

KODAK Q-60 Color Input Targets

Target Availability

Color targets produced in accordance with ANSI Standards IT8.7/1 (transmission) and IT8.7/2 (reflection) are being manufactured by Eastman Kodak Company for use in color scanner calibration systems and by color management input color profile generation tools.

These targets are available as follows:

ID	Product	Description	Cat #	Price	
				1-10	11-99
R1	KODAK EKTACOLOR Professional Paper	5 x 7 inch Single Targets	190 7914	\$29.00	\$20.50
R1	KODAK EKTACOLOR Professional Paper	5 x 7 inch Bulk Package of 100	TBD	\$1750.00	
E1	KODAK EKTACHROME Professional Film	4 x 5 inch Single Targets	829 4738	\$86.00	\$60.00
E1	KODAK EKTACHROME Professional Film	4 x 5 inch Bulk Package of 100	TBD	\$4900.00	
E3	KODAK EKTACHROME Professional Film	35 mm Single Targets	875 2222	\$29.00	\$20.50
E3	KODAK EKTACHROME Professional Film	35 mm Bulk Package of 100	867 4566	\$1300	

Target Data Files

Batch average data is available at <ftp://ftp.kodak.com/gastds/q60data> A hotlink is available from the Kodak Home Page (WWW.KODAK.COM or WWW.KODAK.CO.JP) - "Find" Q60 or IT8 in the product catalogue.

Order Information

Targets may be ordered for shipment within the United States from:

Kodak Professional Customer Service
Eastman Kodak Company, Rochester, NY 14650
Tel: (800) 822-9442

Customers outside the United States should contact their local Kodak House or representative.

Large Volume Users

For those customers whose needs exceed 5000 targets per year, special arrangements are recommended to insure timely scheduling and delivery. Such arrangements should be discussed with the Product Manager, Charles Whitfield, 716-722-3384, cwhitfie@kodak.com.

Kodak Q-60 Target Characteristics

The intent of the Q-60 Targets, and the IT8.7/1 and IT8.7/2 standards upon which they are based, is to define an input test target that will allow any color input scanner to be calibrated to respond correctly to the material being scanned or to develop the material specific color characterization data for input profile generation. The emphasis is on color transparency and reflection products which are generally used for input to the preparatory process for printing and publishing.

It is important to note that any color photographic product contains both image capture (sensitizing) dyes as well as image-forming dyes. While the image sensitizing dyes are a vital part of the film performance, it is only the image forming dyes that affect scanner calibration or characterization. Fortunately, only a small number of image forming dyes are used in the Kodak family of products. Specifically, one set of image forming dyes can be used for EKTACHROME film, and one for EKTACOLOR paper. This means that only one Q-60 target is required to represent the complete EKTACHROME film family and one for EKTACOLOR paper.

The target design provides uniform mapping in the CIELAB color space and is defined in detail in ANSI standard IT8.7/1 and IT8.7/2, or ISO 12641. In addition, Kodak targets include a series of flesh tones and a portrait image which is useful in subjective confirmation of input scanner calibration. Three color separation indicators at the top of each target make it easy to identify process color films or data files when separations are made.

Target Tolerances

The ANSI standards provide for tolerancing of targets in several ways..

A. Uncalibrated Targets:

Targets tolerances are specified by ANSI IT8.7/1, IT8.7/2 and ISO 12641 as follows:

1. For all targets manufactured: For patches having specified colorimetric aim values 99% shall be within 10 delta E units of the values specified.
2. For each manufacturing batch: 99% of the patches within the manufacturing batch shall be within 5 delta E units of the reference as follows:
 - the reference shall be the reported batch mean.
 - for the 22-step neutral scale the reference shall be the value specified in the standard.

B. Calibrated Targets:

Calibrated targets are uncalibrated targets which have been measured. The goal is that all measurements will be accurate within 2 delta E.

NOTE: Although Kodak has chosen not to provide calibrated targets, the within batch variability in patch colorimetry, under current manufacturing conditions, is so low that the uncertainty in batch average data meets the tolerances specified for calibrated targets.