

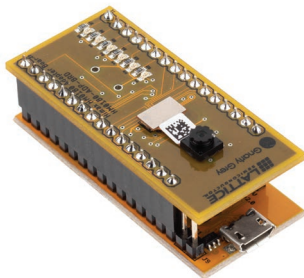
This document provides a brief introduction to Himax HM01B0 UPduino Shield.

1

Check Kit Contents

The Himax HM01B0 UPduino Shield contains the following items:

- UPduino 2.0 Board
- Himax HM01B0 Adapter Board
- Micro-USB Cable
- Quick Start Guide

**2**

Using the Himax HM01B0 UPduino Shield

Note: The SPI Flash Configuration Memory on the Himax HM01B0 UPduino Shield is preloaded with the Human Presence Detection demonstration described below. You can download additional demonstrations and learn how to reprogram the board at www.latticesemi.com/himax.

3

Installing the Software

The Himax HM01B0 UPduino Shield is pre-programmed with the Human Presence demonstration.

To develop your own solutions, download and use the Lattice Radiant Design Software (Version 1.0 or later), downloadable from www.latticesemi.com/radiant.

If you only need to re-program the board, you can use the Radiant Programmer standalone software (Version 1.0 or later).

4

Powering the Board & Observing the Demo Program

Connect the micro-USB cable to the board to provide power on the board. Upon boot up, the Human Presence demonstration will be loaded from SPI Flash to iCE40UP and begin running. When a human is detected in a region of the camera's field of view, the corresponding LED lights. This is summarized below:

LED POSITION TOP TO BOTTOM	CAMERA REGION INDICATION
LED 1	Upper Left
LED 2	Upper Right
LED 3	Lower Left
LED 4	Lower Right
LED 5	Center Zoom
LED 6	Full Image

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Doing more with the Himax HM01B0 Shield Board

Check the Lattice website at www.latticesemi.com/himax to download the full User's Guide, additional demonstrations and other resources.

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