



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	<input type="checkbox"/> 20:1 (25 dB, 4 f-stops) <input type="checkbox"/> 160:1 (40 dB, 7 f-stops) <input type="checkbox"/> 1,000:1 (60 dB, 10 f-stops) <input type="checkbox"/> 4,000:1 (70 dB, 12 f-stops) <input type="checkbox"/> other: _____	
Quality	<input type="checkbox"/> Standard version <input type="checkbox"/> 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 94
	A460	41 41
	A360	32 32
	A280	24.7 24.7
	D280	24.7 24.7
	D240	21 21
	D240S	21 21
	other	

197AD190313



General description hardware

Type	<input type="checkbox"/> transmissive <input type="checkbox"/> reflective				
Aspect ratio	Not applicable				
Chart size [W x H x D]		W [mm]	H [mm]	D [mm]	Weight [g]
	<input type="checkbox"/> A1066	1245	835	3.2	
	<input type="checkbox"/> A460	600	500	3.2	
	<input type="checkbox"/> A360	500	400	3.2	
	<input type="checkbox"/> A280	365	305	3.2	
	<input type="checkbox"/> D280	360	280	4.6	
	<input type="checkbox"/> D240	320	290	4.6	
	<input type="checkbox"/> D240S	360	280	4.6	
	<input type="checkbox"/> other				
Picture size		16:9			
		W [mm]	H [mm]		
	<input type="checkbox"/> A1066	1066.67	600		
	<input type="checkbox"/> A460	460	258.75		
	<input type="checkbox"/> A360	360	202.5		
	<input type="checkbox"/> A280	280	157.5		
	<input type="checkbox"/> D280	280	157.5		
	<input type="checkbox"/> D240	240	135		
	<input type="checkbox"/> other				
Material	<input type="checkbox"/> specific matt paper <input type="checkbox"/> Photographic film				
Mounting	<input type="checkbox"/> aluminum composite panel (aluminum Dibond), size A1066 <input type="checkbox"/> aluminum, size A460, A360, A280 <input type="checkbox"/> 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				

197AD190313



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



Acceptance protocol

SN: _____
Contrast: 4000 :1
Date: _____
Operator: _____

Optical density (OD) values gray patches*

Patch Reference OD Measured OD Deviation

1 (white)	0,11		
2	0,23		
3	0,36		
4	0,50		
5	0,66		
6	0,85		
7	1,07		
8	1,33		
9	1,65		
10	2,08		
11	2,74		
12 (black)	4,11		
BG	1,11		



* values gathered with diffuse illumination

Signature



Acceptance protocol

SN: _____
Contrast: 1000 :1
Date: _____
Operator: _____

Optical density (OD) values gray patches*

Patch Reference OD Measured OD Deviation

1 (white)	0,11		
2	0,22		
3	0,34		
4	0,48		
5	0,63		
6	0,80		
7	0,99		
8	1,22		
9	1,49		
10	1,85		
11	2,33		
12 (black)	3,11		
BG	1,11		



* values gathered with diffuse illumination

Signature