



Overview

Product name	TE250 D
Principle	High contrast transparency chart containing group 0 to 7 on a 35 mm film. The single patterns are based on 3 black bars on transparent ground in horizontal and vertical direction. The structure corresponds to the USAF 1951 standard.

Features

USAF pattern

Type/s of pattern	Grid, 20 x 30 crosses, 20 x 30 dots,
Usage	For scanner resolution up to 10,000 ppi
Frequencies	See list in the end of this document

General description hardware

Type	Transmissive (D)			
Aspect ratio	4:3			
Chart size [mm]		W	H	D
	D35	50	50	2.6
Picture size [mm]		W	H	
	D35	28	21	
Material	Contact copy of a chrome mask on photographic film			
Mounting	Embedded in 35mm slide frame			
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, case for D35 charts			



Miscellaneous

Evaluation / Assessment	Visual appraisal
Standards	USAF 1951
Terms & Conditions	image-engineering.de/terms-and-conditions

Frequencies

Group Number	0		1		2		3	
Element	Linepair / mm	äquiv. Ppi	Linepair / mm	äquiv. Ppi	Linepair / mm	äquiv. Ppi	Linepair / mm	äquiv. Ppi
1	1	50,8	2	101,6	4	203,2	8	406,4
2	1,12	56,896	2,24	113,792	4,49	228,092	8,98	456,184
3	1,26	64,008	2,52	128,016	5,04	256,032	10,1	513,08
4	1,41	71,628	2,83	143,764	5,66	287,528	11,3	574,04
5	1,59	80,772	3,17	161,036	6,35	322,58	12,7	645,16
6	1,78	90,424	3,56	180,848	7,13	362,204	14,3	726,44
Group Number	4		5		6		7	
Element	Linepair / mm	äquiv. Ppi	Linepair / mm	äquiv. Ppi	Linepair / mm	äquiv. Ppi	Linepair / mm	äquiv. Ppi
1	16	812,8	32	1625,6	64	3251,2	128	6502,4
2	17,95	911,86	36	1828,8	71,8	3647,44	144	7315,2
3	20,16	1024,128	40,3	2047,24	80,6	4094,48	161	8178,8
4	22,62	1149,096	45,3	2301,24	90,5	4597,4	181	9194,8
5	25,39	1289,812	50,8	2580,64	102	5181,6	203	10312,4
6	28,5	1447,8	57	2895,6	114	5791,2	228	11582,4