April, 2020

i-PRO EXTREME Series Cameras
Additional Information regarding Image Quality Improvements on V4.30 and later

■ Introduction

This document provides the additional information regarding the image quality improvements applied to the network camera firmware upgrade to version 4.30.
Please refer to the description from the next page for changing the settings related to the image quality from the setting applied in V4.30 depending on your environment.

■ Applicable models

WV-S1111/S1112/S1131/S1132(H)/S1511LN/S1531LN/S1531LNS/S2110/S2130/
S2111L/S2131(L)/S2211L/S2231L/S2511LN/S2531LN/S1531LTN/S2531LTN/

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(1) Image quality improvements on V4.30:

1） Motion blur in low light level: Reduced the image lag to improve the visibility of moving objects. (Image sample 1)
2） Resolution: Improved to be more natural resolution and outlines (Image sample 2)
3） Blocked up shadows in dark areas: Improved to illuminate the dark areas

Image quality settings: Improvements in image quality / changes on the default setting

Item	Improvements in Image quality	Change on the default setting
Maximum gain	No	Yes(11→7)
Noise reduction	Yes(weakened)	No
Aperture	Yes(weakened)	No

***The setting values will not be changed with upgrading.**

This upgrade changes the image quality.
Refer to the below 1, 2 or 3 depending on your environment if you would like to set the image quality to more recommended settings or feel uncomfortable with the image quality after upgrading. (Requires administrator rights)

1． Users with default setting of “Maximum gain/ Aperture/ Noise reduction” in the image quality setting. (p.4)
2． Users who have changed any of the image quality settings of “Maximum gain/ Aperture/ Noise reduction” (p.6)
3． Users who do NOT want to apply the image quality improvement by the version upgrade (Users who want to keep the original image quality.) (p.7)

Image sample 1 (Improvement on “Motion blur in low light level”)

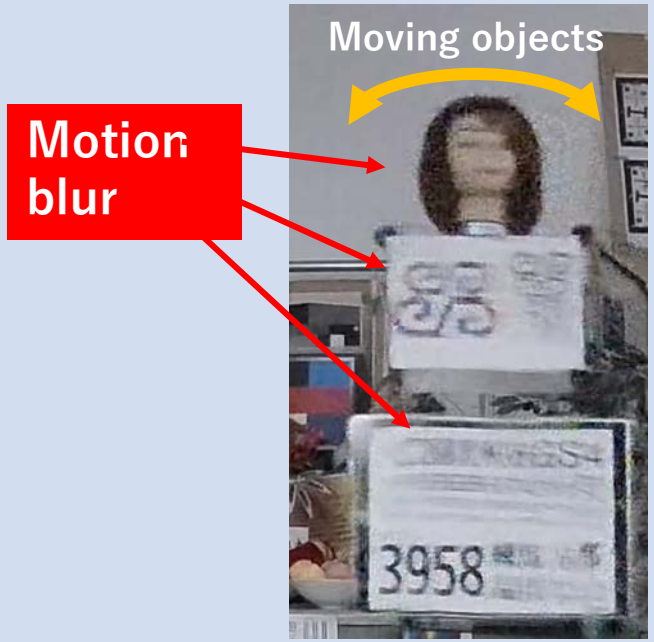
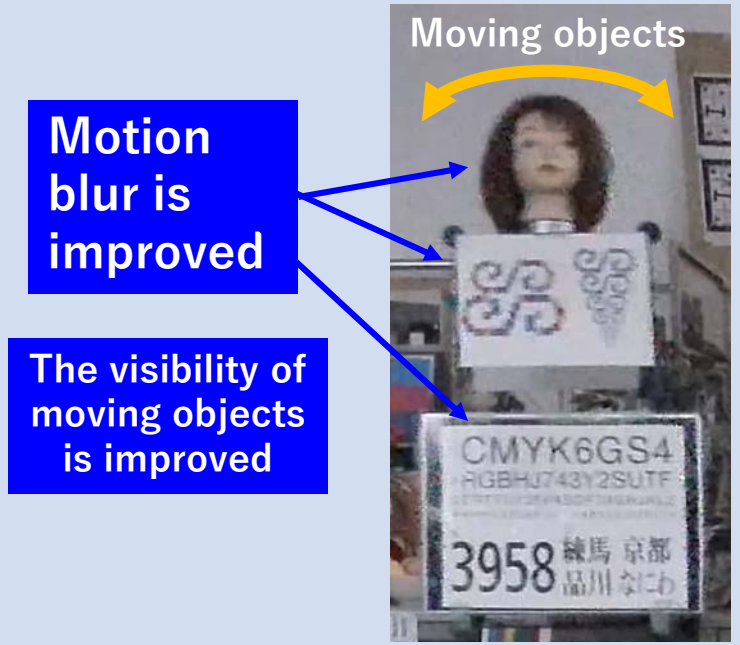
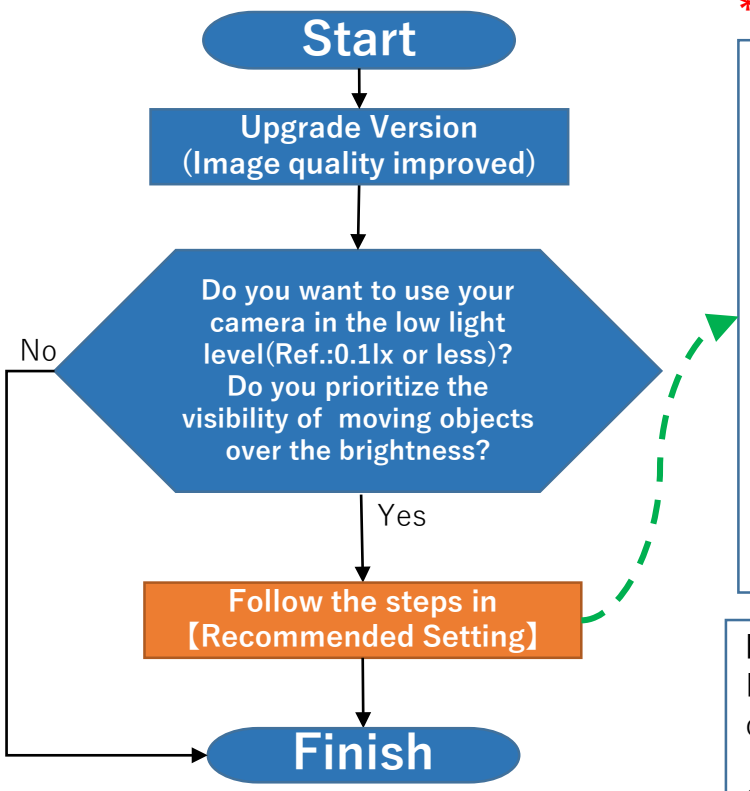
Improvement	Before	After
Motion blur in low light level (Under the environment of 0.3lx)		

Image sample 2 (Improvement on resolution)

Improvement	Before	After
Resolution (Under the environment of 100lx)	 Edges of characters are emphasized. Unnatural white frames on the color patches	 Edges of characters look natural Color patches look natural

1. Users with default setting of “Maximum gain/ Aperture/ Noise reduction” in the image quality setting.



***The below describes with the IP address “192.168.0.10” as a sample.**

【Recommended Setting】 How to set to “Recommended setting” after upgrading

We recommend to change the setting value in “Maximum gain” to 7 when using the camera in the low light level (Reference: 0.1lx or less).

→Refer to the below 【A】 or 【B】.

【A】 In the “Image adjust” setup> “Maximum gain”, click the [Reset] (the setting value changes from 11 to 7)

【B】 Enter “http://192.168.0.10/cgi-bin/image_adjust?agc=7” in the address bar and press “Enter”.

Refer to the next page for the detailed setting.

With the recommended setting of ”Maximum gain=7, the brightness will be dark in the low light level (ref.: 0.1Lx or less) but the visibility of moving objects will be improved (reduces noise and motion blur).
* Please do NOT change the setting If you prioritize brightness.

How to switch back to the image quality in V4.25 or earlier

Follow the steps below, and then refer to **3. Blocked up shadows in dark areas: Improved to illuminate the dark areas** on page 5.

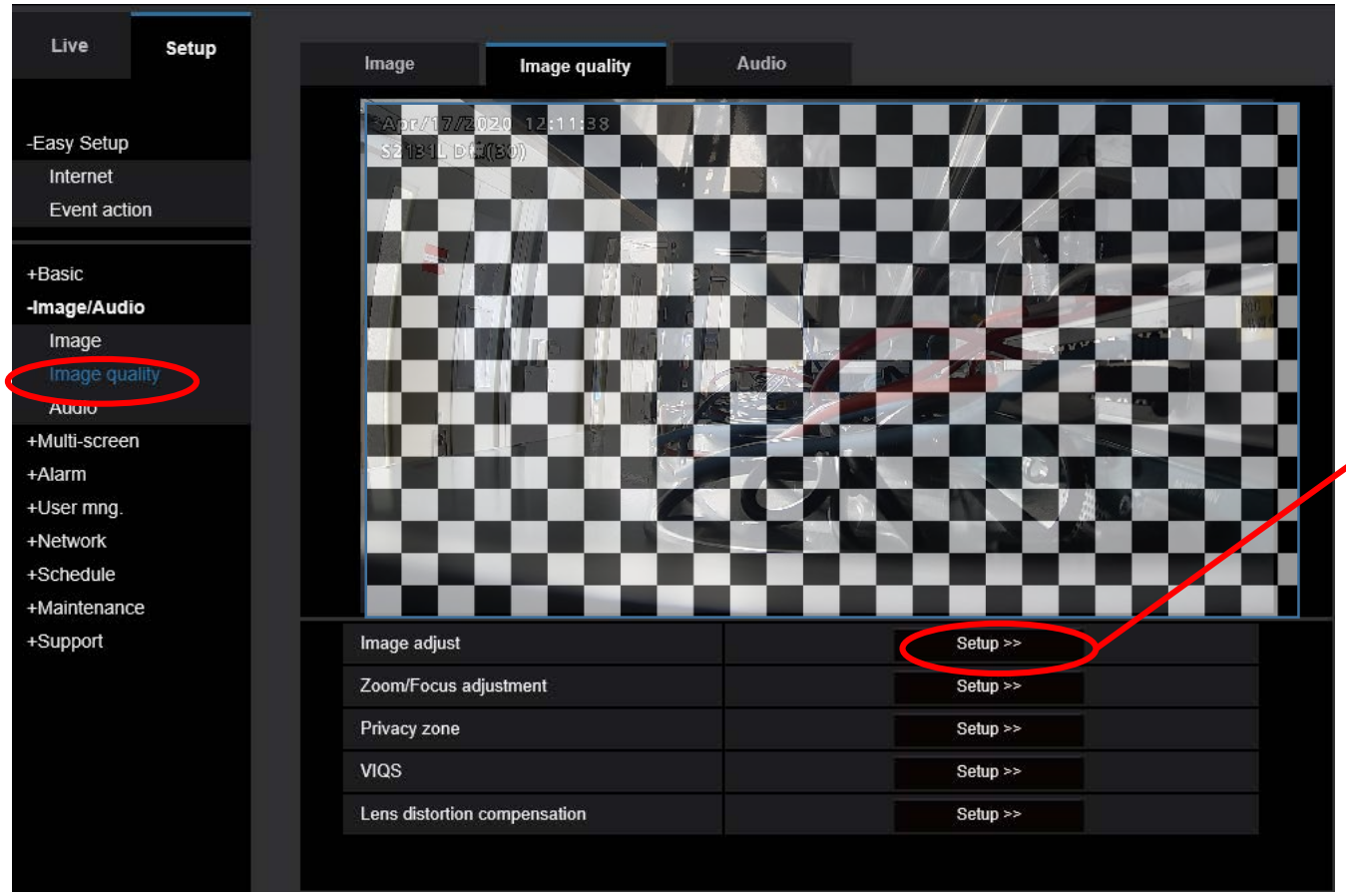
Set the value in the “Image adjust” setup> “Maximum gain” to 11 following 【A】 or 【B】.

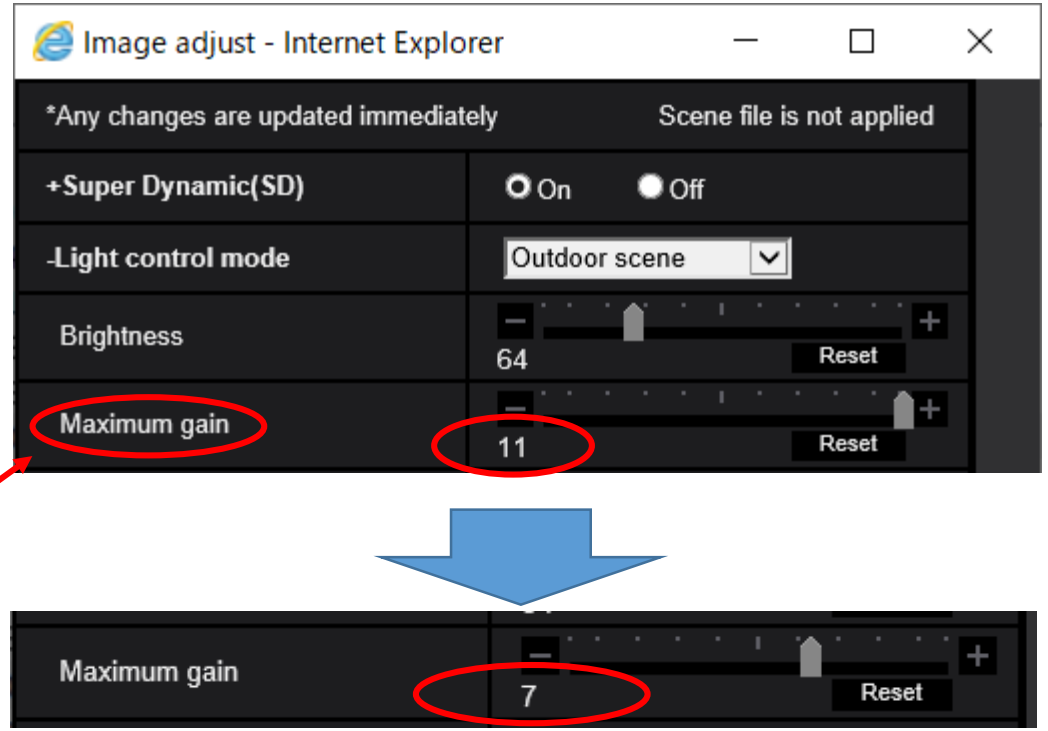
【A】 In the “Image adjust” setup> “Maximum gain”, set the value to 11

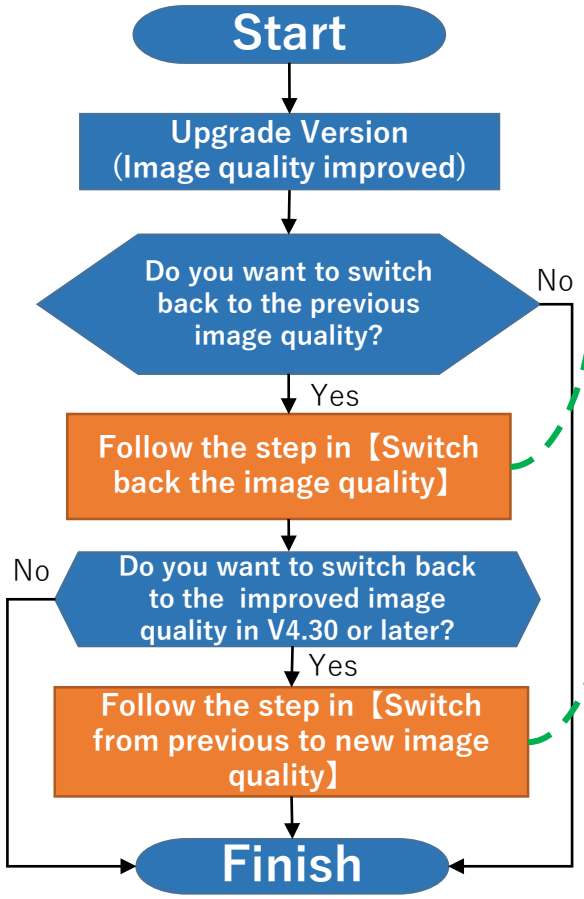
【B】 Enter http://192.168.0.10/cgi-bin/image_adjust?agc=11” in the address bar and press “Enter”.***1**

*1 Please change the IP address (192.168.0.10) in the URL depending on your camera in use.
Bulk change is possible using i-PRO Configuration Tool
i-PRO Configuration Tool: https://security.panasonic.com/training_support/design_tools/)

1. Users with default setting of “Maximum gain/ Aperture/ Noise reduction” in the image quality setting.







***The below describes with the IP address “192.168.0.10” as a sample.**

【Switch back the image quality】 How to switch back to the image quality in V4.25 or earlier

Follow the step below.

●Switch back to the previous image quality

Enter “http://192.168.0.10/cgi-bin/image_profile?type=1” in the address bar and press “Enter”.***1**

【Switch from previous to new image quality】How to switch to the new image quality after once switching to the previous image quality

Follow the step below.

●Switch to the new image quality

Enter “ http://192.168.0.10/cgi-bin/image_profile?type=0” in the address bar and press “Enter”.***1**

*1 Please change the IP address (192.168.0.10) in the URL depending on your camera in use.
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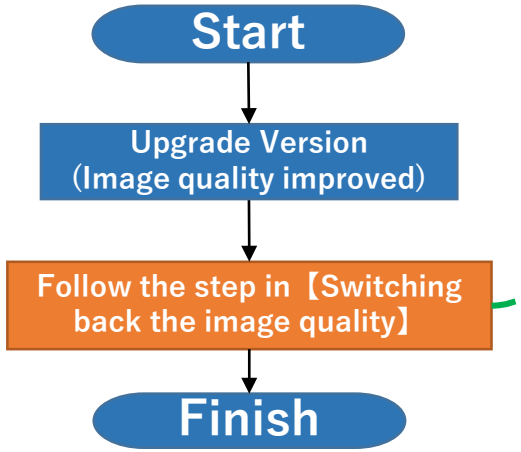

***The below describes with the IP address “192.168.0.10” as a sample.**

【Switch back to the previous image quality】 How to switch back to the image quality in V4.25 or earlier after upgrading

Follow the steps below.

●Switch back to the previous image quality

Enter “http://192.168.0.10/cgi-bin/image_profile?type=1” in the address bar and press “Enter ”.***1**

Note: Refer to the below to switch to the new image quality after switching back to the previous image quality.

Enter “http://192.168.0.10/cgi-bin/image_profile?type=0 ” in the address bar and press “Enter ”.***1**

*1 Please change the IP address (192.168.0.10) in the URL depending on your camera in use.
Bulk change is possible using i-PRO Configuration Tool
i-PRO Configuration Tool: https://security.panasonic.com/training_support/design_tools/)