

## Vertical Image Distortion on network cameras using the MOS Sensor

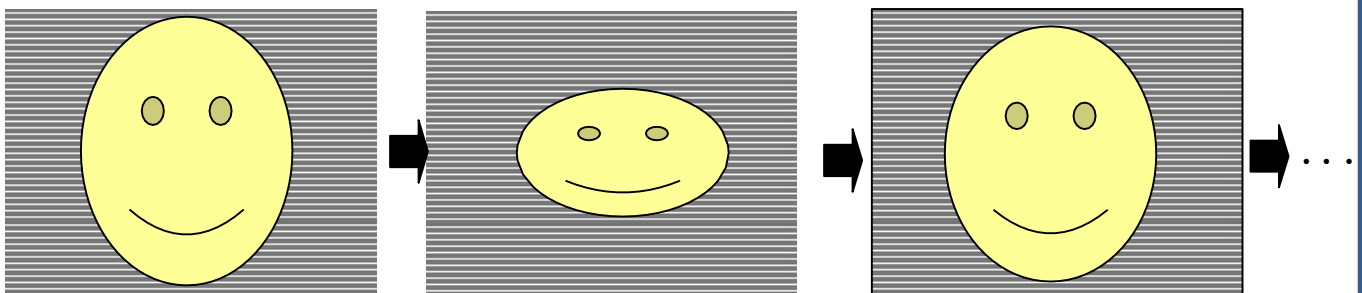
On a network camera that uses a MOS sensor (including a CMOS sensor) as the image sensor, the image may be distorted (stretched) in the vertical direction if a certain vibration (\*) is given to the camera.

\*Certain vibration: vertical small vibration (wobble)

### ■ Phenomenon of Distortion

The subject is distorted by applying vibration to the camera under the influence of a method (rolling shutter) that reads out signals for each scanning line (line) unique to the MOS sensor. This is a phenomenon that commonly occurs with cameras equipped with MOS sensors and is NOT a malfunction.

The following distortion images are extreme images for understanding the phenomenon and are different from the actual images.



It looks stretched.

It looks shrunk.

It looks stretched.

[Click here: refer to its sample video](#)

### ■ Countermeasures

Depending on the environment used, it may be caused by the influence of wind due to the pole installation, etc., or the influence of vibration of large heavy equipment.

**The cause of the vibration can be eliminated by removing it or relocating it to a place without vibration.**

By increasing the frame rate or using the shutter, the distortion of the image changes into slight shaking but it is NOT a solution of the problem.