

Technical drawing of the CV-CX-120X84X79W-M12 camera module, showing the front view, side view, and connector details.

Front View Dimensions:

- Overall Width: 120
- Overall Height: 84
- Effective FOV Width: 50
- Effective FOV Height: 50
- Mounting Hole Pattern: 4xM4 (4 holes)
- Internal Dimensions: 60 (width), 84 (height), 43 (width), 50 (height)

Side View Dimensions:

- Overall Width: 120
- Overall Height: 84
- Effective FOV Width: 50
- Effective FOV Height: 50
- Mounting Hole Pattern: 4xM4 (4 holes)
- Internal Dimensions: 60 (width), 84 (height), 43 (width), 50 (height)

Connector Details:

- Connector Type: M12 Male Connector
- Pin Configuration: 4 pins (1, 2, 3, 4)
- Pin Assignments: 1 (+V), 2 (NC), 3 (-V), 4 (NC)
- Wire Colors: Red/Brown (1), Black/Blue (3)

Table 1: Tolerances

CLASS	NOMINAL LENGTH						PERPENDICULARITY TOLERANCE
	L ≤ 10	10 < L ≤ 30	30 < L ≤ 100	100 < L ≤ 300	300 < L ≤ 1000	1000 < L ≤ 3000	
H	±0.02	±0.05	±0.1	±0.2	±0.3	±0.4	
K	±0.05	±0.1	±0.2	±0.4	±0.6	±0.8	

Table 2: Tolerances

CLASS	NOMINAL LENGTH ON SHORTER SIDE				PERPENDICULARITY TOLERANCE
	L ≤ 100	100 < L ≤ 300	300 < L ≤ 1000	1000 < L ≤ 3000	
H	±0.2	±0.3	±0.4	±0.5	
K	±0.4	±0.6	±0.8	±1.0	

Table 3: Specifications

Absolute Max. Rating / 最大定格		DC24V
Total Power / 消費電力合計		5.1W
Mass / 質量		-

Table 4: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 5: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 6: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 7: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 8: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 9: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 10: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 11: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 12: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 13: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 14: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 15: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 16: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 17: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 18: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 19: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 20: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 21: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 22: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 23: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 24: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 25: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 26: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 27: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 28: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 29: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 30: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 31: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 32: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 33: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 34: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 35: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 36: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 37: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 38: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 39: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 40: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 41: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 42: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 43: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 44: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 45: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 46: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 47: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 48: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 49: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 50: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 51: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 52: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 53: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 54: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 55: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 56: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 57: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 58: Dimensions

CLASS	STANDARD DIMENSION RANGE				CHAMFER TOLERANCE
L < 0.2	0.2 ≤ L ≤ 0.5	0.5 < L ≤ 3	3 < L ≤ 6	6 < L	
f	IN DRW.	±0.1	±0.2	±0.5	±1.0
m					

Table 59: Dimensions