

iCAT Face Detection

Licensing

- Send the customer key file **FaceDetectorCustomerKey.c2v** (available on the Observer Customizer page) to Netavis.
- Upload the license file received from Netavis via the Observer Customizer page.
- Note: Activated licenses are backed up. Hardware modifications of the server might require a renewal of the license.

Setup considerations

- The camera should be mounted level with faces and provide a frontal view of the faces.
- The video stream should have at least a 720p resolution and 15 fps.
- Avoid backlight as much as possible as it reduces detection accuracy.
- Cameras with good low light behavior are ideal.
- The minimal detectable face is approximately 30 x 30 pixels. For high age and gender detection accuracy the recommended distance between the eyes is at least 60 pixels.

Setting up face detection only or age and gender detection

- Choose a camera, right-click in the **Video Analysis (iCAT)** tab, and select **Add new definition**.
- Choose **Face detection** in the **Type** dropdown menu and enter an **Identifier** for the region.
- Define the region where face detection will operate on the small camera view in the top-right corner.
- Check or uncheck the **Age and gender detection** and **Display age groups** checkboxes depending on the requirements.
- Optionally, it is possible to define a **Minimal face size** and modify the default **Maximum yaw angle (degrees)**, **Generate face report after (msec)**, and **Minimum detection length** options.

Configuring events

- A face detection definition generates events by default and custom event triggers can be used to add additional flexibility and constraints (e.g. for digital signage applications).
- Event generation provides different events depending on whether face detection only or age and gender detection are in use.

Additional resources

- White Paper: Face Detection with iCAT
- Netavis Observer User Manual

