

Log Density - EIA Grayscale Pattern Slide



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Product Details

- Video Calibration
- Permanent Density Standard
- Evaluate/Compare the Dynamic Range of Cameras

Ideal for evaluation of video or optical inspection systems and cameras. Convenient format (50.8 x 50.8 x 1.5mm nominal) may be viewed directly or projected with 35mm slide projector. Pattern is a "standard" and consists of two scales: EIA Equal Steps Transmission (Linear) and EIA Equal Steps Density (Logarithmic). Each scale has nine steps from 3% to 60% transmission (EIA 20:1). All steps are accurately obtained by an ultra-precise halftone pattern. Pitch is 0.001". The steps are side-by-side, 0.200" x 0.100", without spaces or borders. Transmissions and Densities are shown below with strict tolerances. Scale is permanent chrome on glass material which resists harsh environments. Background is opaque with an Optical Density of 3.0 (T = 0.1%).

Technical Information

Step/Field	Equal Transmission Scale – Linear EIA 20:1				Equal Density Scale – Logarithmic EIA 20:1			
	Density		% Transmission		Density		% Transmission	
	Nominal	Tolerance ±	Nominal	Tolerance ±	Nominal	Tolerance ±	Nominal	Tolerance ±
1	1.523	0.228	3.000	1.5	1.523	0.228	3.000	1.5
2	0.995	0.117	10.125	2.7	1.360	0.185	4.363	1.8
3	0.763	0.088	17.250	3.5	1.198	0.150	6.344	2.2
4	0.613	0.073	24.375	4.1	1.035	0.123	9.266	2.6
5	0.502	0.064	31.500	4.6	0.872	0.100	13.416	3.1
6	0.413	0.058	38.625	5.1	0.710	0.080	19.510	3.7
7	0.340	0.053	45.750	5.6	0.547	0.068	28.372	4.4
8	0.277	0.049	52.875	6.0	0.384	0.056	41.259	5.3
9	0.222	0.046	60.000	6.4	0.222	0.046	60.000	6.4