ABOUT IRIS

IRIS is firmware functional and secure for IP cameras that works in any browser, including mobile, without installing additional plugins or making special settings.

Security - The firmware is based on cryptographic algorithms for video transmission and compliance with modern security requirements for working with an IP camera.

Any browser support - You can work with the firmware through any modern browser, including mobile. You no longer need to use Internet Explorer with pre-installed plugins to configure your IP camera.

Maximum connections - Unlike conventional firmware, where 2-3 clients can connect to the IP camera at the same time, our firmware allows you to distribute video from cameras to as many clients as the Ethernet port on the camera allows.
Agent included - Inside the IRIS firmware, Flussonic Agent is already pre-installed, which allows you to make the camera a Plug&Play device and connect it to a remote Flussonic Watcher server without static ip and port forwarding.

Working on different chipsets - IRIS firmware can be ported to any modern cameras based on Hisilicon, Mstar, XM chipsets, etc.

QR code recognition - In the case of using the IRIS firmware on home WiFi cameras, the firmware can recognize QR codes for connecting to the Flussonic Watcher server and the client’s WiFi network.
HARDWARE REQUIREMENTS

- **Chip**: HiSilicon 3518E, HiSilicon 3516A, HiSilicon 3519A or equivalent with characteristics not less than CPU 600MHz, RAM 128 mb
- **Sensor**: Sony IMX178, Sony IMX323 or equivalent with a resolution of at least 720p
  - At least 8MB flash memory
- **Linux OS** as a camera operating system
- **WiFi module** (802.11b, 802.11g, 802.11n)
- **Hardware motion detection** in the video stream
- **IR illumination** with a long wavelength of at least 850 nm to 10 m
- **Horizontal viewing angle** of at least 90 degrees
- **Sound dynamics**
- **Microphone**
- **MicroUSB** - 5V power supply
- **MicroSD** cards slot
APPEARANCE REQUIREMENTS

Indoor use

Installation on a horizontal surface using a standard bracket

Installation on a vertical surface with using a standard bracket

Adjusting the angle of inclination and rotation of the camera when installed on horizontal and vertical surfaces
SDK REQUIREMENTS

SDK to the chip to create firmware on the camera:
- Compiler to core architecture on camera
- Library for access to hardware with header files for camera software and documentation
- Kernel drivers for camera hardware
- Utilities with documentation on setting up camera hardware subsystems

The SDK should provide an API to the following camera functionality:
- Setting up a video capture subsystem
- Receiving video frames compressed in h264
- Motion detection
- Network setup and operation (wifi, ethernet)
- Control of a beeper, speaker, microphone
WEB INTERFACE