

Quality Control System

Lens inspection standard:UC Surface standard

Note: Smax is the maximum vertex degree on the meridian plane represents the value of absolute value.

Note: for example: Coke degree: $+0.50/-2.50 \times 20$. Standard prism degree is less than 2.00Δ .

The calculation method of the degree of prism is as follows:

This prescription, the main of the two meridian plane focimeter were $+0.50D$ and $-2.00D$, the maximum absolute value of meridian plane focimeter is $2.00D$.

So, Tolerance of horizontal prism is $\pm (0.25 + 0.1 \times 2.00) = \pm 0.45\Delta$.

The vertical prism degree allows the difference between is $\pm (0.25 + 0.05 \times 2.00) = \pm 0.35\Delta$.

1. Quality of finished lens substrate

In the reference point as the center, the diameter of 30mm cannot exist within the region affecting the eyesight of Huo Guang, defects in conformity with the following table. (There are no more than 6 defects in one piece)

< The publication of the surface flaws allows for deviations >

Defect Item	A Grade	B Grade
Point	No allowed in No.1 area	Allowed two highlights $\leq \phi 0.1\text{mm}$ out of the 20mm in No.1 centre, three gray points $\leq \phi 0.3\text{mm}$, but not concentrate
	Allowed three gray points which $\leq \phi 0.15\text{mm}$ in No.2 area, but not concentrate	Allowed two highlights $\leq \phi 0.20\text{mm}$ in No.2 area, three gray points $\leq \phi 0.25\text{mm}$, but not concentrate
	Allowed two highlights and three gray points which $\leq \phi 0.20\text{mm}$ in No.3 area, but not concentrate	Allowed two highlights $\leq \phi 0.30\text{mm}$ in No.3 area, three gray points $\leq \phi 0.4\text{mm}$, but not concentrate
Strip	No allowed in No.1 area	Allowed one light scratch $\leq \phi 0.15 \times 3\text{mm}$ out of 30mm in No.1 area
	Allowed two not concentrate light scratches which $\phi 0.15 \times 3\text{mm}$ in No.2 area	Allowed two $\leq \phi 0.15 \times 5\text{mm}$ in No.2 area
	Allowed two not concentrate light scratches which $\phi 0.15 \times 5\text{mm}$ in No.3 area	Allowed two light injury $\leq \phi 0.30 \times 5\text{mm}$ in No.3 area
Impurity	Not allowed	Allowed one $\leq \phi 0.5 \times 5\text{mm}$ in No.2 area
Feather	Not allowed	Allowed one 2.0mm in two region close to three area
Watermark	Not allowed	Allowed one $\leq \phi 0.5\text{mm}$ in No.3 area
Liner seal	Not allowed	Allowed one $\leq \phi 0.5 \times 5\text{mm}$ in No.3 area
Bubble / collapse	Not allowed	Not allowed

No.1: $\phi 30\text{mm}$ is optical center, area except two / three

No.2: From the ring region of the reference point 10mm in the three region

No.3: Outer ring region of edge 5mm

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