



User instruction Manual

Please read the user manual carefully before you start to use the Internet Radio for the sake of preventing unpredictable events.

Technical Requirements

The system provided a 16 characters * 2 lines LCD display which act as a display unit. For the control unit, we have adopted micro-controller PIC18F67J60. Audio stream system has used VS1015 MPEG Audio Codec from VLSI for decoding and playing audio stream.

Features

Main features of the Internet Radio

- Able to connect the radio server
- Receives and plays audio from Internet Radio stations and SHOUTcast server
- Configuration: Volume, Bass
- Connector for MPLAB ICD2 In-Circuit Debugger / MPLAB REAL ICE In-Circuit Emulator
- Web page remote configuration

Electrical

Input: 6Vdc and 4x1.5V Batteries

Environmental

- Operating temperature: -10-degree C to 50-degree C
- Storage temperature: -20-degree C to 85-degree C
- Humidity: 0% to 95% RH non-condensing

Equipment and Facilities

- PC Operating system:
 - Windows (MAC is not supported)
 - MPLAB IDE



Button definition



From the left:

- i. Access the station's configuration interface, adjusting volume, bass and channel to a lower value
- ii. Bass configuration and home button
- iii. Volume configuration and adjusting volume, adjusting volume, bass and channel to a higher value

Procedure to listen and configure

You need to prepare the following equipment before using:

- Internet Radio
- Headphone (Optional)
- MPLAB IDE
- Web Browser (For configuration)
- Ethernet Cable
- A network (Able to have Internet access and a DHCP server)



Steps

1. Plug the ethernet cable into the 8-pin modular Ethernet jack and the live Ethernet jack to your network.
2. Plug the power supply.
3. Plug the USB Cable into the USB port
4. Use the MPLAB to build all program and download the built program into the internet radio so as to run it.