

Image Turns Too Bright in Day

1. Product Model and Firmware Version

DH-IPC-HFW5241TP-SE-0360B

DH_IPC-HX5XXXolt_MultiLang_PN_Stream3_V2.840.000000.13.R.220110

2. Description of the Problem



After a time connected, the image start turning brighter. A restart will fix the issue. But next day the problem will recur.

3. Problem Analysis and Troubleshooting

The luminance of the image is mainly influenced by the shutter speed, gain, aperture, and picture options.

- Shutter speed affects how long the sensor takes to receive the light. Faster shutter speeds will result in a decrease in picture brightness.
- Aperture affects the number of photons received by the sensor per unit of time, the smaller the aperture the less light passes through per unit of time.
- Gain is to adjust the sensor's processing of the received light, increasing the value of the gain will result in an increase in the brightness of the image, but at the same time will bring more noise.

Since this device does not support the adjustment of the aperture, the problem should not be caused by the aperture. between the remaining possible factors, the settings for the gain and picture options have not been changed, so the problem is most likely related to the shutter.

4. Solution and Conclusion

Check the shutter setting of the device and found that IPC was set a fixed shutter speed. This speed is reasonable at night, but the value is obviously too slow for

daytime, and the gradual increase in sunlight brightness at sunrise combined to cause the problem.