

Spectrochem Instruments Home Automation Kit



The complete system is fitted into a Hard Suitcase and houses various Lighting options, lighting controls, a small Fan, its speed control, conventional Switches, Capacitive Touch Switches, Sockets & their control, learning remote IR Blaster, AV Streaming & HDMI Display.

The kit is totally integrated and self supporting, just requires external AC mains power. A Wireless router connects the embedded web server that provides Control through a browser interface, an Android App is also provided which connects to the server through sockets and offers total remote control. The kit if connected to internet may be accessed from any part of the world, for this we provide a DynDns/NOIP Ip that is configured into the router and the web server's port is forwarded so that remotely it may be connected to and controlled.

What one gets to learn...

- 1) Networking (Setting up the Router, Port Forwarding)
- 2) Setting up Various Control hardware
- 3) Xbee, RS485, WiFi communication
- 4) Light control, Zero Cross, Dimming (Phase angle, PWM & Analog)
- 5) Passive Infra Red Motion Detector & integration with lighting
- 6) IR Signals, Learning & Replicating
- 7) Building a Protocol for Home Automation.
- 8) Developing a Control App for Android, IOS & Windows
- 9) DLAN, Audio & Video Streaming.
- 10) Extension of Home Automation with Addons



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