

What Does It Measure?

The Visiopor® PP 34N camera uses a specific **UV-light** to visualize the **fluorescing acne lesions** of an area of 6.4 x 8 mm. The orange-red fluorescence indicates the presence of **Propionibacterium acnes** within clinically non-evident (follicular impactions and microcomedones) and clinically evident (comedones, papules and pustules) lesions.

Acne is a common disorder of the pilosebaceous follicles with a multifactorial pathogenesis. It typically begins in adolescence when androgen hormones stimulate the production of sebum and proliferation of follicular epidermis. The openings of hair follicles become **clogged with oil secretion and corneocytes**. In consequence initially invisible lesions (microcomedones) and then clinically evident comedones develop. Microcomedones and

comedones are further colonized by *P. acnes* bacteria which promote inflamed **acne lesions** (papules and pustules) through the production of proinflammatory mediators, free fatty acids and porphyrins.

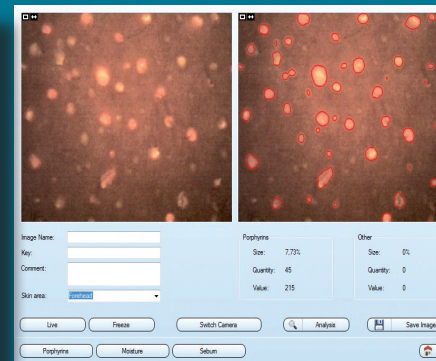
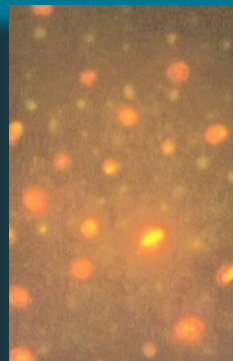
The **presence of porphyrins** can be demonstrated by orange-red fluorescence in the follicle openings by examining the skin under appropriate UV-A light. The intensity of follicular fluorescence and the extent of facial involvement are proportional to the population density of *P. acnes* and porphyrin content at the skin surface.

An improvement of acne is accompanied by significant reduction of the porphyrin concentration and the number of *P. acnes*, respectively.

Advantages & Fields of Application

There are numerous applications in cosmetology, especially in the field of skin impurities.

- Detection of **early invisible lesions** and visualization of advanced small acne lesions in the esthetic field.
- **Efficacy testing** of anti-bacterial products and drugs against *P. acnes*.
- Determination of the comedogenic and **comedolytic activity** of topically applied products.
- **Non-invasive**, easy to use and economic.
- Comfortable software for the evaluation of the **number and size** of the fluorescent spots.
- Possibility of distinguishing between the red-orange spots (**porphyrins**) and the yellow-greenish spots (**others**).



Technical Data

Dimensions: approx. 12 x 5.5 x 5.5 cm; Cable length 1.5 m; Illumination: 16 UVA- LEDs, 375...385 nm;
 Measurement area: 6.4 x 8 mm; Resolution: 1280 x 1024; Camera button to freeze the image
 Interface/Power supply: USB 2.0, type A connector;
 Measurement principle: fluorescence
 Computer: Windows® 10/11, performance must meet system requirements, USB 2.0; 3.0
 Technical changes may be made without prior notice.



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