



## DATASHEET

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### Hamedal Falcon Intelligent Camera

Hamedal was born with minimalist concept to fix hardware limitations faced with video conferencing SaaS users. We are on a mission to equip conference rooms with the best audio & video hardware that clicks with the best video conferencing SaaS. We believe that every business should have access to great, flexible new technology for enterprise connectivity and we're on a mission to make it happen.

### Extra wide-angle lens to see everyone in the room

With custom-designed 160 degree lens, everyone can be seen in the meeting room, without using PTZ.

### Tiny yet powerful with on Edge AI

With such a small form factor, actual AI algorithm is implemented on the chip to enable human and face tracking with recent CNN networks. AI algorithm is tuned on thousands of hours of actual annotated conference data to achieve near 100% precision at 100% recall.

### Structure design to guarantee Reliability

We spend lots of time on structural design and manufacturing to guarantee that Falcon is stable. The heat from main chip is well released with metal structure to make sure Falcon is reliable enough to sustain 24/7 usage.

### Ethical AI for Social Responsibility

We are strong believer that AI should be used on the edge and no user data shall be published to the cloud. Falcon is designed to be a USB accessory so that no data will be published to the cloud. AI should be used to help people with better communication tools rather than a way to collect data. With this in mind, Falcon is designed as it is now.

### Smarter Conference Experiences and Smarter Conference Rooms

With auto-zooming, Falcon will zoom onto the group of people in the conference room. Enterprise IT can make usage of our API to detect how many people are actually using the conference room.

## Studio Quality Audio with Our Microphone Array

With our 4-element microphone array and proprietary beamforming algorithm, Falcon is more than a camera but a recording device to record studio quality audio.

## Hamedal Dolphin specifications

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### Size

- 4.0cm \* 3.7cm \* 7.2cm

### Weight

- 95g

### Connection Interface

- USB 2.0

### Features

- 160-degree wide angle
- Auto-grouping
- 3D NR
- Microphone array recording
- 2688 x 1944p

### Camera Spec

- f/1.8 aperture
- 2K sensor
- Vertical FOV 100
- Diagonal FOV 160
- Automatic white balance and exposure
- Fixed focus

### Audio Spec

- 4-element beamforming microphone array

### Input/Output

- USB type-c for data and power

### Compliance

- FCC
- CE
- ROHS

### Imaging Features

- Skin tone adaptation
- Wide dynamic range
- Lens distortion correction
- Anti-flickering
- Real-time scaling and dewarping

### Video Spec

- HD 1080p@30fps
- Quad-HD 1944p@30fps
- 16:9 aspect ratio
- Lossless digital PTZ
- UVC 1.1/1.5 compatible
- MJPEG and H264 over USB 2.0

### System requirement

- PC or Mac with USB connection
- Android phone with USB OTG

### Color

- Space gray
- Black

### Mounting Option

- Tripod Mount
- Mounting Hinge

### Structure

- Aluminium construction

### Warranty

- 12 months