## • three photoelectric sensors • 0,01 mm image point diameter • 4096 (12 bits) luminance range measurement at each pixel: 3 color values O, L and V

scanner for color slide material:

colorimetric device driver: conversion of three color values O, L and V in color parameters  $L^*$ ,  $a^*$  and  $b^*$  (CIELAB-system)

development intent:

problems: large pixel amount:

DIN-A2 with drum scanners

approximately 3000 × 2000 pixels within a color slide 36 mm  $\times$  24 mm often original size larger than

tristimulus value functions • optimization of  $3 \times 3$ - or  $3 \times 6$ - device matrices for

three procedures for optimization

of colorimetric device driver:

 adaptation of the spectral sensitivities at the three

conversion from *OLV to L\*a\*b\** with 17 CIE-test colors

dyes (color pigments), only

• calculation of the spectral color reflection or transmission at each image position, for example with three densities of three known

possibly with always homogeneous material presentations (slide material, printing material)

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