

Calibration Target Parameters for VIC-3D

Grid specifications and available sizes for the Correlated Solutions calibration target families used with VIC-3D. Dot pattern parameters — number of dots, grid offsets, and the encoded length markers in X and Y — are fixed per family; dot spacing and board dimensions scale with the selected target size.

8x6 Low-Resolution Calibration Targets

The 8x6 low-resolution target uses a sparse dot grid intended for lower-resolution sensors and rapid setup. All sizes share the grid pattern below; the dot spacing scales with the board so that the full 8x6 grid fills the field of view.

GRID SPECIFICATIONS

Number of dots in X	8
Number of dots in Y	6
Offset in X	2
Offset in Y	2
Length in X	5
Length in Y	3

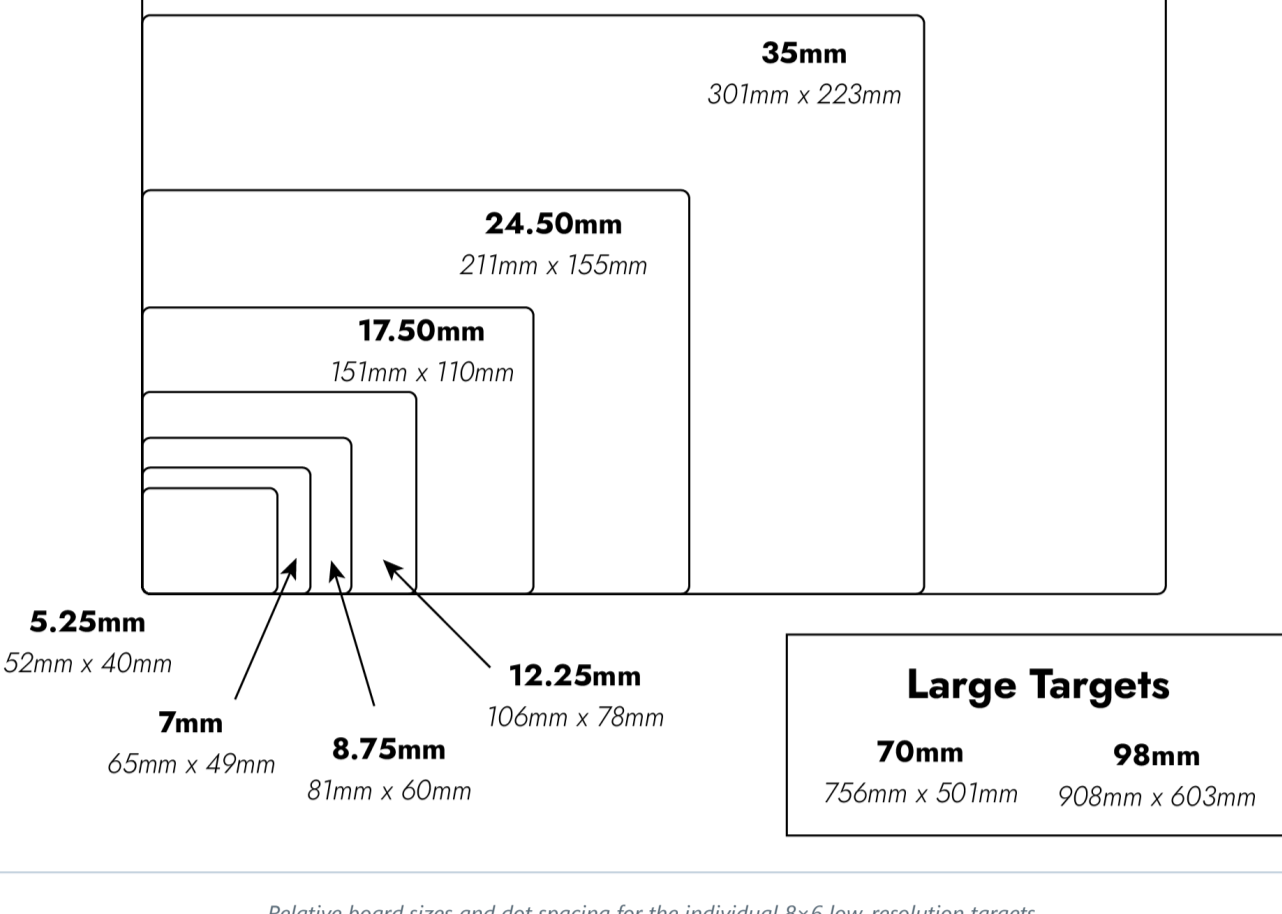
AVAILABLE SIZES

Dot Spacing (Pitch)	Board Dimensions
5.25 mm	52 × 40 mm
7 mm	65 × 49 mm
8.75 mm	81 × 60 mm
12.25 mm	106 × 78 mm
17.50 mm	151 × 110 mm
24.50 mm	211 × 155 mm
35 mm	301 × 223 mm
49 mm	394 × 281 mm

LARGE TARGETS

Dot Spacing (Pitch)	Board Dimensions
70 mm	756 × 501 mm
98 mm	908 × 603 mm

Please see the diagram below for size details on the individual 8x6 Low-Resolution targets.



Relative board sizes and dot spacing for the individual 8x6 low-resolution targets.

14x10 Standard Calibration Targets

The 14x10 standard-resolution target is the general-purpose grid for most VIC-3D applications. The dot spacing varies with the selected board size as listed below.

GRID SPECIFICATIONS

Number of dots in X	14
Number of dots in Y	10
Offset in X	3
Offset in Y	3
Length in X	9
Length in Y	5

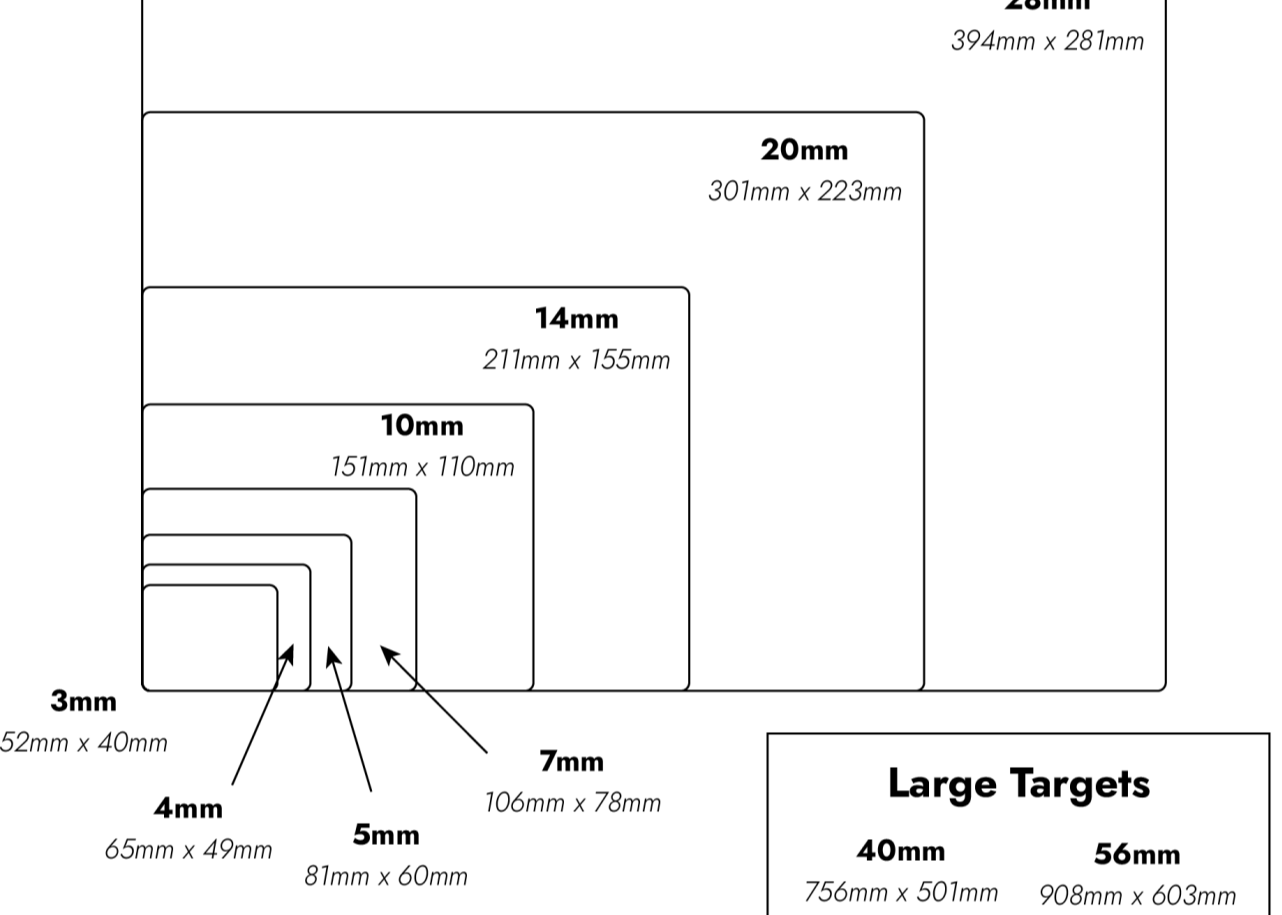
AVAILABLE SIZES

Dot Spacing (Pitch)	Board Dimensions
3 mm	52 × 40 mm
4 mm	65 × 49 mm
5 mm	81 × 60 mm
7 mm	106 × 78 mm
10 mm	151 × 110 mm
14 mm	211 × 155 mm
20 mm	301 × 223 mm
28 mm	394 × 281 mm

LARGE TARGETS

Dot Spacing (Pitch)	Board Dimensions
40 mm	756 × 501 mm
56 mm	908 × 603 mm

Please see the diagram below for size details on the individual 14x10 Standard Resolution targets.



Relative board sizes and dot spacing for the individual 14x10 standard-resolution targets.

40x28 High-Resolution Calibration Targets

The 40x28 high-resolution target provides a dense dot grid for high-resolution sensors and demanding calibrations. The dot spacing varies with the selected board size as listed below.

GRID SPECIFICATIONS

Number of dots in X	40
Number of dots in Y	28
Offset in X	9
Offset in Y	8
Length in X	24
Length in Y	14

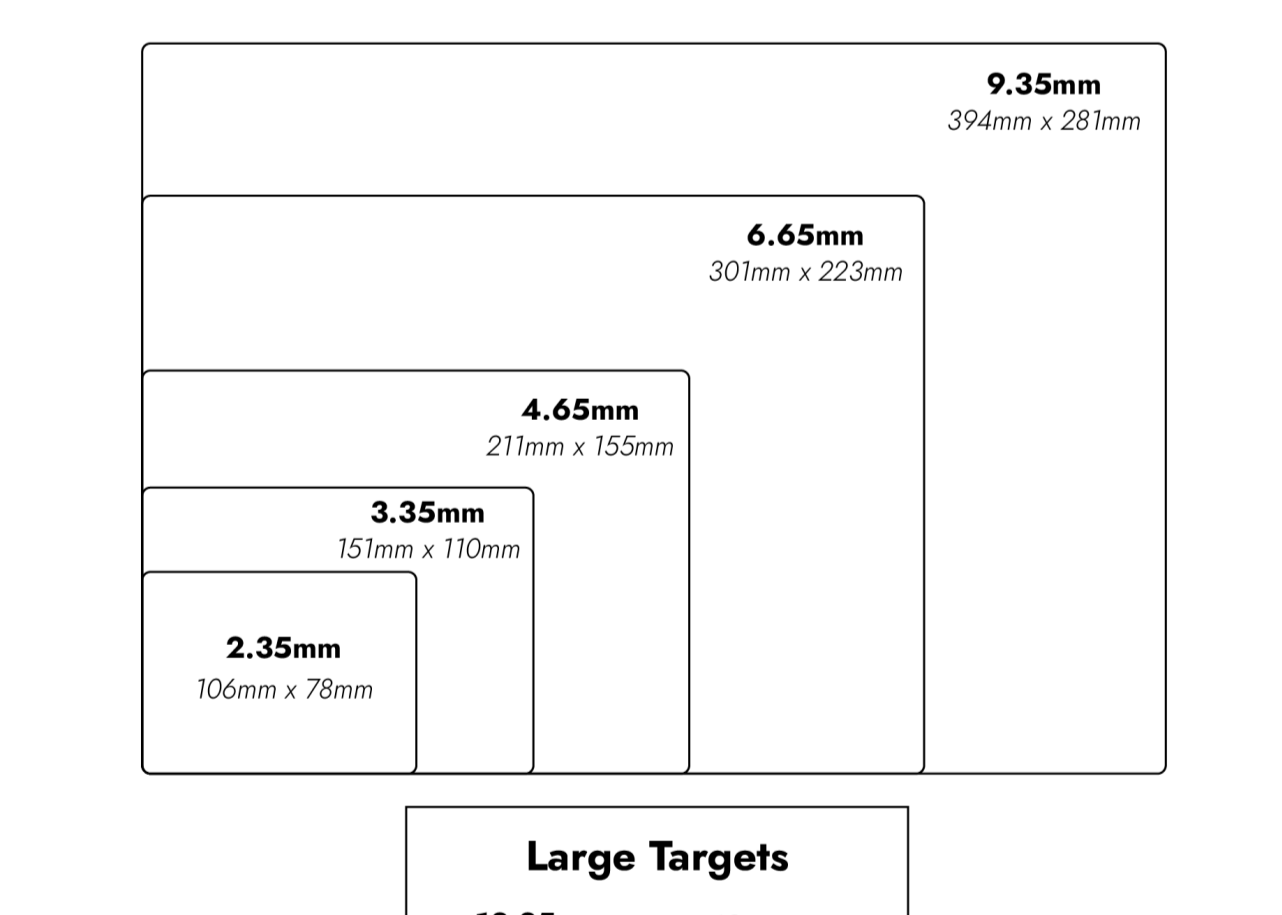
AVAILABLE SIZES

Dot Spacing (Pitch)	Board Dimensions
2.35 mm	106 × 78 mm
3.35 mm	151 × 110 mm
4.65 mm	211 × 155 mm
6.65 mm	301 × 223 mm
9.35 mm	394 × 281 mm

LARGE TARGETS

Dot Spacing (Pitch)	Board Dimensions
13.35 mm	756 × 501 mm
18.65 mm	908 × 603 mm

Please see the diagram below for size details on the individual 40x28 High-Resolution targets.



Relative board sizes and dot spacing for the individual 40x28 high-resolution targets.

Standard Glass Calibration Targets

The standard glass calibration targets are precision chrome-on-glass grids for small fields of view where dimensional stability and flatness are critical. Two targets are available: the 1" Calibration Target and the 4-in-1 Calibration Target, which combines four grids (A–D) on a single substrate.

1" CALIBRATION TARGET — GRID SPECIFICATIONS

Minimum FOV	25.00 mm
Pitch	3.00 mm
Number of dots in X	9
Number of dots in Y	9
Offset in X	3
Offset in Y	3
Length in X	3
Length in Y	4

4-IN-1 CALIBRATION TARGET

GRID SPECIFICATIONS (ALL GRIDS)

Number of dots in X	9
Number of dots in Y	9
Offset in X	3
Offset in Y	3
Length in X	3
Length in Y	4

GRIDS A–D — MINIMUM FOV & PITCH

Grid	Minimum FOV	Pitch
A	14.24 mm	1.78 mm
B	10.72 mm	1.34 mm
C	7.12 mm	0.89 mm
D	3.60 mm	0.45 mm

Microscope Glass Calibration Targets

The microscope glass calibration targets are chrome-on-glass grids for the very small fields of view encountered in microscopy. Two targets cover the full range: the Grid ABCH target (Microscope Calibration Target 1) and the Grid DEFG target (Microscope Calibration Target 2). Both share the dot pattern below; each individual grid has its own pitch and size.

GRID ABCH TARGET — MICROSCOPE CALIBRATION TARGET 1

GRID SPECIFICATIONS (ALL GRIDS)

Number of dots in X	15
Number of dots in Y	15
Offset in X	6
Offset in Y	4
Length in X	5
Length in Y	7

GRIDS A, B, C, H — PITCH & SIZE

Grid	Pitch	Size
A	0.0300 mm	0.435 mm
B	0.0450 mm	0.653 mm
C	0.0730 mm	1.059 mm
H	0.7000 mm	10.150 mm

GRID DEFG TARGET — MICROSCOPE CALIBRATION TARGET 2

GRID SPECIFICATIONS (ALL GRIDS)

Number of dots in X	15
Number of dots in Y	15
Offset in X	6
Offset in Y	4
Length in X	5
Length in Y	7

GRIDS D, E, F, G — PITCH & SIZE

Grid	Pitch	Size
D	0.1100 mm	1.595 mm
E	0.1700 mm	2.465 mm
F	0.2800 mm	4.060 mm
G	0.4400 mm	6.380 mm