

## Applies To

- IQeye 3xx family

## Summary

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**Issue:** Lights in parking lot are in the image, not completely shrouded and are bright enough to affect exposure so that the remainder of the parking lot is too dark.

**Challenges:** Improve image in rest of parking lot.

## Suggestions

**Note:** You may need to try all of these to get an idea which works best in your situation. These are listed in order of preference.

1. Crop the image (using the camera's **crop** page) to eliminate the lights from the view entirely.
2. Set the exposure window so that the offending light(s) are NOT part of the exposure window.

If this exposure window would be different at night then during the day, consider using a cron script to change the exposure window at a specific time of day. See below.

3. Change gain style to "Dark Detect". (for optional night/day cycle, see cron script below)
4. Lower the contrast. (for optional night/day cycle, see cron script below)

## Cron Script

1. Using the camera's **window** page, set the exposure window where you want it during the day. Record the exposure window top left and dimension numbers.
2. Now set the exposure window where you want it during the night. Record the exposure window top left and dimension numbers.
3. In the sample script below, we have used the shorthand "SE IM GAI WI" instead of "SET IMAGE GAIN WINDOW"

### Sample cron script.

```
# CRON Script to change gain window during the night
# to avoid lights in parking lot

# 5:30am, set exposure window for daytime (use entire image)
30 5 * * * SE IM GAI WIN MAX
# To return to average exposure style
# 30 5 * * * SET IMAGE GAIN STYLE AVERAGE
# To return contrast
# 30 5 * * * SET IMAGE GAMMA .45

# 6:45pm, set exposure window for evening (bottom 2/3rd if image)
45 18 * * * SE IM GAI WIN LEFT 0;SE IM GAI WIN TOP 140;SE IM GAI
WIN RAWW 1280;SE IM GAI WIN RAWH 684
# To change to dark detect
# 45 18 * * * SET IMAGE GAIN STYLE DARKDETECT
# To set contrast
# 45 18 * * * SET IMAGE GAMMA .2
```

Some of the lines in the above script are 'commented out'. Remove the “#” symbol at the beginning of the line to make the line active.

Using a text editor, create and save the cron script. **Important:** make sure this file is saved as text only.

Upload the cron script into the `/flash` directory of the camera using FTP.

See TechTip - *FTP code to IQeye camera* for detailed instructions on saving and uploading a cron script.

### More Information

- TechTip - FTP code to IQeye camera
- Tech-Tip - Using cron to control FTP times
- Tech-Tip - FTP to a second server every 10 minutes
- TechTip - Manually set image parameters
- IQEYE Reference Manual - FTP, Scripts & E-mail section.