Overview

The **IoT Healthcare Training System** is an advanced educational platform designed to study and develop **IoT-based healthcare solutions**. It enables students and researchers to understand the full IoT workflow — from **bio-signal measurement** and **data acquisition** to **cloud-based monitoring and analysis**. The system supports both **wired and wireless environments**, offering hands-on practice in developing connected healthcare applications.

Features

- Comprehensive coverage of IoT structure: **Content (C) – Platform (P) – Network (N) – Device (D)**

- Integrated **bio-signal measurement modules** for real-time monitoring and analysis

- Supports **EOG, ECG, EMG, PCG, HHI, HRV, BP, and BT** signal measurement through firmware development

- Simultaneous acquisition of **up to eight bio-signals** displayed on a **touch monitor panel**

- Wireless connectivity via **Bluetooth** and communication through **IoT Gateway**

- Data acquisition and storage via **IoT Cloud or Local IoT Platform**

- Event-based IoT service creation (e.g., **automatic email alerts**)

- Ideal for **IoT healthcare training, bio-signal analysis, and cloud service integration**

Technical Specifications

Parameter	Details
System Components	Bluetooth Module, EOG, ECG, EMG, PCG, HHI, HRV, BP, BT Modules, DAQ Module, Gateway, Monitoring LCD, Sensor Module & Accessories
Bio-Signals Measurable	EOG, ECG, EMG, PCG, HHI, HRV, BP, BT
Measurement Mode	Wired and Wireless (Bluetooth)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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Parameter	Details
Display	Integrated touch monitor for real-time data visualization
IoT Platform	Compatible with both Cloud IoT Platform (subscription-based) and Local IoT Platform with storage
Communication Interface	IoT Gateway for data transmission to platform
Firmware Platform	Arduino/Embedded firmware development environment
Event Function	IoT Platform event-based automation with email notifications
Accessories	Electrodes, Blood Pressure Cuff, Frequency Generators, Connecting Cables
Power Supply	230V AC ±10%, 50Hz

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