The Manual describes the hardware specifications, such as connectors and the DIP switch, of a gyro/acceleration sensor extension board “VS-IX001” (to be referred to as the “gyro/acceleration sensor extension board”) for a small CPU board “VS-RC003” for robots.

The names of the connectors, etc. used in the Manual abide by the description of a list of connectors provided at its end. See the list for your information.

- **SW1**
  - SW1-1, SW1-2: Sets the sensitivity of an acceleration sensor.
    - $\pm 1.5G$: off  off
    - $\pm 2G$: off  ON
    - $\pm 4G$: ON  off
    - $\pm 6G$: ON  ON
  - SW1-3, SW1-4: Sets an IXBUS address.
    - 0x90: off  off
    - 0x92: off  ON
    - 0x94: ON  off
    - 0x96: ON  ON

A DIP switch located on the gyro/acceleration sensor extension board. It is used to set the I2C bus address of the gyro/acceleration sensor extension board and the sensitivity of the acceleration sensor. For the I2C bus address, the RobovieMaker for VS-RC003 has the same setting item. Ensure that the setting of the item conforms to that of the DIP switch.
• CN1 IXBUS
  A connector to connect to the VS-RC003. The details of its pins are omitted.

• Sensor Coordinate System
  The coordinate system of various sensors mounted onto the VS-IX001 abides by the following figure. Seeing this coordinate system, determine the position and direction of the board installed into the robot.

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