

The Putora Sharpness Indicator Instructions

About the Sharpness Indicator.

Description

The Sharpness Indicator is the most advanced and accurate test chart available. Any photographer will be able to accurately evaluate the sharpness and resolution of all types of motion picture, video, and still camera.

The Sharpness Indicator is made up of test-targets with concentric circles printed on a Reference Field Level background. The background has the same reflectance as the average reflectance of the targets. This means that when a target appears to blend with the background then, it indicates that that target is beyond the sharpness of the system being tested.

The concentric circles that make up each of the test targets on the Sharpness Indicator are calibrated in the degree of sharpness (DS) and represent the following graduated pairs of lines per millimeter:

Target	Lines per mm*
DS 1	10
DS 2	13.3
DS 3	18
DS 4	23.5
DS 5	31.3
DS 6	42
DS 7	55.5
DS 8 <small>(on Sharpness Indicator type 7&9 only)</small>	73.6
DS 9 <small>(on Sharpness Indicator type 7&9 only)</small>	97

* The information in this table is valid when the distance between the film plane and the Sharpness Indicator is measured using "60 times" formula. (Exactly it should be 60+1.) The "60 times" formula is explained under the section titled "Evaluate the degree of sharpness using negative film."

The value of all the targets may be shifted one step up by multiplying the recommended distance by 1.33 and DS 1 changes to DS 2, and so on. For two steps up, multiply by 1.77. If the distance is doubled, multiply the number of lines per millimeter by 2.