New functions and addendum

- This document contains descriptions of how to set the new functions and their restrictions. It is recommended to read them while referring to the Operating Instructions provided with this product together.
- Depending on the model used, the screens shown in the explanations may differ to the actual camera screens.
- The model number is abbreviated in some descriptions in this manual.

About notations

The following notations are used when describing the functions limited for specified models. The functions without the notations are supported by all models.

\[ \text{X4571L} : \text{WV-X4571L, WV-X4571LM} \]
\[ \text{S4550L} : \text{WV-S4550L, WV-S4550LM} \]
\[ \text{X4171} : \text{WV-X4171} \]
\[ \text{X4170} : \text{WV-X4170} \]
\[ \text{S4150} : \text{WV-S4150} \]

Due to software upgrade, the following functions have been added and changed to this product.

- **Firmware Ver.1.40**

<table>
<thead>
<tr>
<th>No.</th>
<th>Functions</th>
<th>Item (Page)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>“SD memory card password lock” added to “SD memory card security settings”</td>
<td>SD memory card(Basic)</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Addition of “Wide dynamic range” function.</td>
<td>Image(Image adjust)</td>
<td>4</td>
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</tbody>
</table>
1. “SD memory card password lock” added to “SD memory card security settings”

(Operating Instructions Configure the basic settings of the camera [Basic] Configure the settings relating to the SD memory card [SD memory card])

[SD memory card password lock] function added to SD memory card security setting.

[SD memory card password lock]
Configure a password for the SD memory card. When configuring a password, devices other than the camera will be unable to write to or read the SD memory card. If the SD memory card is stolen or lost, the risk of recorded data being leaked can be reduced.

[Set]
When an SD memory card with no configured password is inserted, a password can be configured using the [Set] button.

[Password] / [Retype password]
Enter the password.
Available number of characters: 4 - 16 characters
Unavailable characters: ” &
Default: None (blank)

[Remove]
When an SD memory card with a configured password is inserted, the password can be removed using the [Remove] button.
**[Password]**
Enter the password.

*Available number of characters*: 4 - 16 characters

*Unavailable characters*: " &

**[Change]**
When an SD memory card with a configured password is inserted, the password can be changed using the [Change] button.

**[Old password]**/[**New password**]/[**Retype new password**]
Enter the password.

*Available number of characters*: 4 - 16 characters

*Unavailable characters*: " &

**[Status]**
Display the configuration status of the password lock.

- **Lock**: A password is configured on the SD memory card, and the lock function is enabled.
- **Unlock**: The lock function is disabled.

Also display the password configuration status of SD memory card respectively.

*Password is set.*: The password is configured correctly.

- **Error(Unsupported SD memory card)**: A card that does not support password lock is inserted. Check that an SDHC memory card or SDXC memory card is inserted.
- **Error(Password mismatch)**: The SD memory card cannot be used because the password configured for the SD memory card and the password configured for the camera do not match. Check that the passwords are correct.

**Note**

- The password lock function supports only SDHC memory cards and SDXC memory cards.
- If you will use the SD memory card on a device other than the camera with password lock configured, remove the password using the password lock remove button before removing the SD memory card.
  The password cannot be removed on devices (such as PCs) other than the camera.
- When the “Status” of “SD memory card password lock” is “Lock”, if an SD memory card with no configured password is inserted, the password is automatically configured to the SD memory card.

**IMPORTANT**

- If you forget the configured password, the password cannot be removed. The SD memory card with the configured password will become unusable, so manage passwords with great care.
- If you forget the configured password and you want to replace the SD memory card with a new one, perform the following step to set the “Status” of “SD memory card password lock” to “Unlock” before replacing the SD memory card.
  - Initialize settings from the “Maintenance” page.
2. Addition of “Wide dynamic range” function.

(Operating Instructions Configure the settings relating to images and audio [Image/Audio]
Configure the settings relating to image quality (“Image adjust” setup menu)
Addition of Wide dynamic range function, and combination of Wide dynamic range function and Super Dynamic function to become [Dynamic range mode].

[Dynamic range mode]
Select “On(Wide dynamic range)”, “On(Super Dynamic)”, or “Off” to determine whether or not to activate Wide dynamic range function or Super Dynamic function.

On(Wide dynamic range): Activates Wide dynamic range function.
Wide dynamic range function corrects the brightness in images with contrast, and enables natural images to be checked.
On(Super Dynamic): Activates Super Dynamic function.
When there is contrast in images, this setting enables more faithful images to be created than when “On(Wide dynamic range)” is used.
For more information about Super Dynamic function, refer to the Operating Instructions.
Off: Stops the Super Dynamic function or Wide dynamic range function.
Default: Off

Note
• When “On(Super Dynamic)” is selected for “Dynamic range mode”, the frame rate is restricted to a maximum of 15fps.
• When “On(Super Dynamic)” is selected for “Dynamic range mode”, the following phenomenon may occur. Select “On(Wide dynamic range)” or “Off” in accordance with the usage environment.
  - When the visibility with backlight becomes worse depending on the brightness conditions of the surrounding area.
  - When there are afterimages in images.
• When “On(Super Dynamic)” or “On(Wide dynamic range)” is selected for “Dynamic range mode”, the following phenomenon may occur depending on the lighting conditions. Select “Off” in accordance with the usage environment.
  - When flickering appears or the color changes on the screen.
  - When noise appears in the brighter area on the screen.

Due to Addition of “Dynamic range mode” function, the following descriptions have been changed.

2.5.5.1 Configure the settings relating to image quality (“Image adjust” setup menu) – [BLC/ HLC]

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select from the following. When “On” is selected for “Super Dynamic(SD)”, or when “On” is selected for “Intelligent Auto”, this setting is not available.</td>
<td>Select from the following. When “On(Wide dynamic range)” or “On(Super Dynamic)” is selected for “Dynamic range mode”, or when “On” is selected for “Intelligent Auto”, this setting is not available.</td>
</tr>
</tbody>
</table>

2.5.5.1 Configure the settings relating to image quality (“Image adjust” setup menu) – [Mask area]

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>When mask area is set, the selected area is masked and you can adjust brightness. When “On” is selected for “Super Dynamic(SD)”, this setting is not available.</td>
<td>When mask area is set, the selected area is masked and you can adjust brightness. When “On(Wide dynamic range)” or “On(Super Dynamic)” is selected for “Dynamic range mode”, this setting is not available.</td>
</tr>
</tbody>
</table>

2.5.5.1 Configure the settings relating to image quality (“Image adjust” setup menu) – Day & Night(IR) – [Level]

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the threshold illuminance level (brightness) to switch between the color mode and the black &amp; white mode. The descriptions about the following threshold illuminance levels are given when “Off” is selected for “Super Dynamic(SD)”.</td>
<td>Select the threshold illuminance level (brightness) to switch between the color mode and the black &amp; white mode. The descriptions about the following threshold illuminance levels are given when “Off” is selected for “Dynamic range mode”.</td>
</tr>
</tbody>
</table>

2.5.5.2 Set mask areas – [Mask area]

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>This explains how to mask an area of the image and adjust brightness. When setting the mask area, set “Super Dynamic(SD)” to “Off”.</td>
<td>This explains how to mask an area of the image and adjust brightness. When setting the mask area, set “Dynamic range mode” to “Off”.</td>
</tr>
<tr>
<td>2. Click “+” on the left of “Super Dynamic(SD)” to display the detailed SD menu.</td>
<td>2. Click “+” on the left of “Dynamic range mode” to display the detailed “Dynamic range mode” menu.</td>
</tr>
</tbody>
</table>