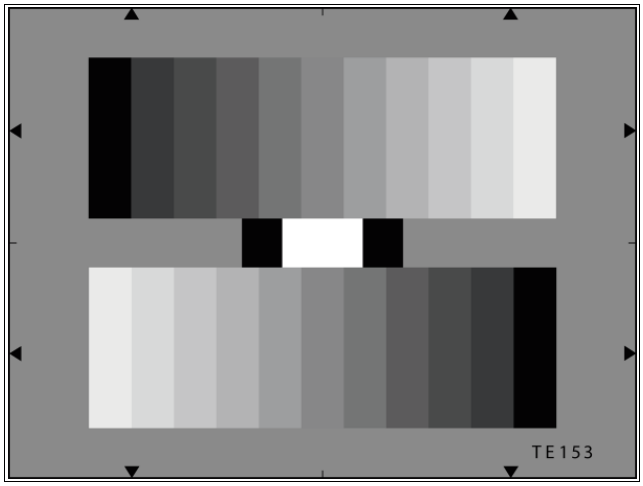
LOGARITHMIC GRAY SCALE TEST CHART

REFLECTANCE



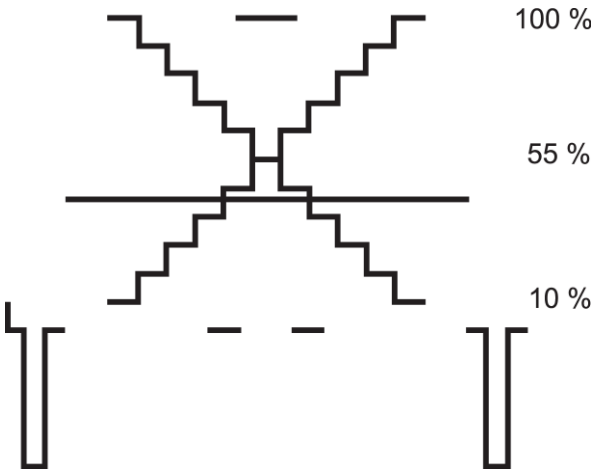
Two 11-graduated counter current gray scales are arranged on a gray background (D=0.75), the gray scale being graduated logarithmically.

Related to the densities of the gray scales: gamma = 0.45
Related to the reflectance values (brightness): gamma = 2.2 , that being exactly the reciprocal value of gamma = 0.45.

The output signal of an optimally gamma-corrected camera yield two 11-graduates counter current linear step signals. The contrast range of the gray scales is 40 : 1.

The values of the 11-graduated gray scale are as follows:

Step	Density	Reflectance in %
1	0.05	89
2	0.13	74
3	0.22	60
4	0.32	48
5	0.43	37
6	0.55	28
7	0.69	20
8	0.88	13
9	1.06	8
10	1.31	5
11	1.65	2



The density values are based on $BaSo_4$ = 0. Two black fields and a white field are located between the gray scales, the density of the black filed is D > 2.4 (reflectance < 0.5 %). The density of the white filed is D = 0.05 (reflectance = 89.9 %).