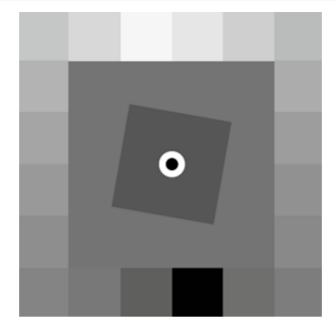
TE283C data sheet





Overview

| Product name | TE283C |
|--------------|--|
| Principle | Test chart to determine the resolution of a digital camera |

Features

| Slanted edges | | | | |
|--------------------------|---|--|--|--|
| Type/s of pattern | 1 chart of slanted edges with two vertical and two horizontal edges and one set of gray patches for linearization | | | |
| Modulation | 0.55 - 0.65 (edge to background) | | | |
| Background | 0.15 - 0.25 remission | | | |
| Inclination of the edges | 10 degrees | | | |
| Size of subchart | 100 x 100 mm | | | |
| Sample rate* [MP] | minimummaximumH-100** | | | |

OECF

| Type/s of pattern | Gray scale for linearization |
|----------------------------|--|
| Contrast | Approx. 22:1 (27 dB, 4.5 f-stops) |
| Size of OECF patch | 50 x 50 mm |
| Number of steps | 20 |
| Arrangement of steps | Linear reflection (logarithmic OD) |
| Density / Refection values | Individually measured values are provided in a separate Acceptance Protocol. Production tolerance is \pm 0.03 OD |



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General description hardware

| Туре | reflective | | | | |
|------------------------|--|--------|--------|--------|------------|
| Aspect ratio | 1:1 | | | | |
| Chart size [W x H x D] | | W [mm] | H [mm] | D [mm] | Weight [g] |
| | | 322 | 322 | 2.3 | |
| Picture size | | W [mm] | H [mm] | | |
| | | 300 | 300 | | |
| Material | Photographic paper, matt finishing, suitable for usage in near IR up to 1050nm*** | | | | |
| Mounting | Aluminum, 2mm | | | | |
| Edge fashioning | Fabric tape, 10mm width | | | | |
| Chart size tolerances | Up to +/- 2 mm as they are handmade in-house and fabric tape is used | | | | |
| Service life | 3 years | | | | |
| Storage | Dark, dry, and free from harmful gas (e.g., formaldehyde or ozone). 20 °C and 25 °C with a humidity of $60\% - 65\%$ and no direct sunlight at any time. | | | | |
| Scope of delivery | Test chart, acceptance protocol | | | | |

Miscellaneous

| Evaluation / Assessment | RAW recommended, software based analysis, supported by iQ-Analyzer-X |
|------------------------------|--|
| Reference data iQ-Analyzer-X | Individual reference file provided |
| Measurement device | X-Rite eXact <u>https://www.image-</u> engineering.de/content/products/charts/IE_reference_data_accuracy.pdf |
| Standards | In respect to ISO 12233 |
| Accessories | Chart case, magnetic tape |
| Terms & Conditions | image-engineering.de/terms-and-conditions |

* if chart fills 1/3 image height the chart can be used with a camera of minimum/maximum sample rate, stated in mega pixel (MP)

** HDTV ~ 2.1 MP, 4K ~ 8.3 MP, 8K ~ 33 MP

*** the existing measurement tools have a range up to a maximum of 1050nm, therefore a specification of longer wavelengths is not possible



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TE283CA250225