Note Shown image is just for illustration original may differ

The STEM Sensor Trainer -Nvis 2300 Quanta is an innovative educational tool designed to inspire and empower students in the field of electronics and sensor technology. Featuring the STM32 Blue Pill board and our proprietary software Quanta, this product seamlessly interfaces with a wide range of sensors. Students can observe and analyze sensor data directly on the software, gaining practical experience with real-time data visualization and system interaction.

Features

- Integrated voltmeter for voltage. measurement.
- Two input channels for sensor connections.
- Two output ports for external device control.
- Compatibility with multiple sensor types.
- Real-time graphical data visualization through the Quanta software.

Scope of Learning

- Vibration analysis with vibration sensors.
- Illuminance measurement using light sensors.
- Voltage monitoring through voltage sensors.
- Fire detection using flame sensors.
- Environmental monitoring with temperature sensors.
- Motion detection with motion sensors.
- Acoustic analysis using sound sensors.
- Magnetic field detection through magnet sensors.

Technical Specifications

MCU	:	STM32F103C8T6
Development board	:	STM32 blue pill
Clock frequency	:	72 MHz
Architecture	:	ARM cortex-M3 core
Onboard GPIO	:	4 pins
Communication	:	Serial
Serial port	:	USB-B (female)
Analysis software	:	Quanta

Subject to change - Version 2.0