
Surveon Smart Low Light

Application Notes

Version <1.0>



Technical Support Team

Preface

In the IP camera market, the mid-range to high-end vendors usually chooses good quality lens, sensor and SOC, so the video quality from those camera vendors are good in most of scenarios. But for the low light environment, video quality is highly related to the lens and sensor and a good low light sensor will cost highly price. So how to deliver customer a good low light video quality with cost-effective solution becomes a hot topic.

Thanks to the Surveon independent ISP, Surveon can provide a special low light video enhancement technique called **Smart Low Light**. This technique introduces an independent shutter speed control module to slow down the shutter speed in the very low light environment. It can bring the colorful video which can help customer to identify the object.

In general scenario, the shutter speed will be managed by auto shutter speed or manual shutter speed setting. But if the camera light sensor detects the light degree in low LUX condition, it will utilize the special shutter speed module to get good low light video image.

Application

The **Smart Low Light** is suitable for the wide-covered surveillance area. Customer can check below application.

- City Surveillance
- Parking lots
- Harbor
- Airport
- Border gate
- Square

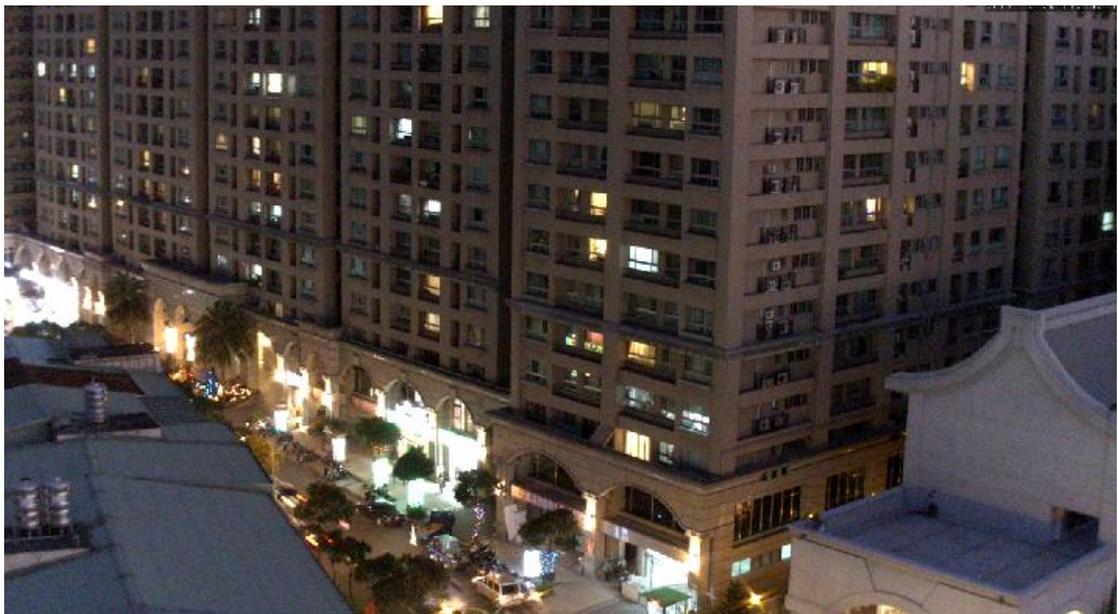
Test Scenario

Through below two images show **Smart Low Light** off and on effects. As you can see pic 1, before the **Smart Low Light** was turned on, due to the low LUX so it shows dark image which hard to recognize target objects. But after enabling the **Smart Low Light**, you can see the pic 2 the image become much brightness in the same LUX degree.

Pic 1: Before enabling **Smart Low Light**



Pic 2: After enabling **Smart Low Light**



Besides, this Smart Low Light provide two options, user can select 2x or 4x to determine the slow shutter speed level.

Summary

In overall, user can utilize the **Smart Low Light** feature to get good video quality image under low light environment within a cost-effective solution.