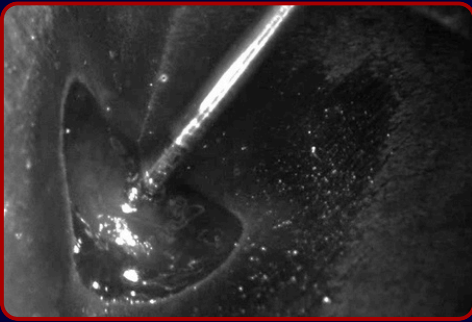




CAVITAR
VALUE IN SIGHT

Cavitar Welding Camera



FOR
**DEMANDING
WELDING**
PROCESSES

Cavitar Welding Camera

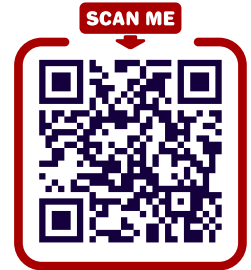
Value in Sight

ArcLessVision revolutionizes welding visibility

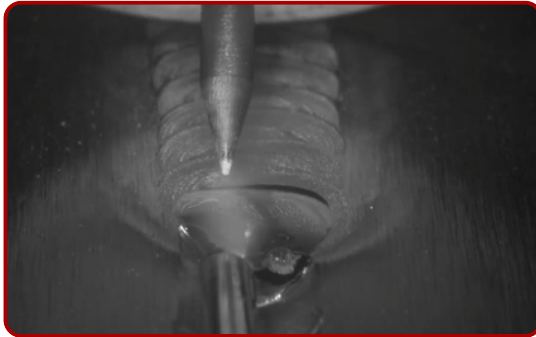
See welding details for the first time.

Analyze real-time data with precision.

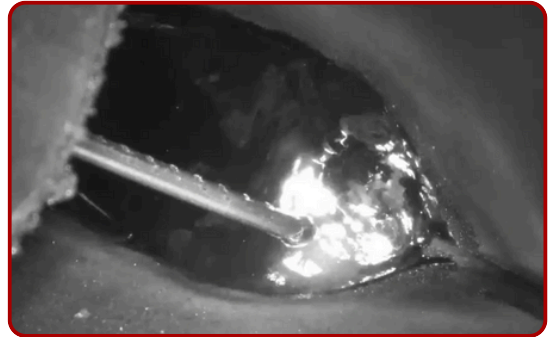
Make confident decisions instantly.



TIG



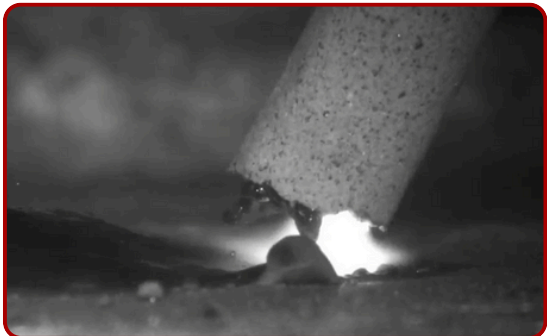
MIG/MAG



TIP TIG



STICK



Cavitar Welding Camera

Industry Benefits



Fast Error Detection



Faster Set-up Time



Robust For 24/7 Use



Remote Operation



AI/Cloud Integration



Improved Ergonomics



Automation Integration



No Toxic Fumes



Quality Documentation



Welder Eye Safety

Cavitar Welding Camera

C300 Series

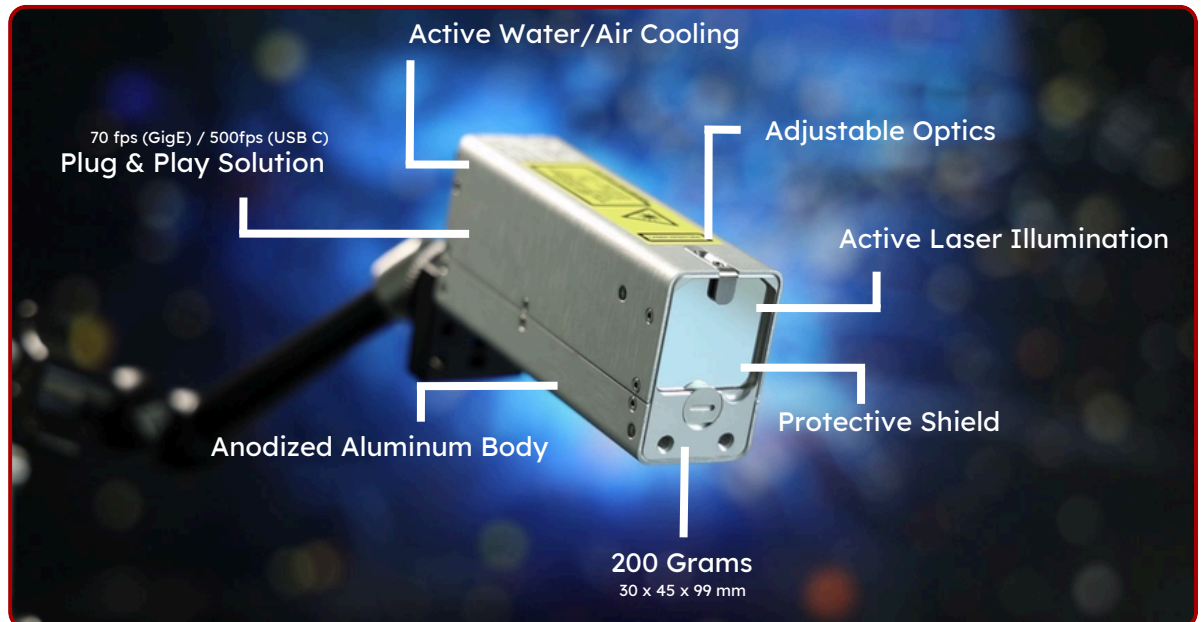
Most compact solution

C300

GigE Version, Baumer Camera Electronics

C350

USB3, High-Speed Version, Baumer Camera Electronics



Main features	C300	C350
	Most compact design	Most compact design
	Baumer electronics & SDK	Baumer electronics & SDK
Connectors	M12 GigE, M8 power	USB Micro-B, M8 power
Sensor resolution (pixel)	1440x1080	1440x1080
Max frame rate full resolution (fps)	70	200
Max frame rate @ 2x2 binning 720x540 pixels (fps)	100	500
Working distance, WD (mm)	150...300	150...300
Field of view (mmxmm) vs WD (mm)	28x21@150 40x30@200 62x47@300	28x21@150 40x30@200 62x47@300
Camera interface	GigE	USB3
Illumination	640nm laser, class 3R	640nm laser, class 3R
Size (WxHxL, mmxmmxmm) *1	30x45x99	30x45x99
Weight (g)	200	200
Operating ambient temperature (°C)	10...300 (with cooling and insulation, non-condensing)	10...300 (with cooling and insulation, non-condensing)
Cooling options	passive or active (air/liquid circulation)	passive or active (air/liquid circulation)

*1 excluding connectors

Cavitar Welding Camera

C400 Series

Most robust solution

C400-H

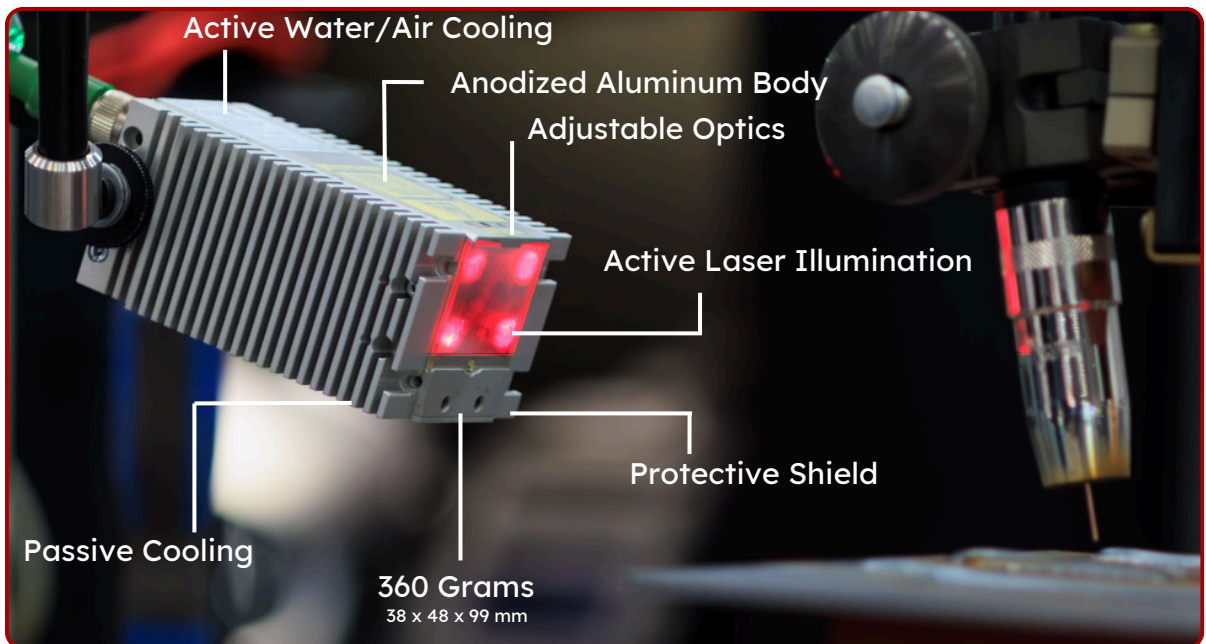
GigE Version, Hikrobot Camera Electronics

C400-B

GigE Version, Baumer Camera Electronics

C400-B-Wide

GigE Version, Baumer Camera Electronics, Wide Angle Optics



Main features	C400-B	C400-B-Wide	C400-H
	Most robust design - IP64	Most robust design - IP64 Wide angle	Most robust design - IP64
	Baumer electronics & SDK	Baumer electronics & SDK	Hikrobot electronics & SDK
	Easy focus adjustment	Easy focus adjustment	Easy focus adjustment
Connectors	M12 GigE, M12 power connectors	M12 GigE, M12 power connectors	M12 GigE, M12 power connectors
Sensor resolution (pixel)	1440x1080	1440x1080	1440x1080
Max frame rate full resolution (fps)	70	70	70
Max frame rate @ 2x2 binning 720x540 pixels (fps)	100	100	100
Working distance, WD (mm)	150...300	100...300	150...300
Field of view (mmxmm) vs WD (mm)	28x21@150 40x30@200 62x47@300	51x38@100 96x72@200 144x108@300	28x21@150 40x30@200 62x47@300
Camera interface	GigE	GigE	GigE
Illumination	640nm laser, class 3R	640nm laser, class 3R	640nm laser, class 3R
Size (WxHxL, mmxmmxmm) *1	38x48x99	38x48x99	38x48x99
Weight (g)	350	350	350
Operating ambient temperature (°C)	10...300 (with cooling and insulation, non-condensing)	10...300 (with cooling and insulation, non-condensing)	10...300 (with cooling and insulation, non-condensing)
Cooling options	passive or active (air/liquid circulation)	passive or active (air/liquid circulation)	passive or active (air/liquid circulation)

*1 excluding connectors

Value In Sight



See through the arc with #ArcLessVision

- High-quality visualization of welding processes in real-time
- Clear view with all details without disturbing process light
- Reveals the details of the welding process core at once (e.g. melt pool, keyhole, defects)



Better quality control through real-time view

- Detection of problems and defects early in the process
- Alignment of the welding torch to the gap, observe melt pool behavior, see the filler material, etc.
- Process documentation for quality assurance



Save time and resources -Less scrap and higher yield

- Early defect detection for immediate process corrections
- Savings in materials, time and work
- Improved manufacturing repeatability and traceability
- Savings in process set-up and problem-solving time
- Minimized downtime or lost production time



www.cavitar.com

Cavitar Ltd
Tampere, Finland

www.cavitar.com
Tel. +358 3 447 9330

