Technical Note

MT9P012
Obtaining the Unique Sensor ID Number

Introduction

This technical note outlines the procedures to obtain the unique sensor-identification (ID) number. Image sensor manufacturing typically goes through a maturing process which requires the image sensor to have physical changes to correct for design errors, add feature improvements, and manufacturing tolerance improvements. Each time a physical change occurs to the image sensor a new manufacturing version is created. This version information is reflected as a unique sensor ID number which can be accessed through a two-wire serial interface READ operation of designated register addresses.

How to Read the Unique Sensor ID Number

Follow the steps below to obtain the unique sensor ID number:

1. Set the register bit field R0x301A[5] = 1.
2. Read the following 16-bit registers: R0x31F4, R0x31F6, R0x31F8, and R0x31FA.
3. The 64-bit combination of these four registers (R0x31F4[15:0], R0x31F6[31:16], R0x31F8[47:32], and R0x31FA[63:48]) will be the unique sensor ID number.

Conclusion

This technical note provides instructions for obtaining the unique sensor ID number of the MT9P012 CMOS digital image sensor. For further information and assistance on this or other features, refer to www.micron.com/imaging.

Revision History

- Initial release