

ART's unique cave cameras are designed specifically for multi-sided projections (e.g. CAVE or I-Space). The camera lenses look through small holes drilled into the corners of the projection screens and make the rest of the tracking system disappear within the virtual landscape.



### **Technical Data**

recinition Data			
General Camera Data			
Image sensor	1280 x 1024 Pixel		
Frame rate (sensor)	150 Hz @ full frame, up to 300 Hz with reduced field of view		
Image processing	integrated		
Status indicator	status LEDs (camera body); dimmable		
IR source	high power LEDs, 850 nm, adjustable intensity		
	(Exempt Group according to IEC62471-1)		
Data transfer, sync and power supply	single cable solution;		
(camera body)	Gigabit Ethernet PoE+ (IEEE 802.3at-2009) via max. 100 m cable (CAT5)		
Head of the camera	connected to the camera body via 0.6 – 0.8 m flexible cable (different options		
	available)*		
	* The head cannot be separated from the cable		
Operating conditions			
Cooling	passive, noiseless		
Operating temperature	0 - 38°C		
Relative humidity	5 - 85% (non-condensing)		
Power consumption	12 W		
Dimensions			
Size (W x H x D)	Camera head: length approx. 67 mm, Ø 36.5mm		
	Camera body: approx 100 x 100 x 55 mm		
Weight	Camera head: approx. 0.2 kg		
	Camera body: approx. 0.5 kg		

Available lenses and field of view							
		Operation mode					
Compatible lenses		@ 150Hz	@ 240Hz	@ 300Hz			
	Sensor resolution (pixels)	1280 x 1024	1024 x 750	800 x 600			
4.0mm	Frustum [m³]	60	22	10			
	FoV (horiz. x vert.)	89° x 71°	71° x 52°	56° x 42°			
	Max. tracking range [m]**	3	2	1			

System latency			
4 cameras, 4 targets	Δ = 8.5ms	$\Delta$ = 6.0ms	$\Delta$ = 4.7ms
4 cameras, 10 targets	Δ = 9.4ms	$\Delta$ = 6.9ms	Δ = 5.5ms
8 cameras, 4 targets	Δ = 8.6ms	$\Delta = 6.1 \text{ms}$	Δ = 4.7ms
8 cameras, 10 targets	Δ = 9.6ms	$\Delta = 7.1 \text{ms}$	Δ = 5.7ms

#### Certifications

- CE
- FCC Part 15 Subpart B, Class A
- TÜV SÜD NRTL

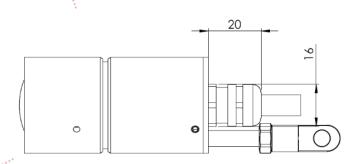
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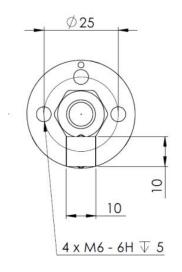
Contents are subject to change without notice.

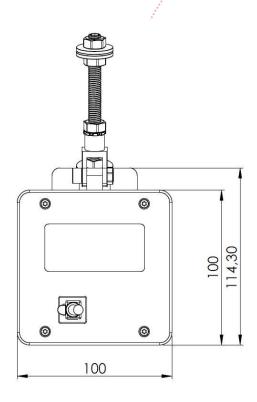


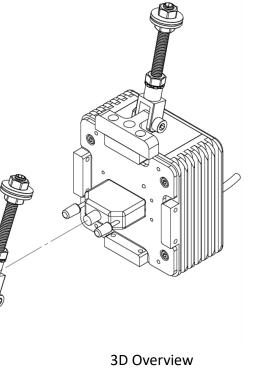
### **Technical Drawing**

all dimensions in [mm] unless otherwise specified

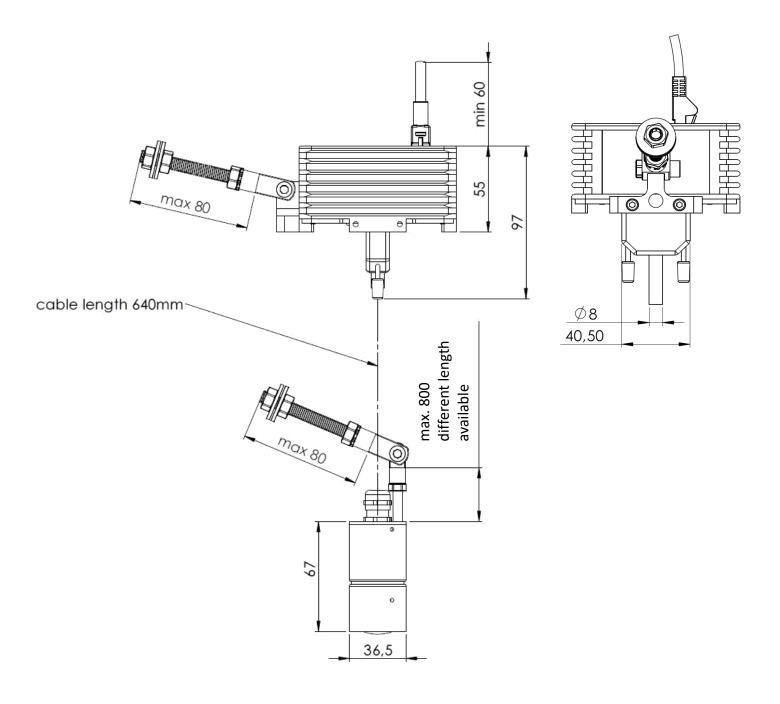






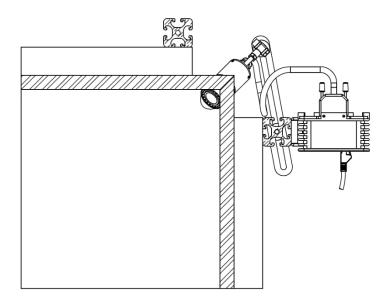


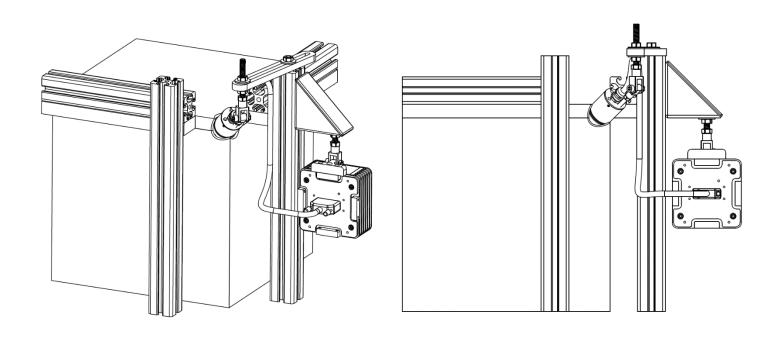






### Typical installation for CAVE





**Buildup-View**