



# Overview

Product name	TE262 A
Principle	Multipurpose test chart designed to evaluate the image quality of scanners and other digital input devices for the archiving industry used to create digital images of documents, photos and other reflective media. It is available in various sizes ranging from A4 to A0.

#### Features

GRAY SCALE

Type/s of pattern	Grayscales A4 2 A3/A2/A1/A0 4/8/16/32			
Patch size [mm]	15 x 7			
Contrast	200:1 (46 dB, 7.64 f-stops)			
Number of steps	20			
Arrangement of steps	Starting at L* of 5 with 5 L* value increments (L* 5 – L* 95)			
Color Values	Production tolerance is $\pm$ 3 $\Delta E$ and $\Delta L^*$			

# Color patches

Type/s of pattern	• 18 colors similar	3, multiple for A2, A1, A0 to the ColorChecker Classic o pastel patches of columns I 1 block 2/4/8/16 blocks	D and K to the ColorChecker SG	ē
Patch size [mm]	10 x 10			



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	Patch	L*	a*	b*	Patch	L*	a*	b*	Patch	L*	a*	b*
	A1	18	24	-61	B1	53	-45	38	C1	46	64	34
	A2	82	3	90	B2	49	56	-14	C2	48	-34	-31
	A3	61	38	74	B3	35	12	-53	C3	48	54	21
Color values	A4	21	35	-32	B4	72	-25	65	C4	71	19	80
	A5	32	24	32	B5	64	20	19	C5	47	-5	-25
	A6	45	-32	38	B6	53	8	-27	C6	69	-35	-1
	A7	85	-2	-9	B7	85	13	0	C7	86	-19	-1
	A8	86	13	7	B8	85	-11	26	C8	87	10	18
	A9	90	-17	6	B9	85	4	-6	C9	85	-14	-9
Color values	Production $\pm$ 7 $\Delta$ E for $\pm$ 5 $\Delta$ E for $\pm$ 4 $\Delta$ E for	or C1, B <sup>2</sup> or B2, A2	I, A1, C2 2, B8, A8		7, A7, C8	}						

# Slanted edges

	Slanted Edge Patch					
Type/s of pattern	A4	9x4				
	A3/A2/A1/A0	9x4 / 18x4 / 36x4 / 72x4				
Resolution	20 LP/mm					
Modulation		L* 38 / OD 1.00 (Edge) L* 63 / OD 0.50 (Background)				
Size of sub-chart [mm]	25 x 25					
Patch size tolerance	Up to +/- 1.0 mm as they are hand-cut					
Density / Reflection values	Production tolerance is	s ± 0.03 OD				

#### Resolution pattern

Tuno/s of pottorn	Line pattern A4	9	+ + +
Type/s of pattern	A3/A2/A1/A0	9/18/36/72	
Resolution	4.5 – 6.3 LP/mm		
Size of sub-chart [mm]	25 x 25		
Patch size tolerance	Up to +/- 1.0 mm as the	ey are hand-cut	

# TE263 (implemented)

Type/s of pattern	Scan reference chart implemented in the original data sheet. A4 0		he design of the UTT. For specs visit the	
	A3/A2/A1/A0	1/2/4/8	:/all/580-te263	
	image-engineering.de/p	roducts/charts	s/all/580-te263	



#### Background checker board

Type/s of pattern	Checker board can be used for uniformity analysis, white balance checking, and distortion and deviation analysis.	88
Modulation	L* 96 / OD 0.05 (white patch) L* 50 / OD 0.75 (grey patch)	
Patch size [mm]	10 x 10	

#### Grey bars

Type/s of pattern	3 horizontal, 3 vertical grey bars located at the top and left of the target 5mm from the border crossing
Modulation	L* 3 / OD 2.36 (black bar) L* 96 / OD 0.05 (white bar) L* 50 / OD 0.75 (grey bar)
Density / Reflection values	Production tolerance is ± 0.03 OD

#### Scales

Type/s of pattern	Horizontal and vertical with a millimeter and inch scale on white background, crossing at 30/30mm	50 60 70 	
	<b>o</b> , <b>o</b>		

# Surrounding black line

Type/s of pattern	Line surrounding the target needed to combine single targets into larger arrangements of A2 to A0 and to allow cutting.
Thickness [mm]	1
Size of sub-chart [mm]	420 x 300

# General description hardware

Туре	Reflective (A) Mounted or unmounted	
Chart arrangement A4		
Chart arrangement A3 – A0	A3	

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# TE262 A data sheet



		mounted			unmounted			
Chart/Picture size [W x H x D] [mm]		W	Н	D	W	Н	D	
	A4*	302	211	3.2	302	211	0.260	
	A3*	423	302	3.2	423	302	0.260	
	A2*	604	423	3.2	601	421	0.260	
	A1*	844	604	3.2	841	601	0.260	
	A0*	1202	842	3.2	1201	841	0.260	
Chart size tolerances	Mounted: Up to +/- 0.5 mm Unmounted: Up to +/- 1.0 mm as they are hand cut							
Material	Print: Specific glossy paper, resolution 3-4 LP/mm Slanted Edges and resolution pattern: Contact copy from chrome mask							
Mounting	Mounted: Aluminum composite panel Unmounted: None							
Edge protection	No							
Service life	Color print 2 years Please check annually if a new reference measurement is necessary for color targets. We also recommend and offer a recalibration of the chart after 3 years of regular use.							
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							

# Miscellaneous

Evaluation / Assessment	Supported by iQ-Analyzer-X Visual appraisal	
Reference data iQ-Analyzer-X	Individual reference file provided, if ordered measured Default reference file integrated in the iQ-Analyzer if ordered unmeasured	
Measurement device	X-Rite eXact (reflective charts) https://www.image-engineering.de/content/products/charts/IE_reference_data_accuracy.pdf	
Standards	ISO 19264, Metamorfoze Guideline	
Related Products	TE263 Scan reference chart	
Terms & Conditions	image-engineering.de/terms-and-conditions	

 $^{\ast}$  The dimensions deviate slightly from the DIN standard values and are not fully compliant

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