AT7-80

ART▶
Advanced Realtime Tracking

High-precision tracking camera for large areas

AT7-80 is designed for long tracking ranges and delivers ART's consistent and renowned high quality and reliability.

Ideal for HMD arenas, precise measuring tasks, training & simulation or any other (large) projection systems.

Technical Data

General Camera Data	
Image sensor	2856 x 2848 Pixel, 8.13 MPix
Adjustable frame rate	Max. 450 Hz
Minimum Latency	2.7ms
Image processing	integrated
IR source	High power LEDs, 850 nm, adjustable in intensity (exempt group according to IEC62471-1)
Max. passive camera-to-marker range	21m[1]
Status indicator	RGB LED ring (easy to read indicator at high distances) 3-digit alphanumeric display 2 status LEDs all dimmable until off
Data transfer, sync and power supply	Gigabit Ethernet PoE+ (IEEE 802.3at-2009) max. 100 m cable (CAT5)
Mounting	ART D2 ceiling mount Tripod thread (x2); type 1/4-20 UNC x 12
Operating conditions	
Cooling	Passive, fanless
Operating temperature	0 - 35°C
Relative humidity	5 - 85% (non-condensing)
Max. power consumption	25 W
Dimensions	
Size (W x H x D)	Approx. 134 x 102 x 104 mm
Weight	Approx. 1.35 kg

Camera configuration		Operation modes		
Lenses		**@ 180 Hz**	**@ 300 Hz**	**@ 450 Hz**
	Sensor resolution (pixels)	2856 x 2848	2856 x 1632	2856 x 1024
4.8 mm	FoV (horiz. x vert.) [deg]	86 x 86	86 x 51	86 x 32
6.0 mm		72 x 72	72 x 41	72 x 25
8.0 mm		56 x 56	56 x 31	56 x 20
	Camera latency [ms]	5.8	3.7	2.7

Certifications
• CE
• FCC Part 15 Subpart B, Class B
• TÜV SÜD NRTL

[1] *measured with 12.7mm passive markers, centric distance, sensor gain of 4 and 8 mm lens*

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Technical Drawing

all dimensions in [mm] unless otherwise specified

134

102

status LEDs

RGB LED ring

alphanumeric display

28

8 x M4 ⊽ 7,50

2 x 1/4-20 UNC ⊽ 12

40,25

104