

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

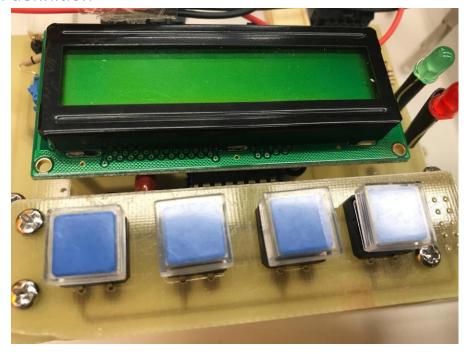
- Operating temperature: -10-degree C to 50-degree C
- Storage temperature: -20-degree C to 85-degree C
- Humidity: 0% to 95% RH non-condensing

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

The Hong Kong Polytechnic University Internet Radio User Manual



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.