



Overview

Product name	TE197 A / TE197 D
Principle	Test chart to determine the OECF, noise, SNR and dynamic range of a digital camera according to ISO 14524, ISO 15739, ISO 12232 and also according to ISO 16505 (mirror replacement systems, TE197 D)

Features

OECF

Type/s of pattern	gray scale, circular arranged (most optical systems are rotationally symmetric so all patches will be affected in the same way by shading)	
Contrast	20:1 (25 dB, 4 f-stops) 80:1 (38dB, 6 f-stops) 160:1 (40 dB, 7 f-stops) 1,000:1 (60 dB, 10 f-stops) 4,000:1 (70 dB, 12 f-stops)	
Quality	Standard version or X-version	
Number of steps	12	
Arrangement of steps	According to ISO 14524 (densities of each patch see annex)	
Size of gray patches	W [mm]	H [mm]
	A1066	94
	A460	41
	A360	32
	A280	24.7
	D280	24.7
	D240	21
	D240S	21



General description hardware

Type	transmissive reflective				
Aspect ratio	Not applicable				
Chart size [W x H x D]		W [mm]	H [mm]	D [mm]	Weight [g]
	A1066	1245	835	3.2	
	A460	600	500	3.2	
	A360	500	400	3.2	
	A280	365	305	3.2	
	D280	360	280	4.6	
	D240	320	290	4.6	
	D240S	360	280	4.6	
Picture size		16:9			
		W [mm]	H [mm]		
	A1066	1066.67	600		
	A460	460	258.75		
	A360	360	202.5		
	A280	280	157.5		
	D280	280	157.5		
	D240	240	135		
D240S	240	135			
Material	specific matt paper (A charts) Photographic film (D charts)				
Mounting	aluminum composite panel (aluminum Dibond), size A1066 aluminum, size A460, A360, A280 embedded between glass plates (D charts)				
Edge protection	fabric tape (except size A1066)				
Service life	3 years				
Scope of delivery	Test chart, case for storing the chart safety (A charts, except size A1066), stable cardboard envelope (D charts), acceptance protocol				

Miscellaneous

Evaluation / Assessment	supported by iQ-Analyzer (since version 5)
Standards	ISO 14524:2009 Methods for measuring opto-electronic conversion functions (OECFs) (TE269A V2 only) ISO 15739:2013 Noise measurements ISO 12232:2006 Determination of exposure index, ISO speed ratings, standard output sensitivity, and recommended exposure index ISO 16505:2015 Road vehicles – Ergonomic and performance aspects of Camera Monitor Systems – Requirements and test procedures
Accessories	Chart case