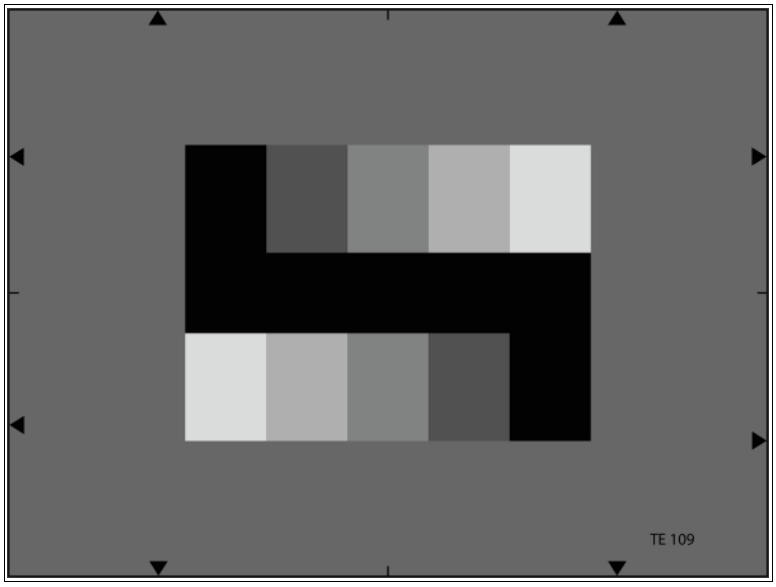
LOGARITHMIC GRAY SCALE TEST CHART

TRANSPARENCY



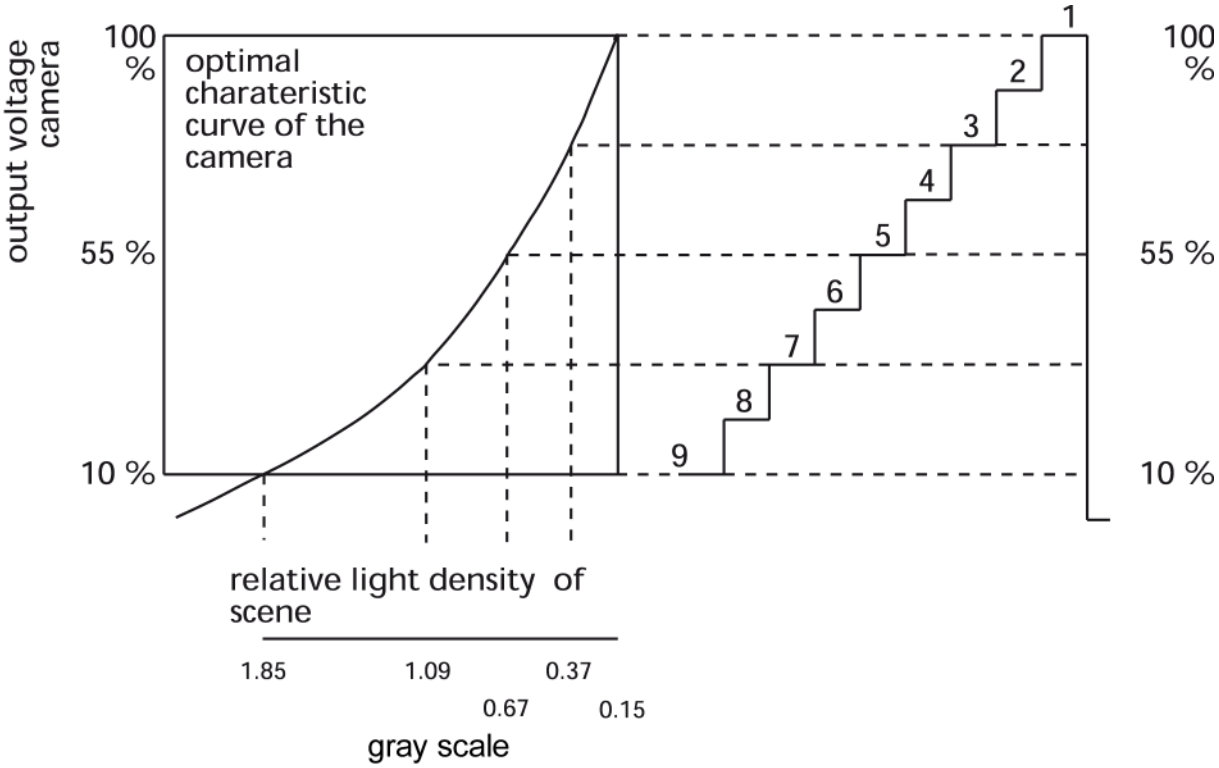
Two 5-graduated counter current gray scales are arranged on a gray background (D= 0.65), the gray scales being graduated logarithmically. Related to the densities of the gray scales: gamma = 0.45. Related to the transmission values (brightness): gamma = 2.2, that being exactly the reciprocal value of gamma = 0.45

The output of an optimally gamma-corrected camera yields two 5-graduated counter current linear step signals. The contrast range of the gray scales is 40:1.

The values of the 5-graduated gray scale are as follows:

Step	Density	Transmission in %	Output voltage in %
1	0.15	71	100
2	0.37	43	77.5
3	0.65	22	55
4	1.05	9	32.5
5	1.75	2	10

The density values are based on the white in the zebra strip= 0. A field of black velvet is located between the gray scales. The density of this field is D > 3 (remission < 0.1 %).


output voltage camera
100 %
55 %
10 %
optimal charateristic curve of the camera
1
2
3
4
5
6
7
8
9
100 %
55 %
10 %
relative light density of scene
1.85
1.09
0.67
0.37
0.15
gray scale