

Design of Foscam Webcam Firmware

UML for Embedded Systems

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1 Assumptions

- **LightSensor_value_rate:** the light sensor provides a valid data once per second
- **Camera_frame_rate:** the camera provides a valid frame every 1/25 sec (40 ms)
- **Request_notification:** each incoming ethernet request is preceeded by a request notification
- **QR_configuration:** the QR code is the serial number of the camera. During configuration, the serial read by the smartphone is compared with the internal serial number. If equal, then the communication is configured
- **Recording_video:** If the camera has been configured, it always records video and checks for motion objects.