sensitivities at the three measurement at each pixel: tristimulus value functions 3 color values R, G and B optimization of 3×3 - or 3×6 -device matrices for development intent: conversion from RGB to L*a*b* colorimetric device driver: with 17 CIE-test colors conversion of three color values R, G and B in colorness calculation of the spectral color L^* , a^* and b^* (CIELAB system) reflection or transmission at each image position, for example problems: with three densities of three known large pixel amount: dyes (color pigments), approximately 3000×2000 pixels only possible for within a color slide 36mm × 24mm homogeneous material often original size larger than (slide material, printing material)

three procedures for optimization

ME501-71, B1 07

of colorimetric device driver:

adaptation of the spectral

scanner for color slide material:

0,01mm image point diameter 4096 (12 bit) luminance range

three photoelectric sensors

DIN-A2 with drum scanners

1-013130-F0

1-013130-L0