

## The System Brunner Picture Contrast Classes

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The surprising new knowledge gained through the investigation of picture contrast motivated System Brunner® to quantify pictures according to their contrast profiles, and to classify them, with the help of the System Brunner® picture contrast classes, corresponding to their degree of difficulty for reproduction – and regulation technology.

The picture contrast classes are illustrated by the System Brunner® Colour Balance Hexagon on page 9.

The outermost ring of hexagonal colour patches is marked no. 3 which stands for picture contrast class 3. The colour gradations of these patches represent a screen difference of  $\pm 6\%$ , compared to the centre patch. Colour gradations in pictures of this contrast class are perceived by the viewer as slightly visible. The scale used for the distinction of perceived colour gradations is made up of the following five steps: not or barely visible – slightly visible – clearly visible – strongly visible – extremely visible.

The ring in the middle (no. 2) designates class 2, with colour gradations corresponding to  $\pm 4\%$ . The majority of pictures pertains to this class.

The innermost ring, class 1, shows steps of  $\pm 2\%$ . Pictures of this class contain little or no colour contrast at all. Under these conditions, the sensitivity of the viewer is increased considerably, and the colour gradations in pictures are slightly to clearly visible.

The centre patch of the hexagon characterizes class 0 which includes homogenous colour patches without picture effect. This area is beyond the range of image reproduction technology. On the other hand, the known colour gradation formulas of spectrometry can be applied for this area.