

# Application User Manual

Rev: A0

22 Sept 2014

# USER'S GUIDE FOR ISL29011 SENSOR PRINTER APPLICATION

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# **Revision History:**

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# Table of Contents

1	INTE	INTRODUCTION		
	1.1	FEATURE:	5	
2	INST	TALLING THE APPLICATION	6	
	2.1	Installation files	6	
	2.2	INSTALLATION PROCEDURE	6	
	2.2.2	1 Extracting the files	6	
3	USIN	NG THE APPLICATION	9	
4	SET	THE CONFIGURATION	12	
	4.1	Paper Tray:	12	
	4.2	PHOTO TRAY:	16	



#### 1 Introduction

This application manual explains the Printer Application of ISL29011 Sensor. Which will calculate the number of pages remaining in the paper tray as well as photo tray by using the proximity count.

This application will be compatible for Windows XP/7/8/8.1 platform.

#### 1.1 Feature:

- 1. View proximity count as well as paper remaining continuously.
- 2. Work for two types of tray.
  - a) Paper
  - b) Photo

Each tray contains indivisually six type of papers

#### Paper Tray:

- a) PaperPoint Typing Paper (60g/m2)
- b) Paper One Copier HSPCP (70g/m2)
- c) Paper One All Purpose (80g/m2)
- d) A'Zone perfectCopy (100g/m2)
- e) A'Zone perfectCopy Nature (160g/m2)
- f) A'Zone perfectCopy (160g/m2)

#### Photo Tray:

- a) Photo paper one
- b) Photo paper two
- c) Photo paper three
- d) Photo paper four
- e) Photo paper five
- f) Photo paper six
- 3. Grid view for the LUT tables.
- 4. Edit the LUT values for a particular paper type in running application
- 5. User Compatible modes
  - a) Continuous
  - b) Once
- 6. Easier switch from one tray to another tray using radio button



# **2 Installing the Application**

This application is deployed for Windows xp/7/8/8.1 platform. Necessary updates and software upgradations will be provided for the same in final release with concern to Intersil feedbacks.

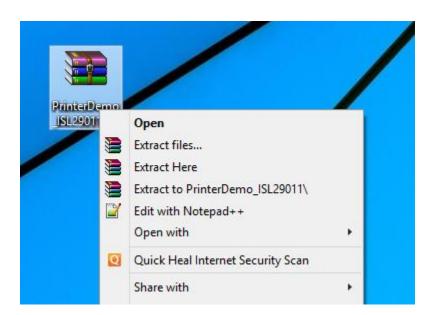
#### 2.1 Installation files

.exe file provided by intersil for this application.

# 2.2 Installation procedure

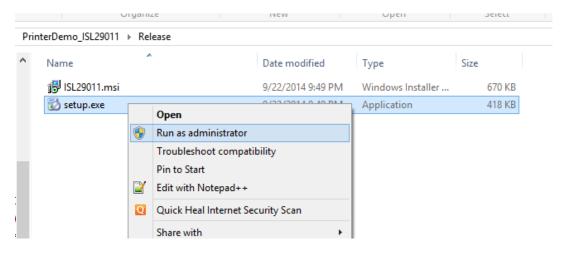
# 2.2.1 Extracting the files

- Log onto host computer running Windows operating system, using an account with local administrator privileges.
- Copy the application package archive (PrinterDemo\_isl29011.zip) to anywhere in the hard disk.
- Open the appropriate subdirectory as per the host computer architecture.





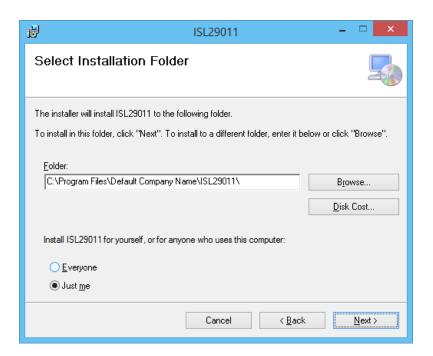
• Install the Application



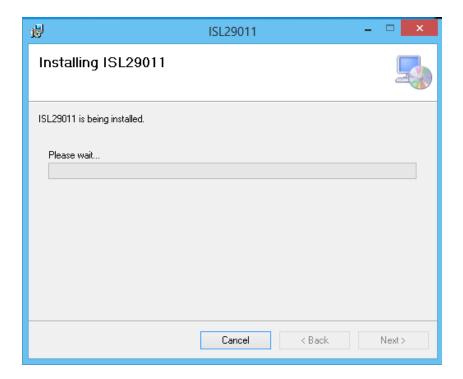
Press the Next button to continue installation.







• Choose the appropriate path where we want to install the application.





• After successful installation user should be able to find the application tile on the Start screen. Click on the application tile to run it.



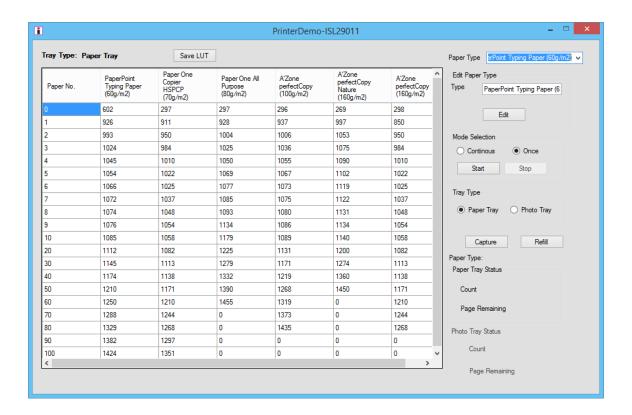
# 3 Using the Application

- Now Select the Printer App and connect your sensor board with your running printer machine tray and press the connect application.
- Press connect button to run the application.



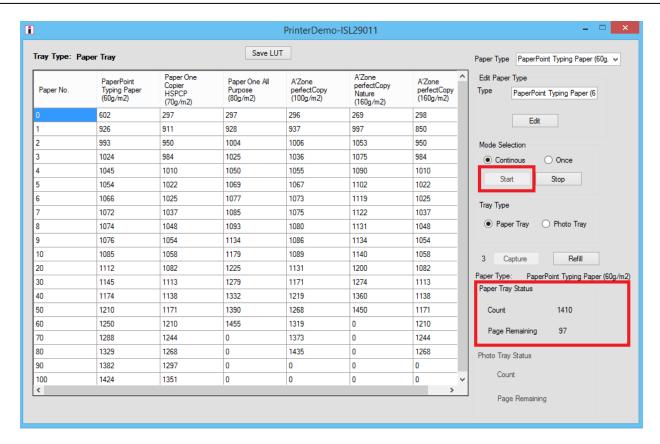


• The below page is the default page



• We can select the paper tray and observe the status for the proximity count value and number of pages remaining in the paper tray of printer.





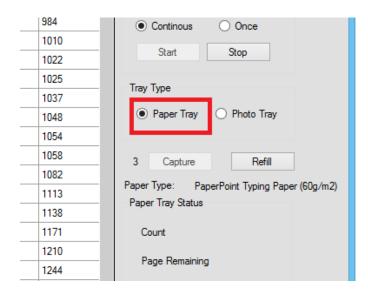
 We can choose the photo tray and observe the current status of proximity value and number of pages remaining samilar to paper tray.



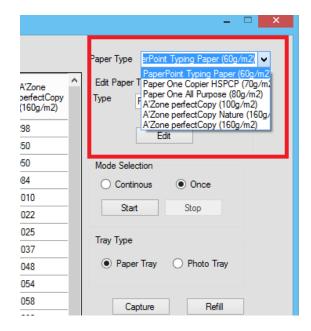
# 4 Set the configuration

# 4.1 Paper Tray:

• Select the radio button as a Paper tray

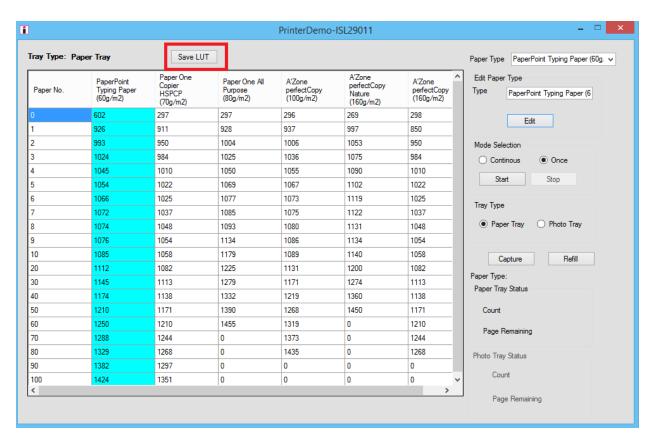


• Choose the Paper Type to fill the LUT table according to the proximity count and press Edit button.



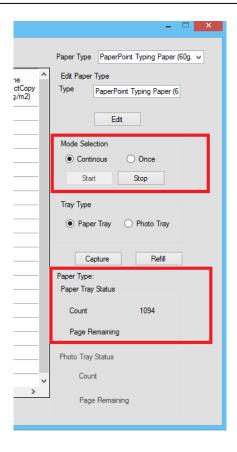


• Now we can edit only that particular column and save it after the edit complete, similarly we can edit the other values of the LUT table and save it.



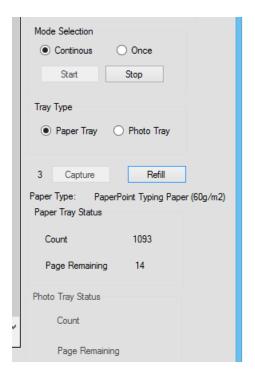
- After the save LUT we are ready to run the application. And select the mode in which we want to
  operate it like continuous and once.
- If we select continuous now press start to enable the sensor to display the count value on the screen. And stop it if we finished our all operation.
- Similarly if we select once mode only the start button will be enable it will stop automatically.





- Now remove one paper from the paper tray and press the capture button. This step will be repeat three times and internally algorithm will calculate the slope of paper.
- Now we can able to see the number of remaining pages in the paper tray.



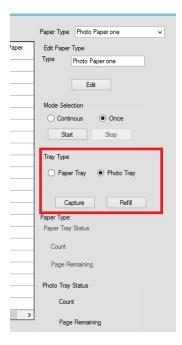


- If we want to refill our paper tray then all the above steps we have to follow again to get the remaining paper count value.
- If we chooses once mode we have to press the capture button manually three times because it takes reading one time automatically. After three capture it starts to display the number of pages same as continuous mode.

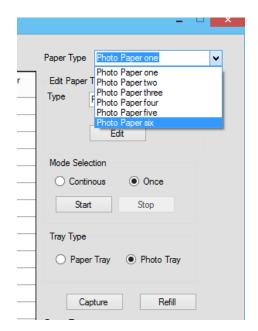


# 4.2 Photo Tray:

• Select the radio button as a Photo tray

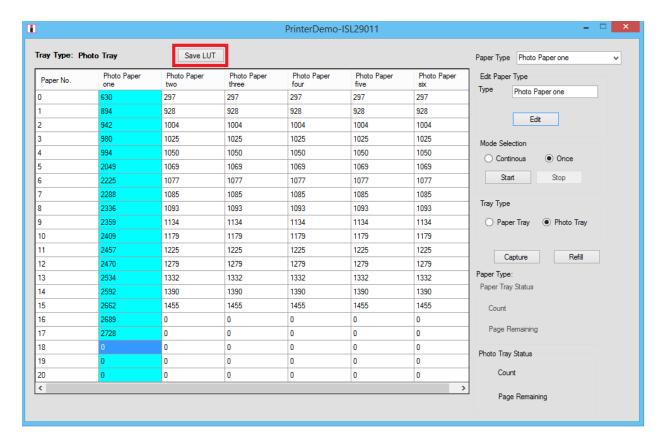


• Choose the Photo Type to fill the LUT table according to the proximity count and press Edit button.



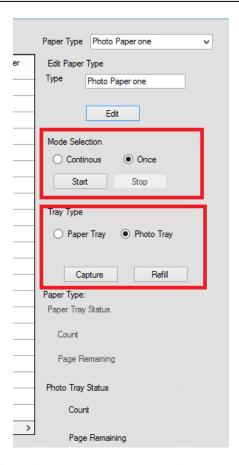


• Now we can edit only that particular column and save it after the edit complete, similarly we can edit the other values of the LUT table and save it.



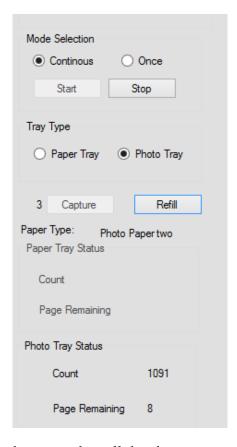
- After the save LUT we are ready to run the application. And select the mode in which we want to operate it like continuous and once.
- If we select continuous now press start to enable the sensor to display the count value on the screen. And stop it if we finished our all operation.
- Similarly if we select once mode only the start button will be enable it will stop automatically.





- Now remove one paper from the paper tray and press the capture button. This step will be repeat three times and internally algorithm will calculate the slope of paper.
- Now we can able to see the number of remaining pages in the photo tray.





- If we want to refill our photo tray then all the above steps we have to follow again to get the remaining photo count value.
- If we chooses once mode we have to press the capture button manually three times because it takes reading one time automatically.

#### NOTE:

- All the LUT values in a column will be in ascending order (from top to bottom) and the row will be minimum to maximum(depends on paper thickness)
- Replace maximum height by 0 at the end of each column when filling the LUT table (We replace maximum height by 0 for algorithm calculation in next release we will make it user convenient)