

	specification	explanation
Resolution	1920x1080 or more	Using a higher display resolution allows you to get a higher relative resolution between the camera and the display.
Contrast	1000:1 or more	In order to display a test chart with a constant contrast ratio at various brightness, a contrast of 1000:1 or higher is required.
Maximum brightness	250cd/m <sup>2</sup> or more	Using a display with a higher maximum brightness allows you to measure in a brighter environment.
Pixel structure	Stripe RGB	Non-striped RGB displays cannot be used due to the difficulty of defining the display MTF.
Viewing angle (vertical/horizontal)	170deg/170deg or more	We recommend an IPS panel with wide viewing angles.
Surface treatment	Non-glare	Reflection on the chart display may affect measurement, so use the non-glare type.
Set-up function	It is possible to turn off the sharpness function and the automatic brightness adjustment function.	Turn off sharpness and auto-brightness to avoid display artifacts.

We recommend model EV2480-BK manufactured by EIZO as a display that satisfies the above specifications.

The size and resolution of the display should be selected according to the relative resolution between the camera and the display.

Please refer to "Relative resolution (1) and (2)" in the next section.

# About relative resolution(1)

SFR-Fit checks the relative resolution during each measurement to ensure that the display MTF measurement error is less than 5% at the highest frequency point. For example, if the highest frequency point is set to 0.5 Cycle/Pixel, the relative resolution must be 3 times or more. In this case, if the camera and chart display have the same resolution, frame the chart display at 1/3 or less size.

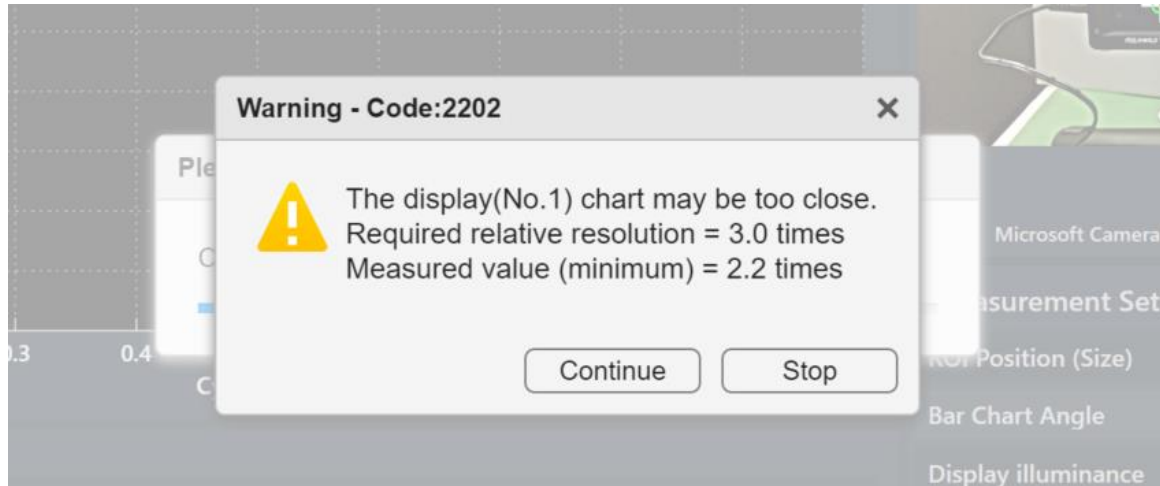


Camera PH = 1080Pixel

Display PH = 1080Pixel

Note that the relative resolution is checked between all grid points on the checkerboard, so if the display chart is distorted or tilted, the lowest relative resolution is checked.

A relative resolution check is performed for each measurement. If the measured relative resolution is lower than the requested resolution, the software will display the warning message below.



There are three ways to resolve this warning:

- Move the display away from the camera.
- Reduce the display size with the same resolution.
- Use a high-resolution display such as 4K at the same size.

Therefore, the size and resolution of the display should be chosen to satisfy the required relative resolution.