



Overview

Product name	<input type="checkbox"/> TE269A V2 <input type="checkbox"/> TE269B V2 <input type="checkbox"/> TE269C V2 <input type="checkbox"/> other: _____
Principle	Transparent gray scale test chart to determine the OECF, noise, SNR and dynamic range especially of digital high dynamic range cameras.

Features

OECF

Type/s of pattern	gray scale, circular arranged (most optical systems are rotationally symmetric so all patches will be affected in the same way by shading)
Contrast	TE269A / TE269B: 1,000,000:1 / 120 dB / 20 f-stops TE269C: 5,000,000:1 / 134 dB / 22 f-stops <input type="checkbox"/> other: _____
Quality	<input type="checkbox"/> Standard version <input type="checkbox"/> X-version
Number of steps	36
Arrangement of steps	TE269A V2: according to ISO 14524 TE269B V2: Image Engineering's version shifts more steps to higher density levels TE269C V2: according to upcoming IEC 62676-5 standard
Values that can be gathered from analysis	<ul style="list-style-type: none"> • OECF / gamma curve • dynamic range • noise • temporal noise • visual noise • SNR • ISO speed of the camera



General description hardware

Type	transmissive				
Aspect ratio	16:9 (can be used for other aspect ratios without restrictions)				
Chart size [W x H x D]		W [mm]	H [mm]	D [mm]	
	<input type="checkbox"/> D280	360	280	4.6	
	<input type="checkbox"/> other				
Picture size		4:3		16:9	
		W [mm]	H [mm]	W [mm]	H [mm]
	<input type="checkbox"/> D280	280	210	280	157.5
	<input type="checkbox"/> other				
Patch size	16 x 16 mm metal frame dimension				
Material	photographic film				
Mounting	black anodized aluminum metal frames				
Edge protection	fabric tape				
Service life	3 years				
Scope of delivery	test chart, stable cardboard envelope to store the chart, air blower, acceptance protocol				

Miscellaneous

Evaluation / Assessment	supported by iQ-Analyzer
Standards	<p>ISO 14524:2009 Methods for measuring opto-electronic conversion functions (OECFs) (TE269A V2 only)</p> <p>ISO 15739:2013 Noise measurements</p> <p>ISO 12232:2006 Determination of exposure index, ISO speed ratings, standard output sensitivity, and recommended exposure index</p> <p>IEC 62676-5 Video surveillance systems for use in security applications – Part 5: Data specifications and image quality performance for camera devices, this chart is adapted to the postulated requirements. (TE269C V2 only; standard not yet published)</p>
Accessories	PCR Krochmann Radiolux 111: luminance meter (tele-luminance meters can only be used in combination with a mask that covers the whole chart except the measured patch).