Video capture instructions for CHIMERA™ half parallax

60x80cm or 30x40cm (portrait orientation)

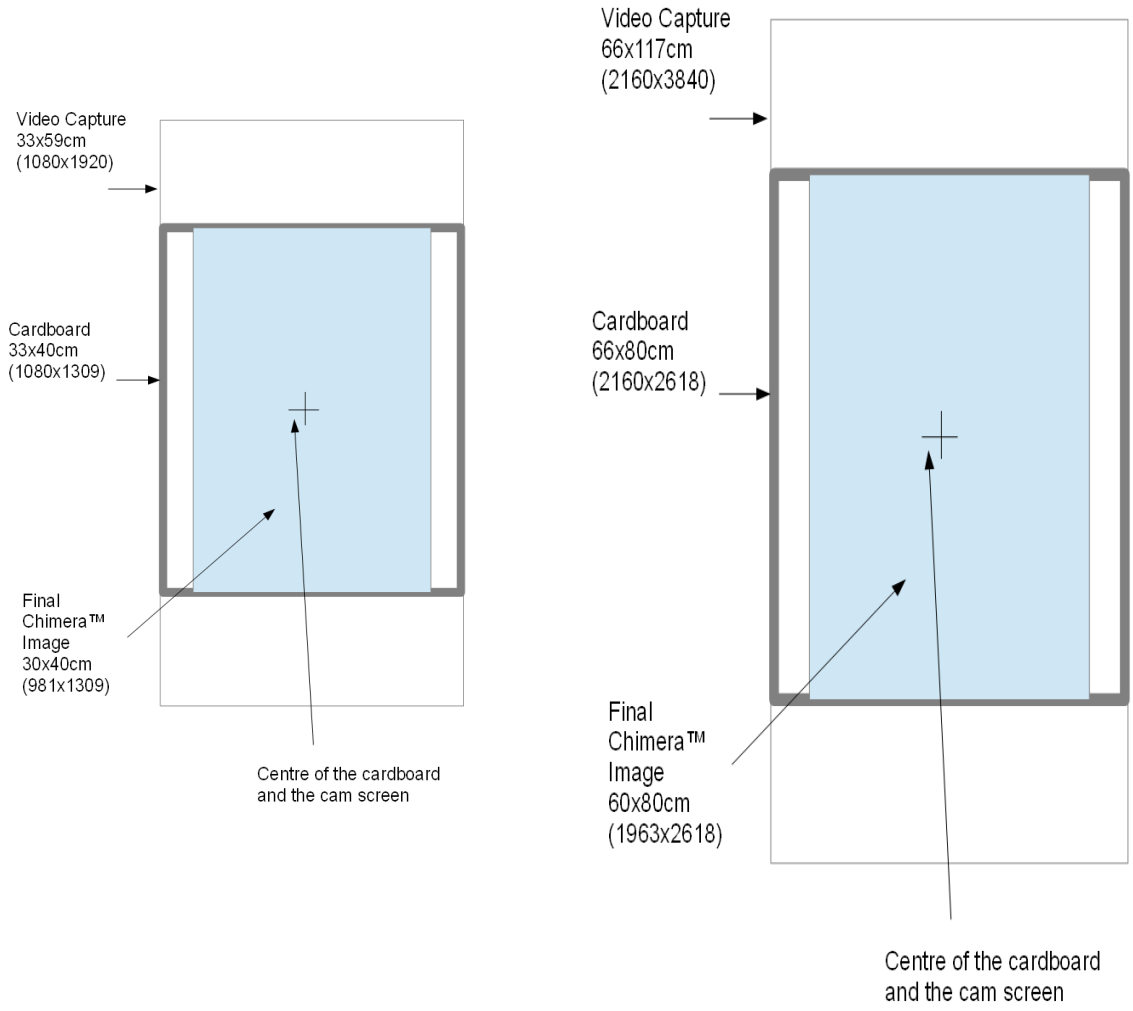
Update April 2019

Preliminaly notes:

1) CHIMERA™ has 4:3 aspect ratio when the HD video cam has a 16/9 image. So you canot use all the resolution of your camera.
2) For technical reasons you will need to record a wider image than the one that will be printed: you must add +5% on the 4 sides.
3) The center of the rotation of the camera will become the vertical center axis of the final CHIMERA™. Anything of the scene in front of this center will appear "floating" in front of the CHIMERA™. This is a very important point to fully understand before you start working.
4) The distance of the camera to the center of the rotation should be measured precisely and given to us with the video as the main parameter.

5)always record in 25p or 50p mode, to capture full images .

Examples of available video formats:
HD: 1080x1920. Recommended for 30x40 CHIMERA™ 500µm hogel print (cropped to 660x880)
4K: 2160x3840. Recommended for 60x80 CHIMERA™ 500µm hogel print (cropped to 1320x1760).
These video formats should be selected carefully with the highest transfer rate to increase final image quality.



Scene Capture preparation (fixed camera, rotating chair):

· Install the video camera at a distance of 120cm for a 60x80cm object, or 100cm for a 30x40cm object, or 50cm for a 15x20cm object, whatever the hologram size will be.

· orient camera vertically (this will maximize the number of pixels used for portraiture)

· prepare a piece of white cardboard of 66 x 88 cm for a 60x80cm CHIMERA™, or of 33x44cm, for a 30x40cm CHIMERA™, and install it so the rotation axis is combined with its center axis.

. Zoom the camera to adjust the cam to the edges of the cardboard, It will autofocus on it and autoedjust the axposure. Then set exposure and focus to « manual » to avoid any change during the recording.

· put 2 vertical bars to visualize 120° (one at -60°, one at +60°), just in front of the camera lense, in the rotation path (inside the camera rotation).These bars will

provide automatic markers for begin / end of 120 degrees. Or count the time of your rotation and calculate the number of images to keep.

· the cardboard represents the hologram plane : when replacing the cardboard by the subject to be captured, place his eyes in that plane. Anything in front of that plane will project out of the hologram, anything behing will be seen behind the glass plate. Do not project more than 25-30% of the subject in front of the plane.

In order to keep a fixed look of the person on the turning tray, put an object to look at (object fixed onto the turning tray)

Set the speed of rotation of the tray in order to obtain around 192 (or 384 or 768) images along the central 120°.