stomdevice

smartCam 4K Reference Guide

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The smartCam 4K autofocus camera is designed for overhead light use and works best with the following installation and use:

Installation

Place the adhesive slider clip as close to the centre of the overhead light as possible so the light and camera focus on the same treatment location.



Installation Tips:
Do not install on halogen lamps or surfaces that feel hot to the touch. The adhesive may not hold.



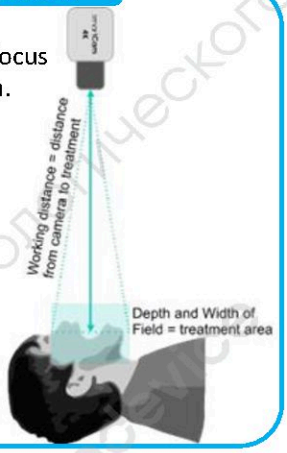
Do not install on loupes, headbands or a shaky surface. Autofocus requires a steady mount.

Important Distances

The pre-set working distance for autofocus is between 50-120cm from the camera.

The depth of field (DOF) is the height of the treatment area and:

- decreases when the camera is closer to the treatment area.
- increases as the camera is further from the treatment area.



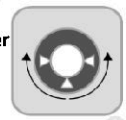
Set Working Distance

If your working distance range is outside of the 50-120cm:

Put the camera in a normal working position. Find the small notch on the front of the lens sleeve.

If your working distance is closer than 50cm, rotate the lens sleeve ¼ turn counter clockwise (left) to bring the focus range closer by 15-20cm.

If your working distance is further than 120cm, rotate the lens sleeve ¼ turn clockwise (right) to move the focus range away by 15-20cm.



How to Use

Open the recording software and move the camera and light in to working position.

Allow the camera a few seconds to auto focus on the treatment area. The image on the screen will come in to focus.

If the patient or light moves during treatment, the auto lock will take a few seconds to re-focus. The time to re-focus varies with the distance moved:

- Small position changes focus quickly.
- Large position changes focus slower.

The smartCam can be focused manually using the recording software.

Tips for Best Use

The smartCam works differently than your mobile phone camera! Focus-lock at high resolution in a small area takes time.

Light conditions are more important with autofocus cameras. We recommend 50,000lux minimum clinic lighting with good light beam focus.

Autofocus lock prefers high contrast and may focus on areas beside the treatment site. When this happens, centre the treatment area:



White balance and colour adjustment in the recording software advanced options can be used to give images a more natural appearance:



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