

Control Device

Ugra/FOGRA Reproduction Test Chart 1999® V2.0

A proven test device adapted to new requirements

The Ugra/FOGRA Reproduction Test Chart for the setting of scanners was first introduced in 1998. Amongst other components, the then Test Chart included a difficult test image with tertiary colours that enabled the achromatic and Under Colour Removal adjustment to be definitively assessed. This test image gained considerable acceptance in the prepress sector and beyond, and it has therefore been incorporated unaltered in the new 1999 version.

Contents of the Ugra/FOGRA Reproduction Test Chart 1999® V2.0

Test image

The key component ("plum motif" test image)

of the 1988 Test Chart has been incorporated into the new 1999 Test Chart in order to continue to be able to check the following assessment criteria in digitizing devices:

- Colour reduction
- Highlight detail
- Shadow detail
- Reproduction of details

Besides chromatic colours used in the industry the test image also contains some particularly critical tertiary colours (e.g. brown, olive), which appear in differing degrees of brightness. This test image is therefore especially suitable for assessing both the quality of image digitization and also the quality of output media such as (monitor; proof print, proof; printing).



The grey balance should be checked by means of the colours generated by the two grey wedges rather than by the test image. The Ugra/FOGRA Reproduction Test Chart supplements the test image with a set of colour test panels that were originally designed for checking the colour separation.

In relation to this point, the needs of the industry have changed, since today's digitizing devices no longer require a series of knobs to control the settings for colour separation. In order to assess separation performance the ISO 12641 Test Chart is preferred today. The control panels of the Ugra/FOGRA Reproduction Test Chart are therefore aimed much more at testing the quality of the tonal value transition that can be achieved with an input scanner. The new Test Chart has three colour vignette panels for this purpose.

Colour vignette panels

The three colour vignette panels show the transition from each of the primary colours to its complementary colour. These panels allow the filters of the scanner to be tested. If excessively narrow-band filters are used, the colour vignette cannot be reproduced continuously and this can lead to tonal breaks. On the other hand, if the scanner uses excessively broad-band filters it is possible that no continuous gradation will arise. Once a minimum has been reached the density will start to increase again.

Skin tone panel

The skin tone panel displays brightness gradations for a common skin tone. This is representative of a wide variety of flesh tones. Problems that occur in connection with skin tones (tonal breaks) can be easily identified.

Resolution test panel

A Siemens star for checking the resolution achieved during scanning has also been

incorporated into the Test Chart. The larger the dark region (core) in the centre of the Siemens star the lower the scan resolution that has actually been achieved. For such checks one should always compare two scans.

Quality control during production

Every individual Test Chart is measured colorimetrically by the manufacturer (comparison of actual and desired value). Additionally, an Ugra/FOGRA PostScript Control Strip is exposed alongside each Test Chart during production as a reference. This is separated from the Test Chart and stored with the measured values. Since every Test Chart is numbered and identified it is possible to track backwards at any time.

The Ugra/FOGRA Reproduction Test Chart 1999 is available in three versions:

Reflection copy:	Format 16.5 cm x 22.5 cm
Transparency:	Format 16.5 cm x 22.5 cm
Transparency:	Format 24 mm x 36 mm

Note

The Test Chart is not suitable for the production of a profile for colour management applications.

Price: on request
(FOGRA members get a discount of 25 %)

Please contact

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