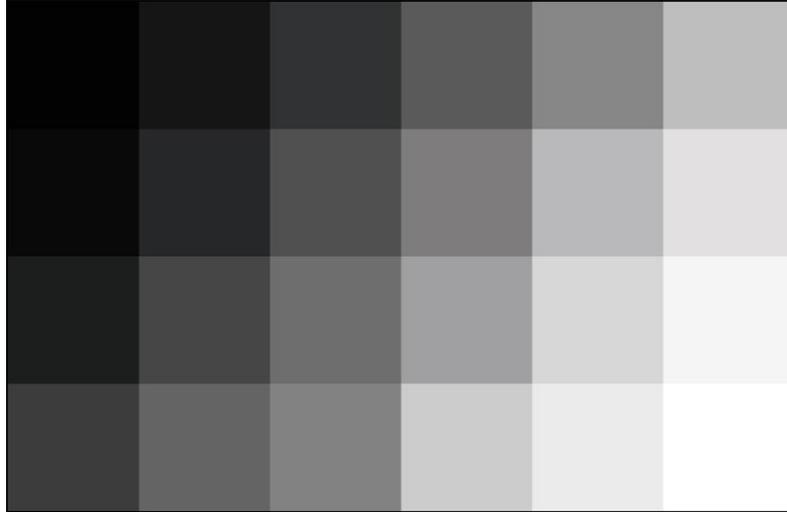




CERTIFICATE

SCANNER DYNAMIC RANGE CHART (ISO 21550) 200:1 REFLECTIIVE



The TE240 D is designed to determine the dynamic range and the scanner opto electronic conversion function (OECF). The OECF describes how the scanner transforms luminance values of the object into digital code values in the digital image. The OECF is typically measured from a gray scale.

The specification of TE240 D is derived from ISO 21550.

The chart size is 100 x 150 mm, the image size is 85 x 125 mm. The chart is unmounted.



The test chart contains a neutral gray scale with 24 patches. The patches are arranged from highest density in the top left corner to lowest density in the bottom right corner.

The density values of the gray scale is as follows (batch measured):

Step	Density (Status A)
1	0,030
2	0,110
3	0,250
4	0,380
5	0,520
6	0,620
7	0,750
8	0,850
9	0,960
10	1,080
11	1,250
12	1,330
13	1,470
14	1,540
15	1,640
16	1,850
17	1,880
18	1,920
19	2,000
20	2,070
21	2,120
22	2,180
23	2,290
24	2,360



24	22	19	15	11	7
23	20	16	12	8	4
21	17	13	9	5	2
18	14	10	6	3	1

In order to measure a scanner, the contrast of the chart should exceed the dynamic range of the camera under test. The TE240 A is therefore available in the contrast range 250:1.

Fiducial marks in the corners of the target can be used for automated analysis of the patches.

The density values of the patches can be used to create your specific reference file for the evaluation in the iQ-Analyzer software. To type in the values use the "Luminance and Density Data" button in the advanced settings of the OECF module.