

## DSX Application Software Ver. 3.1.3a

### Release Note

| System Configuration |   |
|----------------------|---|
| OS                   | Microsoft Windows7 Professional 32bit/64bit SP1   |
|                      | Japanese or English   |
| .NET Framework       | 4.5.2   |
| CPU                  | Intel Xeon®E3-1230 Quad-Core3.2GHz or more  |
| RAM                  | 4GB or more   |
| HDD                  | 500G or more ※The capacity to save images, etc. by the DSX application software depends on the free space in HDD. |
| Graphic              | Equivalent to NVIDIA Quadro 600 1GB or more.  |
| Optical Drive        | DVD drive (The offline software can be installed to CD drive.)  |
| Monitor Resolution   | 1920 x 1080   |

## 1. Changes from the previous version

### [ Changes from Ver. 3.1.3 ]

| No | Function                | Description  |
|----|-------------------------|--|
| 1  | Install /<br>Version up | Added the following check function for installation / version up.<br>- The executing user has the administrator privilege, and is a local account.<br>- Combination of environments. (Online / offline, 32 bit OS / 64 bit OS) |

### [ Changes from Ver. 3.1.2 ]

#### 1-1 Following phenomena were corrected.

| No                 | Function                              | Description  |
|--------------------|---------------------------------------|--|
| <b>Live</b>        |                                       |  |
| 1                  | The combination of the objective lens | In DSX510 and DSX510i, it added a combination of the objective lens.<br>Added combination :<br>MPLFLN50XBDP and MPLFLN2.5X<br>LMPLFLN50XBD and MPLFLN1.25X or MPLFLN2.5X   |
| <b>Acquisition</b> |                                       |  |
| 2                  | Acquisition setting                   | Added the function that displays the "Save As" dialog box when the "Acquisition" button is pressed and image can be saved to any location.   |
| 3                  |                                       | Added the function that when after the "Acquisition" button is pressed, live is automatically resumed.   |
| 4                  |                                       | Added the function that if auto-save is enabled, automatic acquisition destination folder and file name is displayed before raveling acquisition is started.   |
| 5                  | Live measurement                      | Added the function that output the results of the live measurement in CSV format.  |
| 6                  |                                       | Added the function that can change the measurement result position of the label.   |
| 7                  | Stitching                             | Added the function that select the maximum number of pixels of the stitching image "10000 × 10000" or "6000 × 6000".<br>* When the stitching image size is more than "6000x6000", it will take a limit for the following functions.<br>If you want to use the following functions should be to change the settings.<br><br>Image correction / Measurements other than Geometric measurement<br>/ Wizard / Save to database / Save Report |
| 8                  | Save image                            | Added the function that selects the size of the Jpeg file.   |

| Measurement and Analysis |                                 |   |
|--------------------------|---------------------------------|---|
| 9                        | Caliper measurement             | Added the function that select the data output method from "All measurement data" or "Statistic"<br>* "Statistic" is the data output method of up to "Ver 2.1.6". |
| 10                       | Annotation (scale)              | Added the function that numerically enter the scale width (Decimal point can be set up to less than 2 digits).  |
| 11                       |                                 | Added the function that select the scale of the display pattern.  |
| Product environment      |                                 |   |
| 12                       | To support newer .NET Framework | Updated to support .NET Framework 4.5.2.  |

### 1-2 Following phenomena were corrected

| No | Function       | Description   |
|----|----------------|---|
| 1  | Live stitching | Fixed a bug that when live stitching window is closed, the moving speed of the stage is not set correctly.        |
| 2  | Measurement    | Fixed a bug that measurement position of the curvature measurement is not displayed correctly.                    |
|    |                | A formula of $\sigma$ of statistics column of the data sheet has been modified from sigma (n) to sigma (n-1).     |
|    |                | A formula of $\sigma$ of statistics column of the data sheet has been modified from sigma 3 (n) to sigma 3 (n-1). |

## 2. Compatibility table of OLYMPUS Stream

When used in combination with OLYMPUS Stream 2.1, please upgrade the DSX application software to 3.1.3/3.1.3a.

When used in combination with "OLYMPUS Stream 1.8 - 1.9.3" and "DSX application software before 3.1.2", after version up to the "DSX application software 3.1.3/3.1.3a", please version up to the "OLYMPUS Stream 1.9.4".

|         |              | OLYMPUS Stream |           |      |     |
|---------|--------------|----------------|-----------|------|-----|
|         |              | 1.7            | 1.8~1.9.3 | 1.94 | 2.1 |
| DSX-BSW | Before 3.1.2 | ✓              | ✓         | ✓    | -   |
|         | 3.1.3/3.1.3a | ✓              | -         | ✓    | ✓   |

## 2. Restrictions of Specifications

### 2-1 Restrictions remaining from the previous version (Ver. 2.1.6)

| No | Function                     | Description  | Countermeasures   |
|----|------------------------------|--|---|
| 1  | Zoom Change                  | If the image acquired with the digital zoom magnification (the status when the [D] icon is displayed on the slider bar for specifying the magnification) is displayed in [vertical shrinking] or [horizontal shrinking] in [dual screen], the position to display the live image is shifted to the upper-left. | If comparing images in the dual screen, do not use the image acquired with the digital zoom magnification.  |
| 2  | Z Movement                   | If Z movement is performed to the Z limit position while setting [Reference Z position] same as [Z limit position], only the message indicating that it reached [Reference Z Position] is displayed, but the message indicating it reached [Z Limit Position] is not displayed.                                | This is only a display issue and there is no functional problem.  |
| 3  | Automatic Stitching          | After completing the automatic stitching, the [Stop] button is not returned to the [Acquisition] button infrequently. If the [Stop] button is pressed during this status, the [Acquisition] button cannot be pressed.  | This problem is solved by following procedures.<br>(1) Close the automatic stitching screen.<br>(2) Display the [Live Stitching] screen.<br>(3) Press the [Acquisition] button. |
| 4  | HDR                          | If the HDR image is acquired while the live display stops, even though the fixed parameters for HDR detail settings is set to OFF, the automatic adjustment process of parameters is not executed.   | Enable the live display before acquiring the image.   |
| 5  | Display of Image Information | If the image acquired by using Ver1.1.5 and enabling HDR (Halation Removal) is opened with the application of this version, HDR=OFF is displayed in the image information display area.  | This is only a display issue, and the opened image contains the information of HDR (Halation Removal) : ON.   |
| 6  | GUI related                  | The top menu of the software (area where [Acquisition], [Measurement] or [Report] buttons are placed at the uppermost area of the screen) is not displayed in some cases.  | Press the Windows key on the keyboard, and click the DSX button on the task bar displayed.  |
| 7  |                              | If [Acquisition], [Measurement] or [Report] screens are changed consecutively, it may take some time   | Wait until the screen changes.  |

|    |                     |   |   |
|----|---------------------|---|---|
|    |                     | to change the screen.   |   |
| 8  |                     | After the Z escape value is entered, the dotted line is displayed vertically.   | This is only a display issue and there is no functional problem.                        |
| 9  |                     | If the image in 3D display is opened while the multi-screen is displayed, the image is not displayed correctly in some cases.   | Move the mouse cursor on the image display area, and then move it slightly.             |
| 10 | GUI related         | If [Acquisition] is selected from [Measurement] in Top Menu very quickly, the screen may not be displayed correctly.  | Select [Acquisition] from [Measurement] in Top Menu again.                              |
| 11 |                     | Immediately after the screen for registering users in Multi Preview is closed by clicking [Cancel], the acquisition screen may not be displayed correctly.  | Click the [Measurement] tab or the [Acquisition] tab to display the screen correctly.   |
| 12 |                     | At re-login, when the message related to the anti-halation unit is displayed, the drawing of the background is not completed.   | The message only appears during drawing the background. There is no functional problem. |
| 13 | Touch Panel         | When moving the stage by instructing on the live image with the touch panel, if the next instruction is made before completing the last stage movement, the message indicating "The last operation may not have been executed." may appear. | After selecting [Image Correction]-[HDR], cancel the selection and operate the stage.   |
| 14 | Observation setting | If the reproduction of the condition to lower the zoom magnification is repeated twice continuously, the control of the entire application will be Disabled.  | Change the objective lens.  |
| 15 | Step Measurement    | If the image is opened in the order of 3D→2D→3D, the menu shows Plane Measurement, but the icon shows Step Measurement.   | Nothing special   |
| 16 | Report              | If the size of the image opened in logo is large, it takes some time to save the report.<br>※ Several minutes for several MB.   | Please wait for a while.  |
| 17 |                     | If the image is zoomed during saving the report, the internal error occurs.   | Close the error message   |

|    |                       |  |   |
|----|-----------------------|--|---|
| 18 | Traveling acquisition | If the [Stop] button is clicked when the traveling acquisition of the first point is completed, the acquired image may not be displayed. | Go to the measurement screen.<br>The acquired image is displayed there. Save it if necessary. |
| 19 | Video acquisition     | After Video acquisition was finished in time out, Live observation and Video acquisition cannot be started.                              | Please restart application.   |