



Overview

Product name	TE283C
Principle	Test chart to determine the resolution of a digital camera

Features

Slanted edges

Type/s of pattern	1 chart of slanted edges with two vertical and two horizontal edges and one set of gray patches for linearization		
Modulation	0.55 - 0.65 (edge to background)		
Background	0.15 - 0.25 remission		
Inclination of the edges	10 degrees		
Size of subchart	100 x 100 mm		
Sample rate* [MP]	minimum		maximum
	H	-	100**

OECF

Type/s of pattern	Gray scale for linearization
Contrast	Approx. 22:1 (27 dB, 4.5 f-stops)
Size of OECF patch	50 x 50 mm
Number of steps	20
Arrangement of steps	Linear reflection (logarithmic OD)
Density / Reflection values	Individually measured values are provided in a separate Acceptance Protocol. Production tolerance is ± 0.03 OD



General description hardware

Type	reflective			
Aspect ratio	1:1			
Chart size [W x H x D]	W [mm]	H [mm]	D [mm]	Weight [g]
	322	322	2.3	
Picture size	W [mm]	H [mm]		
	300	300		
Material	Photographic paper, matt finishing, suitable for usage in near IR up to 1050nm***			
Mounting	Aluminum, 2mm			
Edge fashioning	Fabric tape, 10mm width			
Chart size tolerances	Up to +/- 2 mm as they are handmade in-house and fabric tape is used			
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, software based analysis, supported by iQ-Analyzer-X
Reference data iQ-Analyzer-X	Individual reference file provided
Measurement device	X-Rite eXact https://www.image-engineering.de/content/products/charts/IE_reference_data_accuracy.pdf
Standards	In respect to ISO 12233
Accessories	Chart case, magnetic tape
Terms & Conditions	image-engineering.de/terms-and-conditions

* if chart fills 1/3 image height the chart can be used with a camera of minimum/maximum sample rate, stated in mega pixel (MP)

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

*** the existing measurement tools have a range up to a maximum of 1050nm, therefore a specification of longer wavelengths is not possible