

## pvCal Halcon 12 Ceramic

Halcon 12 compatible calibration targets for accurate & precise measurements



### Chrome pattern (blue matte) printed on ceramic, ideal for front light applications

White ceramic substrate 1.0 mm thick

- surface roughness 0.3-0.4  $\mu\text{m}$
- surface flatness: <100: 10-30  $\mu\text{m}$ , 100-150 mm: 60-100  $\mu\text{m}$

Standard coating: blue matte chrome

- reflectivity <5%@632 nm
- coating thickness ~150nm
- no pinhole bigger than 0.001 mm

Overall accuracy: +/-2  $\mu\text{m}$

Dot diameter tolerance: +/-0.001 mm

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

Thermal expansion coefficient:  $7.2 \times 10^{-6} / ^\circ\text{C}$

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

Dimension & thickness tolerance: +/-0.1 mm

Sharp 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.