

pvCal Halcon 12 Glass

Halcon 12 compatible calibration targets for accurate & precise measurements



Chrome pattern (dark brown) printed on flat glass, ideal for backlight applications

Soda lime glass 3.0 mm thick

- surface roughness <math><0.025\ \mu\text{m}</math>
- surface flatness: 5-10 μm
- transmission (420~700nm) >85%

Standard coating: low reflective dark brown chrome

- reflectivity <math><25\%</math>@550 nm
- optical density: >3
- no pinhole bigger than 0.001 mm

Overall accuracy: +/-1 μm

Dot diameter tolerance: +/-0.001 mm

Dot spacing tolerance: +/-0.001 mm center to center

Thermal expansion coefficient: <math><100 \times 10^{-7}</math> / °C

Accuracy from target edge to pattern: +/-0.05 mm

Dimension & thickness tolerance: +/-0.1 mm

Beveled edges: +/-1° angle

| | | | | | | | | | |
|-----------------|----------|-------|-------|-------|-------|-------|--------|--------|---------|
| Pattern size mm | 8.3x6.2 | 17x13 | 33x25 | 50x37 | 66x50 | 83x62 | 100x75 | 115x86 | 132x100 |
| Dot diameter mm | 0.25 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 |
| Dot array | 13x15 | 13x15 | 13x15 | 13x15 | 13x15 | 13x15 | 13x15 | 13x15 | 13x15 |
| Dot spacing mm | 0.5 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| Dimensions mm | 10.3x8.2 | 19x15 | 40x30 | 55x45 | 68x55 | 92x72 | 105x80 | 125x96 | 140x110 |

Larger dimensions /patterns available on request.