

TABLE OF SAMPLE PHOTOS

SAMPLE PHOTO

High-quality photos are the basis for perfect image reproduction and the prerequisite for application of facial biometrics in ID documents.

This table of sample photos is to be used for determining the qualitative features that ensure the suitability of a given photo for the use foreseen in ID documents. It is absolutely necessary that the requirements described here are met because otherwise, biometric recognition of the applicant and perfect reproduction of the photo in the document cannot be guaranteed.

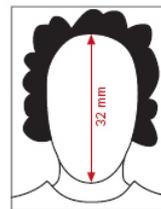
The passport applicant must generally be photographed without any head covering. The passport authorities can make exceptions, especially based on plausible religious grounds.

According to passport regulations, no parts of uniforms may be displayed.

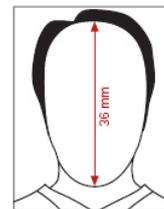
Sample Photo



Minimum face height: 32 mm



Maximum face height: 36 mm



FORMAT

The photo must clearly show the facial features of the person in question from the bottom of the chin to the hairline as well as the left and right sides of the face. The face height must take up 70%-80% of the photo height. This corresponds to a height of 32-36 mm. For voluminous hair, the head (including hair) must be completely shown without reducing the size of the face if possible. The face height must not be less than 32 mm. The face must be positioned at the center of the photo.



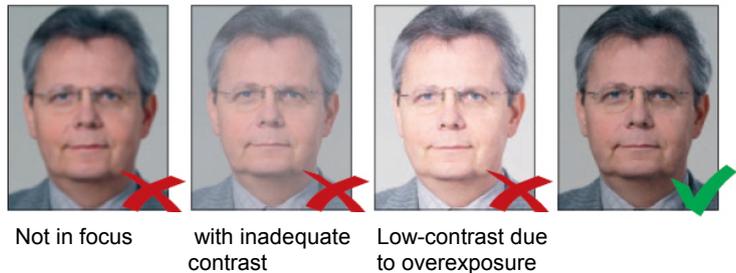
Too big

Too small

not central

SHARPNESS AND CONTRAST

All areas of the face must be shown clearly, sharply, and in high contrast.



Not in focus

with inadequate contrast

Low-contrast due to overexposure

LIGHTING

The face must be lit evenly. Reflections and shadows in the face and red eyes must be avoided.



Too dark

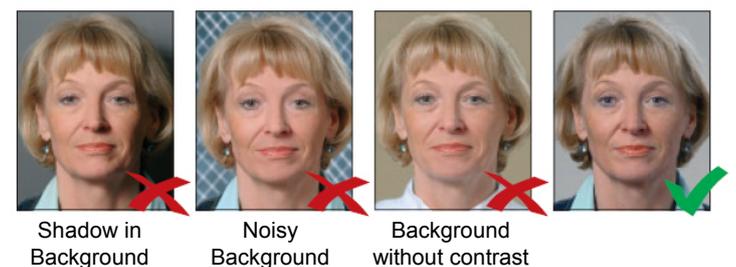
With reflection in face

shadowy

BACKGROUND

The background must be light and in one color (ideally neutral gray) and provide a contrast to the face and the hair. For light hair, a medium gray background is appropriate; for dark hair, a light gray background is suitable. The background must not be patterned.

The photo must only show the person to be photographed (no other people or objects can be in the picture). The background must not contain shadows.



Shadow in Background

Noisy Background

Background without contrast

PHOTO QUALITY

The photo (especially when a digital camera is used to take the picture) should be on high-quality paper with a print resolution of at least 600 dpi.

The photo must be color-neutral and reproduce natural skin tones.

The photo must not have any folds or dirt on it.



Tinted photo

Folds and ink spots in photo

Pixelated Photo

HEAD POSITION AND FACIAL EXPRESSION

The person must not be photographed with a tilted or turned head (i.e., not shown in front view).

The person must be looking straight into the camera with a neutral facial expression and a closed mouth.



Mouth too wide open No front view

Head tilted

EYES AND DIRECTION OF EYES

The person in the photo must be looking directly into the camera.

The eyes must be open and clearly visible and must not be covered by hair or glasses frames.



Eyes closed

Hair in face

Eyes directed to side

EYEGLASS WEARERS

The eyes must be clear and clearly recognizable (reflections on the lenses, tinted lenses, and sunglasses are not permitted).

The edges of the lenses or the frames must not cover the eyes.



Eyeglass frame covering eyes

Lenses too dark

Reflections

HEAD COVERING

Head coverings are generally not allowed. Exceptions are permitted particularly for religious reasons. In this case, the area of the face from the lower edge of the chin to the forehead must be recognizable.

There must be no shadows on the face



With hat

Face covered

Shadows on face