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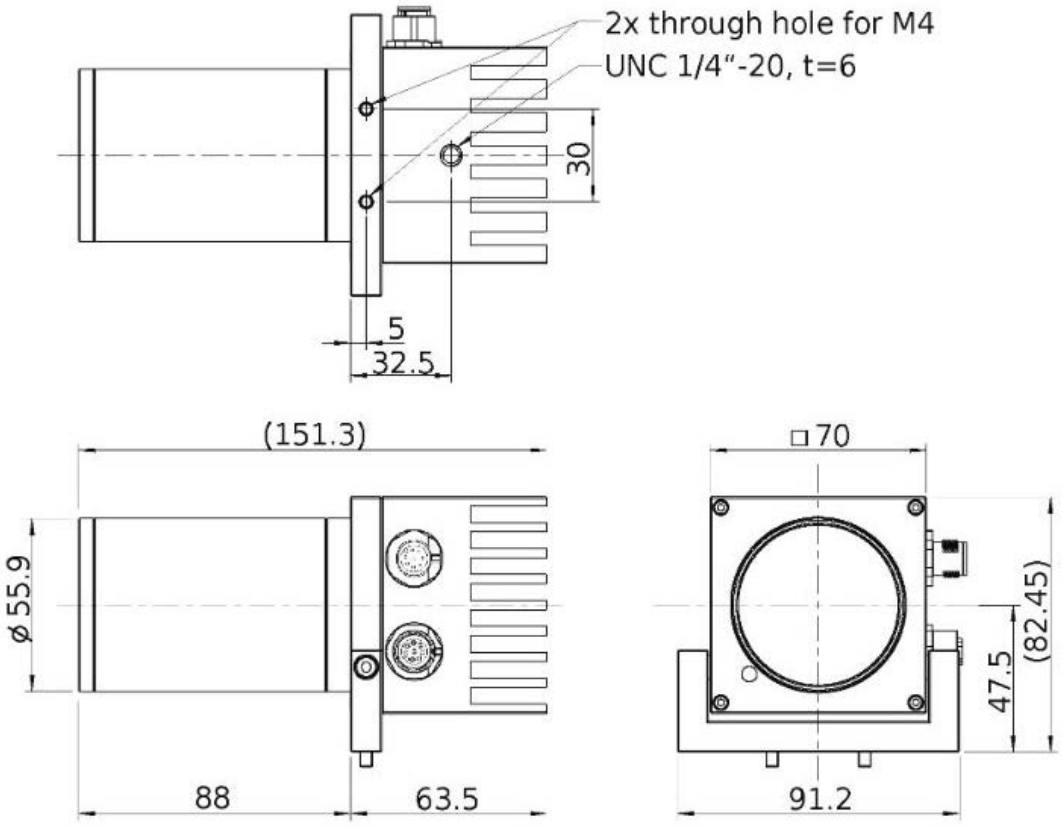
rc_randomdot Pattern Projector

Technical Specifications

The rc_randomdot pattern projector can be combined with any rc_visard, monochrome or color. It contains a special driver to ensure compatibility with Roboception's 3D stereo sensors. The scope of delivery includes the required C-mount lens and a short cable for its connection as well as a mounting bracket with screws to attach the projector directly to the rc_visard. Used in conjunction with the corresponding IOControl module (included with the sensor) and any optional picking module from the rc_reason software suite, the projector is particularly useful for pick applications with difficult objects or workspaces.

Illumination mode	Strobe
Wavelength	White (6000 K)
Working distance	500 mm to 3000 mm
Field of view	62° x 48° (diagonal 75°)
Lens (C-mount)	1", 12 mm, f min 1:1.4
Lens type	VS Technology VS-1214H1
Connectors	M12, 8 Pin, A-coded
Size (W x H x L)	70 mm x 70 mm x 152 mm
Weight	~ 660 g



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Power supply voltage	24 V (22 V to 29 V)
Max power consumption	44 W (peak) / 10 W (continuous mode) / 65 W (during exposure, incl. rc_visard)
Overcurrent protection	Supply must be fuse-protected to a maximum of 2 A
Temperature	Storage: -25° C to 70° C Operation: 0° C to 45° C
Relative humidity	20% to 80% , non-condensing
Vibration	2.5 g
Shock	25 g
Protection Class	IP 54
Electronical and safety standards	• EN 55015:2013 : Electromagnetic compatibility (EMC) Directive (2014/30/EU), Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment • CISPR 15:2013 + IS1:2013 + IS2:2013 : Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment • EN 61547:2009 : Equipment for general lighting purposes - EMC immunity requirements • EN 61000-6-2 : Electromagnetic compatibility (EMC): Immunity standard for industrial environments • EN 61000-6-4 : Electromagnetic compatibility (EMC): Emission standard for industrial environments • EN/IEC/UL 62368-1:2014 : Audio/Video, Information and Communication Technology Equipment - Safety Requirements • EN 61010-1 : Safety requirements for electrical equipment for measurement, control, and laboratory use • CAN/CSA-C22.2 No. 62368-1:2014 Audio/Video, Information and Communication Technology Equipment - Safety Requirements • EN 62471:2008 / IEC 62471:2008 : Photobiological safety of lamps and lamp systems • Compliant with FCC 47 CFR Part 15B:2017: Radio Frequency Devices • Compliant for Canada according to CAN ICES-005(B)/NMB-005(B)

Find more information on
doc.rc-randomdot.com

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