

XC3704 Non-contact IR Sensor Module

The XC3704 Non-contact IR Sensor Module is based on the MLX90614 sensor and provides similar functionality to the non-contact 'laser' thermometers (but without the laser). This sensor features a field of view up to 45 degrees of centre axis. As for using other non-contact thermometers, tips such as using some matte tape to cover reflective surfaces also apply.

Although the MLX90614 is rated for 3.3V operation, the module board provides a 3.3V regulator for interfacing to 5V systems. When used with pins in I2C mode, the module is safe to use with 5V systems as the I2C pins should not pull the pins up to 5V. The module has the requisite pull-up resistors to 3.3V. The I2C address of the module is 0x5A (7bit). For more information, see the MLX90614 datasheet.

To use under Arduino, search for 'MLX90614' under the Library Manager or download directly from <https://github.com/adafruit/Adafruit-MLX90614-Library>. The 'mlxtest' sketch provides a demonstration of basic operation of the sensor.

