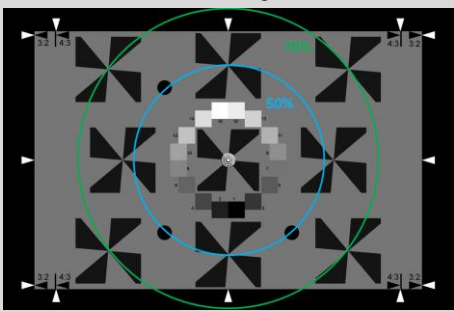


Overview

Product name	TE296 A
Principle	A test chart to determine the resolution of a digital camera based on SFR edge measurement. The chart includes gray patches to perform a linearization and complies with ISO 12233.

Features

Slanted edges

Type/s of pattern	<p>Nine sub-charts of low contrast slanted edges</p> <ul style="list-style-type: none"> <li>• Each sub-chart has two vertical, two horizontal, and four diagonal edges</li> <li>• 16-step grayscale for linearization and circularly arranged. For gradation, refer to the acceptance protocol</li> <li>• Focusing aid in the center of each sub-chart</li> <li>• Edges tilted by 5 degrees</li> <li>• Sub-charts arranged at 50% and 70% image height (for a 4:3 aspect ratio)</li> </ul> 												
Modulation	<p>0.60 ± 0.05 (edge to background), ratio 4:1                  0.70 ± 0.05 (edge to edge), ratio 6:1</p>												
Background reflectance	<p>0.20 ± 0.02                  The A1066 chart is made up of three parts. The backgrounds of these parts can differ from each other within tolerance.</p>												
Sample rate* [MP]	<table border="1"> <thead> <tr> <th></th> <th>minimum</th> <th>maximum</th> <th></th> </tr> </thead> <tbody> <tr> <td>A1066 H</td> <td>---**</td> <td>170</td> <td>(&gt; 8K)***</td> </tr> <tr> <td>A460 H</td> <td>---**</td> <td>30</td> <td>(HDTV - 8K)***</td> </tr> </tbody> </table>		minimum	maximum		A1066 H	---**	170	(> 8K)***	A460 H	---**	30	(HDTV - 8K)***
	minimum	maximum											
A1066 H	---**	170	(> 8K)***										
A460 H	---**	30	(HDTV - 8K)***										



## General description hardware

Type	Reflective				
Aspect ratio	Combines 3:2 and 4:3 (by using framing marks)				
Chart size		W [mm]	H [mm]	D [mm]	Weight [g]
	A1066	1245	835	3.2	≈ 4500
	A460	600	500	3.2	≈ 3000
	other				
Picture size		3:2		4:3	
		W [mm]	H [mm]	W [mm]	H [mm]
	A1066	1066	711	948	711
	A460	460	306	408	306
other					
Material	Photographic film, matt finishing				
Mounting	3mm aluminum composite panel (aluminum Dibond, A1066) 3mm aluminum (A460)				
Edge protection	None				
Service life	Three years				
Storage	Dark, dry, and free from harmful gas (e.g., formaldehyde or ozone). 20 °C and 25 °C with a humidity of 60% – 65% and no direct sunlight at any time.				
Scope of delivery	Test chart, acceptance protocol				

## Miscellaneous

Evaluation / Assessment	RAW recommended, supported by iQ-Analyzer-X since V1.9
Standards	ISO 12233

\* If the chart fills the image height, the chart can be used with a camera of minimum/maximum sampling rate, stated in megapixels (MP)

\*\* No lower limit for Slanted Edges; small ROI increases variance, min. 100-pixel ROI required

\*\*\* HDTV ~ 2.1 MP, 4K ~ 8.3 MP, 8K ~ 33 MP