing "SELECT" again will exit the Browsing mode and show you the current song being played.

Press	[SELECT]	shows current songs / directories within the current HD location.
Press	[UP]	scrolls upwards through the list
Press	[DOWN]	scrolls downward through the list
Press	[FF]	enter selected Directory
Press	[FR]	move up one directory level (to max.of root directory)
Press	[PLAY]	play selected song

## Stop/Standby/Radio/Ex-audio mode

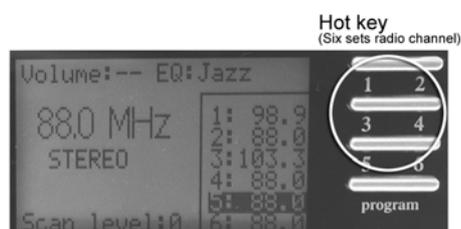
Press “Stop” to stop the current song in current directory.

### “Standby” function

To put the **MHD-350** in sleep mode, press the "Stop" key for over two seconds. To resume normal operation, press the "Stop" key for over two seconds again.

### Press “Stop” again to FM radio mode.

To put the **MHD-350** in FM radio mode, press the “Stop” key again. You can setup the channel which you want by [UP] or [DOWN]. You can press “Hot key”



FM radio mode display

to FM radio mode, too. The channel will be taken down in MHD-350 when you select another channel.

### Press “Stop” twice to Ex-audio mode.

To put the **MHD-350** in Ex-audio mode, press the “Stop” key twice. You can connect external audio source (such as CD/MD/car stereo). Press “Stop” again the **MHD-350** will be back to MP3 stop mode.

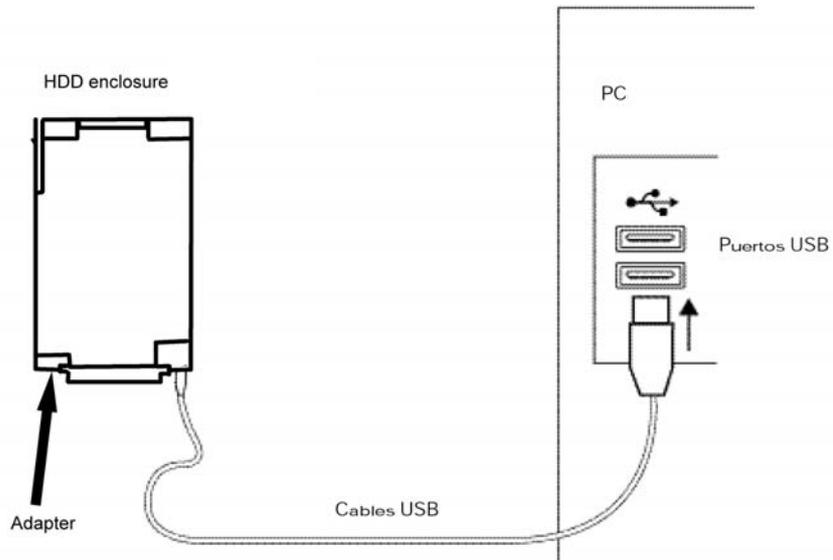
## Connection & Installation

### Connecting the HDD enclosure of **MHD-350** to your computer

**IMPORTANT NOTICE!** During installation, it is recommended that the HDD enclosure be directly connected only to your computers “USB” port, not via other ports or devices.

**IMPORTANT:** Before connecting the HDD enclosure of **MHD-350** to your computer make sure that the HDD enclosure is plugged power certainly.

When you plug in the USB connector to USB Port, your computer will recognize the HDD enclosure as a removable hard drive.



**IMPORTANT NOTICE!** Please plug the adapter to the HDD enclosure before you connect it to the computer USB port.

# Install the MHD-350 USB driver

1. Install driver floppy disk, Run A:/setup.exe to install the driver



2. Press "Next"



3. Select destination directory and press "Next"



4. Press "Next"



5. Press "Finish". Try plug/unplug once or twice to make sure drive is successful installed.

**Important!** Windows 2000 & Windows ME Supported by Microsoft default driver Windows 98 & Windows 98 SE Supported by USB Storage driver. Mac OS 9.0 Supported by Apple default driver, Mac OS 8.6 Download supplement driver from [www.apple.com](http://www.apple.com)

## **Troubleshooting**

<b>Problem</b>	<b>Solution</b>
How to change the HDD disk drive of <b>MHD-350</b> ?	<ol style="list-style-type: none"><li>1.First, you have to format a 2.5" hard drive disk for fat32 file format.</li><li>2.Copy your MP3 files to your hard drive disk.</li><li>3.Take out the hard drive disk enclosure from <b>MHD-350</b> and exchange the hard drive disk.</li></ol>
When the HDD enclosure is plugged into the computer via the USB no new hard drive appears.	<ol style="list-style-type: none"><li>1.Check the connection between the unit and the computer. Ensure the USB cable is fully inserted into both the HDD enclosure and your computer.</li><li>2.Right click with your mouse on the "My Computer" icon and choose: "Properties", then go to the "Device Manager". Go to the "Universal Serial Bus controller" and remove all the drivers in the USB controllers by clicking the remove button. Restart your computer without the HDD enclosure plugged in. After the computer has loaded all the USB drivers reinstall the <b>MHD-350</b>'s USB drivers and reboot your computer. Plug the <b>MHD-350</b> USB cable into the computer. You should now see the hard drive appear under "My Computer".</li><li>3.If the problem still persists try connecting the HDD enclosure with a different computer and see if the problem has been fixed.</li></ol>
Hard Drive is making strange clicking noises and unit is not working	This problem happens when the hard drive has received a severe shock. Contact technical support immediately for further assistance.

## **Technical Specifications – Hardware**

LCD DISPLAY	Liquid Crystal Display (LCD) Screen Graphic mode LCD ( 128 X 64 ) with EL backlight
MEMORY	RAM: Built-in 8 MB buffer MEDIA: 2.5 inch EIDE/Ultra DMA IDE HARD DRIVE (optional)
DIMENSIONS	Outer case size: 150mm(D) x 181mm(W) x 55mm(H)
Audio Amplifier	50W B class (Min) X 4 channel (RL,RR,FL,FR)
INTERFACE	PC: Mini USB (Universal Serial BUS) Port (transfer rate 800KB/sec) HDD: EIDE
OPERATING SYSTEMS	Windows 95/98/ME/2000/XP Macintosh Computer Mac O/S 9 and above.
POWER	Car DC:11-14V Adapter AC: Input: 110/220V, 50/60Hz - DC Output: 5.0V 1.5A
D/A CONVERTER	18 bit
THD	Better than 0.01%
FREQUENCY RESPONSE	20Hz - 20 kHz
RADIO	FM fuzzy logic auto turning radio with 6 memory for radio stations

All specifications are subject to change without notice.

## **Bios Updates**

The **MHD-350** is capable of using flash bios updates. These updates can be used to add features and functionality to the player in the future. The bios update process is very easy and will take approximately one minute.

1. Check [www.yamakawa.de](http://www.yamakawa.de) for a new bios update file, click to download if found (Please make sure the version is the newest or not).

2. Unzip the bios file; save the .BIN file inside to any location on your computer's drive.
3. Turn the **MHD-350** on and connect the USB cable.
4. Copy the .BIN file over to your **MHD-350**'s root directory (do NOT place it inside a folder).
5. Unplug the USB cable and turn the **MHD-350** off.
6. Hold the "PROGRAM" button then turn the player on, an update menu will load.
7. Release the "PROGRAM" button then tap "PLAY" - "PLAY" - "BROWSE" to update the bios.

## **Limited Warranty**

**MHD-350** is warranted to be free from failures due to defects in material and workmanship for one year from the date of original purchase as evidenced by a copy of the purchase receipt. During the warranty period, Yamakawa (at sole discretion) will repair or replace at no charge, a product which, in its opinion, is found to be defective.

If the failed product has been modified in any way without the consent of Yamakawa or if the failure is the result of misuse, abuse, or misapplication, Yamakawa has no obligation to repair or replace the failed product.

Except as expressly provided above, the hardware and accompanying written materials (including the users guide) are provided 'as is' without warranty of any kind including the implied warranties of merchantability and fitness for a particular purpose. This specifically does not warrant the operation of the hardware and Yamakawa will not be liable for any direct, indirect, consequential or incidental damages arising out of the use or inability to use such product even if Yamakawa has been advised of the possibility of such damages.

