

General rules for using Gemini Photo Digitizer

Base rules: *Do not move the camera if you don't want to recalibrate!*
Be careful not to move the camera when switching it on/off!
Do not move the table or the camera holder, otherwise recalibration is required!
When calibrating use only the grid provided by Gemini !

Lighting conditions

Do not change the lighting conditions; if this is really necessary read carefully the manual instructions or call Gemini technical support personnel.
Do not place any objects between the light source and the active digitizing area.

Camera

If camera is used for other purposes, do not change the settings.
Use only the original support of the camera.

The digitizing surface:

Use only the original surface .
Do not place any other object on the surface during digitizing.
Do not damage the digitizing surface.
Keep the digitizing surface clean.

The patterns:

Patterns must be placed on the digitizing active area (the active area is that zone detected at calibration).
The distance between the patterns must be at least 3 cm (recommended 5 cm).
Do not use adhesive tape on the margins in order to fix the patterns.
The patterns must be perfectly stretched without folded corner.
Be sure that the patterns edges are completely laid on the digitizing surface, otherwise you could obtain shadows around the piece and the conversion will not be properly done.
In order to fix the patterns use the provided weights or similar.
The weights must be placed at at least 2 cm from the edge of the pattern.
The weights must not cover the internal lines or points.
The patterns must be properly cut (the pattern contour must be smooth).

The internal drawings and the notches

Avoid to draw elements near the patterns edges.
Use patterns with very little texts. The text must be as short and small as possible, placed at list at 1 cm from the internal lines.
Use a less visible pen for the texts, internal drawings and seam line which will not be detected.
Use a contrast color (black or blue) for the internal lines and points on the cardboard or white patterns)
You must avoid drawing the internal lines too close the pattern edges.
In order to be precisely detected the **internal points** from the digitized pattern must be:
- two intersected lines of 1 or 1.5 cm length;
- the lines must be intersect one another in a cross shape (as perpendicular as possible);
- the lines must be intersect one another in a point as central as possible;
In order to be precisely detected the **notches** from the digitized patterns must be :
- one unbold small line of 0.5 - 1.5 cm in length in a correct angle.

Patterns check up

You must visually check up the patterns contour, notches and internal drawings.
Make some measurement tests.