

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

## SM32ProForSM301vR6 Release Note

### 1. Introduction

SM32ProForSM301vR6 is a S/W that includes various functions related to SM301-EX operation and provides a library that includes API functions for application development when installed. Spectral Products distributes SM301-EX for driving and application development reference. For more information, you can download it together with the User Manual from the homepage.

#### 1-1. Contact us

For technical inquiries related to the spectrometer and S/W, please contact the e-mail address below or call us.

E-mail: [sales@spectralproducts.com](mailto:sales@spectralproducts.com), [support@spectralproducts.com](mailto:support@spectralproducts.com)

Phone: (860) 928-5834

#### 1-2. Homepage

Website: [www.spectralproducts.com](http://www.spectralproducts.com)

Download: <https://www.spectralproducts.com/Downloads>

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

## 2. Revision History

Date	Revision	Description
06/16/17	v.2.12.02	<ul style="list-style-type: none"><li>• Added function related to board setting</li><li>• Per Pixel uniformity function added during dark scan</li><li>• Global skim balancing option added</li></ul>
07/10/19	v.2.12.11	<ul style="list-style-type: none"><li>• Modification related to External Trigger function</li><li>• Error Message Dlg disable</li><li>• Fixed some function errors</li><li>• Library update</li><li>• Added User Manual</li></ul>
11/05/19	v.2.12.12	<ul style="list-style-type: none"><li>• Time Line function bug fix</li><li>• LabVIEW SDK bug fixes</li><li>• Add External Trigger Manual</li><li>• DLL code stabilization</li></ul>
12/05/19	v.2.12.13	<ul style="list-style-type: none"><li>• UI bug fixes</li><li>• DLL bug fixes</li></ul>
02/04/20	v.2.12.14	<ul style="list-style-type: none"><li>• Supplement some features</li></ul>
02/20/20	v.2.12.15	<ul style="list-style-type: none"><li>• Fixed UI information output error</li></ul>
03/16/20	v.2.12.16	<ul style="list-style-type: none"><li>• Bug fix in Record function</li></ul>
06/10/20	v.2.12.17	<ul style="list-style-type: none"><li>• Modification related to program start mode</li></ul>
07/14/20	v.2.12.18	<ul style="list-style-type: none"><li>• DLL Installation bug fix</li></ul>

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

**v2.12.02**

**DATE:** 06/16/2017

**Issue:**

- Detect Bias value setting function of Board
- Added function to apply Per Pixel Uniformity during Dark Scan
- Apply Global Skim option when balancing

**Fixed:**

- Load and apply the last Detect Bias value of the board (in DLL function)
- Added whether to use Shatter
- **Per Pixel Uniformity** applied when using Shutter
- Added whether to apply Global Skim Value set in the Balance work board

**Comments:**

**- \* Per Pixel Uniformity:**

Base line calibration work. Bases CCD data immediately after closing the shutter

Subtract from the line and apply 7000 for offset and x1.5 for gain.

**- Global Skim application option**

Without Global Skim: Do not use Global Skim Value

Without Global Skim: Apply Global Skim Value

Auto Global Skim: Set and apply automatic Global Skim Value

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

**v2.12.11**

**DATE:** 07/10/2019

**Issue:**

- Improved usability of external trigger-related functions
- Eliminate unnecessary error messages when an error occurs
- Fixed spGetWLTable function error
- Board drive Library update
- User Manual added

**Fixed:**

➤ Except Polarity parameter of spReadData\_Extrg function, -99 is returned when Time out

Fix to use with spReadDataEx when using external trigger

- Error Message Disable in Board Drive Library
- When calculating spPolyFit and spPolyCalc, when the number of calibration data points is 3 or less, the order value is corrected.
- ArrayBoardR6\_Lib v1.55 applied
- API Function, Install, User guide Manual added

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

**v2.12.12**

**DATE:** 11/05/2019

**Issue:**

- When using the Time Line function, an error occurs when the setting value of Interval and Integration Time are similar.
- Bug fix in LabVIEW SDK
- External Trigger Manual added
- Stabilization of DLL API Function

**Fixed:**

- Thread synchronization code fix (Time Line function bug cause)
- Fix UI error when working with LabVIEW SDK Balance

Fix not to use other functions in External Mode

- External Trigger function and function usage manual added
- DLL API Function Critical Section added

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

## v2.12.13

**DATE:** 12/05/2019

**Issue:**

- Improved Dialog function related to some settings
- DLL API Function Critical Section bug fixed

**Fixed:**

- When there is no setting change in Setup Dlg, Balance Dlg, maintain the status of Dark, Ref, Balance
- Fixed an infinite waiting condition due to an error in some critical section areas

## v2.12.14

**DATE:** 02/04/2020

**Issue:**

- Improvement of TEC-related functions

**Fixed:**

- Modified to be TEC off at the end of the program

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

## v2.12.15

**DATE:** 02/20/2020

**Issue:**

- Integration Time notation error in some UIs

**Fixed:**

- Fixed integration time notation error in PrintDlg

## v2.12.16

**DATE:** 03/16/2020

**Issue:**

- Program freeze occurs when recording

**Fixed:**

- Thread synchronization code related correction

Stabilize Record Thread code

## v2.12.17

**DATE:** 06/10/2020

**Issue:**

- Program start mode related fixes

**Fixed:**

- Fixed bug in program execution mode without connecting SM301-EX unit

SDF file simulation function only

Apply Wavelength Calibration of SDF file

# Spectral Products

Spectrometers · Spectrophotometers · Color Instruments · Spectrographs · Monochromators

---

111 Highland Drive · Putnam, CT · 06260 · USA  
PHONE (860) 928-5834 · FAX (860) 928-2676  
<http://www.spectralproducts.com>

## v2.12.18

**DATE:** 07/14/2020

**Issue:**

- DLL Installation bug fix

**Fixed:**

- Fixed bug to install a different SPdbUSBABR6.dll file during the installation process