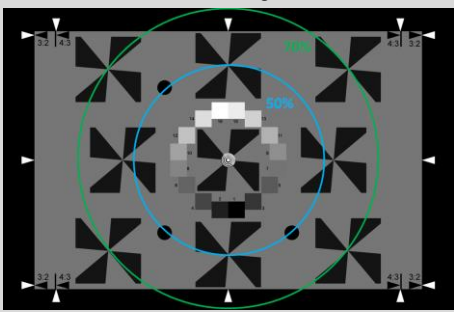


Overview

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"> • Each sub-chart has two vertical, two horizontal, and four diagonal edges • 16-step grayscale for linearization and circularly arranged. For gradation, refer to the acceptance protocol • Focusing aid in the center of each sub-chart • Edges tilted by 5 degrees • Sub-charts arranged at 50% and 70% image height (for a 4:3 aspect ratio) 												
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>(> 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 A1066 is made from three parts, which can differ in gray value with a tolerance of ± 0.03 OD.				
Mounting	3mm aluminum composite panel (aluminum Dibond, A1066) 3mm aluminum (A460)				
Edge protection	None				
Service life	3 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