

■ Features

- Coaxial observation
- Coaxial temperature measurement (2color method available)
- Position locking with functioning



DDL coaxial unit A15185-111

■ Outline

This is a coaxial unit to be mounted on a Direct Diode Laser (hereinafter "DDL") equipped with irradiation unit A14132 series. The DDL coaxial unit A15185-111 can be equipped with thermometers and CCD cameras for coaxial thermal measurement and coaxial observation.

* The thermometer and CCD camera must be prepared separately by the customer.

■ Series configuration

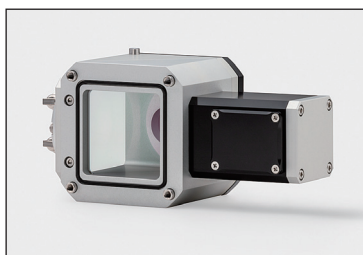
Product name	Type no.	Specification
DDL coaxial unit	A15185-111	Coaxial temperature measurement, coaxial observation supported
	A15185-11N	Coaxial temperature measurement supported
Expansion unit	A15185-000-B	Coaxial observation supported

DDL coaxial unit A15185-111



=

DDL coaxial unit A15185-11N



+

Expansion unit A15185-000-B



DDL Coaxial Unit A15185 series

General specification

Parameter	Value	Unit
Operating temperature	+5 to +40	°C
Storage temperature *1 *2	0 to +50	°C
Recommended storage temperature *3	+5 to +30	°C
Relative operating humidity *4	≤60	%

*1 Drain water from the DDL coaxial unit if there is a possibility of freezing.

*2 Temperature considering non-operation and transportation after installation in equipment, etc.

*3 The temperature at which this product is to be stored prior to installation in equipment, etc.

*4 No condensation

Specification

DDL coaxial unit

Parameter			Value		Unit
			A15185-11N	A15185-111	
Operation mode			CW		—
Wavelength range			940 ± 40		nm
Maximum Incident light power			3		kW
Laser beam transmission efficiency			≥90		%
Cooling			Water cooling		—
Coolant condition (cooling water inlet)	Conductivity *1		0.5 to 1.2		μS/cm
	Particles		10		μm
	Temperature		+15 to +30		°C
	Pressure		0.7		MPa
	Flow rate		0.6 to 3		L/min
	Compatible hose	Outer diameter	Approx. φ6		mm
		Inner diameter	Approx. φ4		mm
Expansion unit connection			1.035"-40UNS (female screw)		—
Dimensions (W × H × D)			Approx. 146 × Approx. 79 × Approx. 71	Approx. 206 × Approx. 79 × Approx. 71	mm
Weight			Approx. 1	Approx. 1.3	kg
Protective function			Fall prevention function		—

*1 Distilled water can also be used.

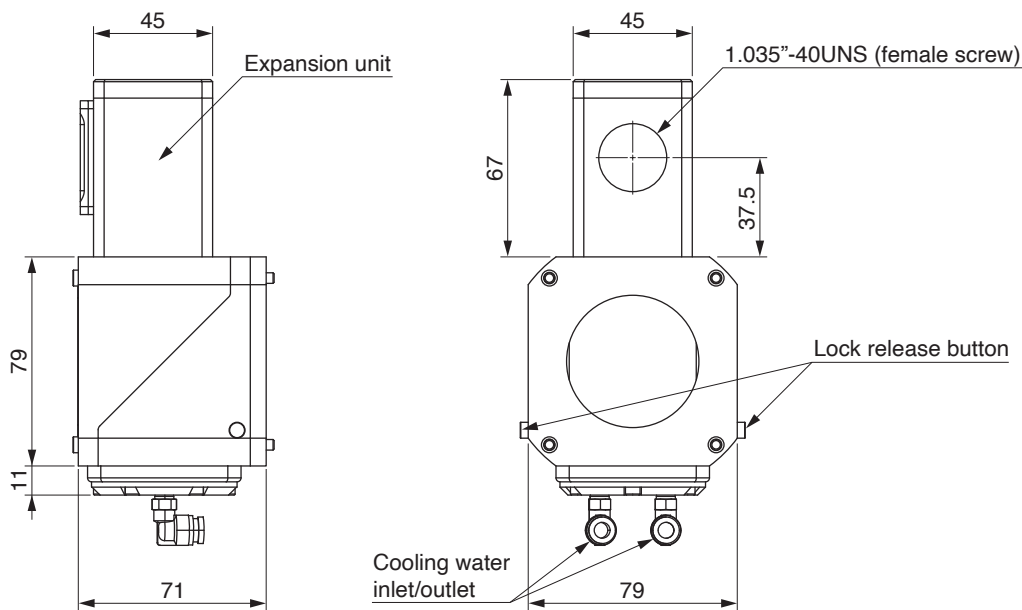
Expansion unit

Parameter	Value	Unit
Expansion unit connection	1.035"-40UNS (female screw)	—
Dimensions (W × H × D)	Approx. 79 × Approx. 45 × Approx. 45	mm
Weight	Approx. 300	g

DDL Coaxial Unit A15185 series

Figure 1: Dimensions (unit : mm)

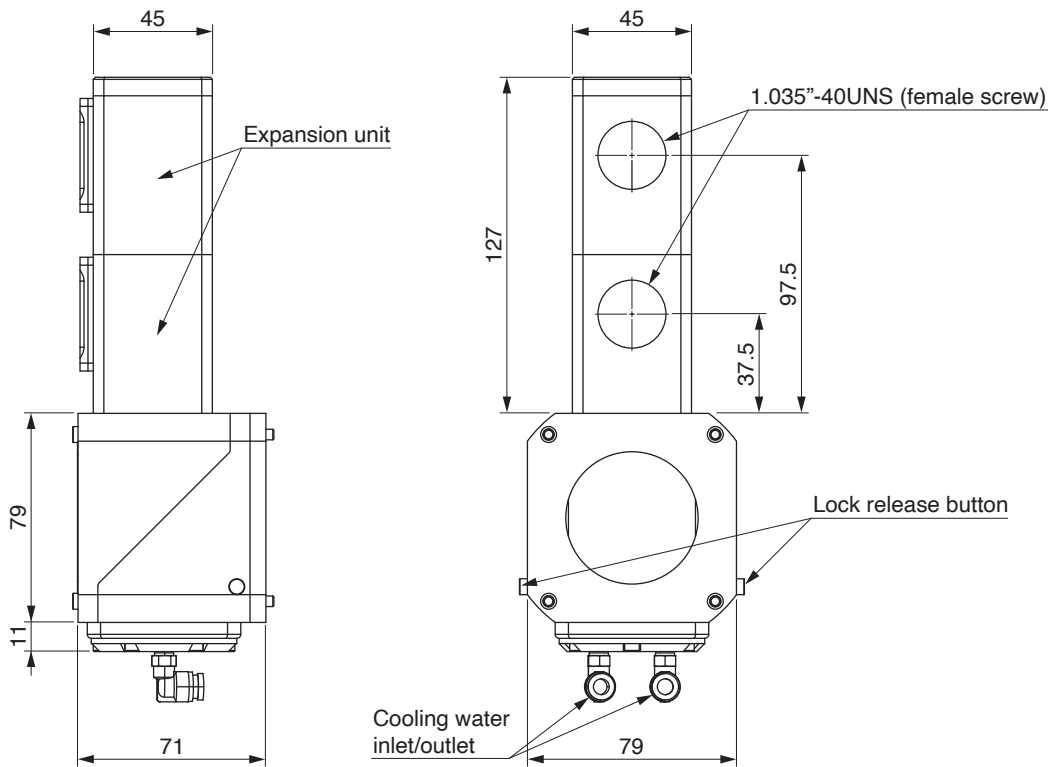
● DDL coaxial unit A15185-11N



* Tolerances without indication are ISO2768-1-m.

LEF3F0009-55-A

● DDL coaxial unit A15185-111

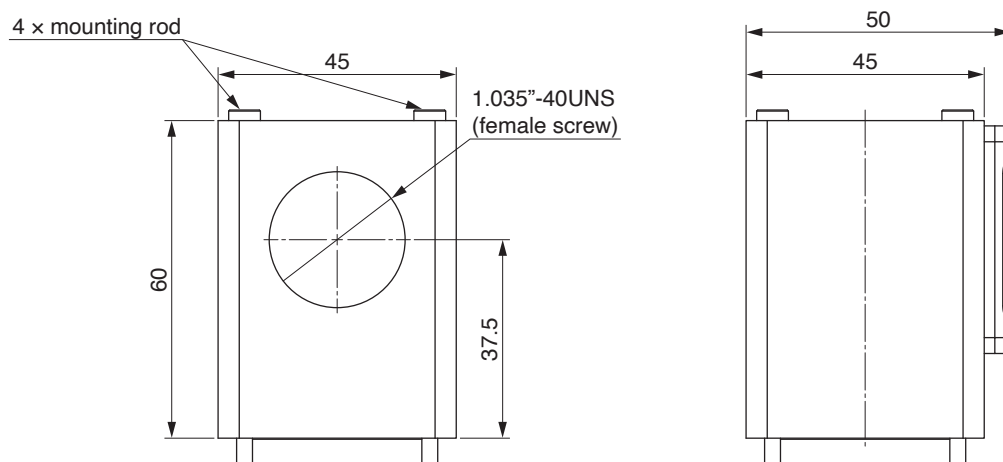


* Tolerances without indication are ISO2768-1-m.

LEF3F0009-56-A

DDL Coaxial Unit A15185 series

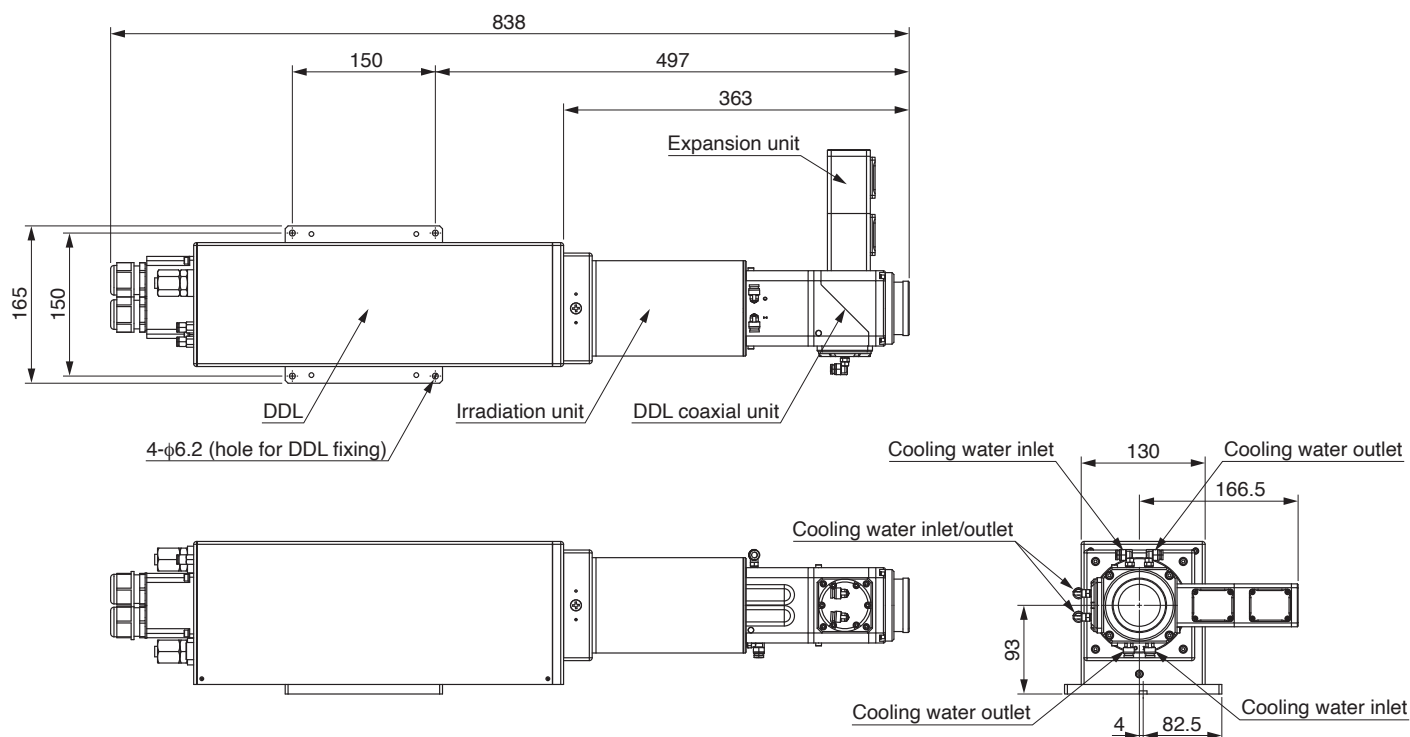
● Expansion unit A15185-000-B



* Tolerances without indication are ISO2768-1-m.

LEF3F0009-57-A

● Mounting diagram on DDL (equipped with DDL coaxial unit A15185-111)



* Tolerances without indication are ISO2768-1-m.

LEF3F0009-58-A

DDL Coaxial Unit A15185 series

● Information described in this material current as of April 2021. Specifications are subject to change without notice.

HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

Laser Division, Business Promotion G.

314-5, Shimokanzo, Iwata City, Shizuoka Pref., 438-0193, Japan, Telephone: (81)539-62-5248, Fax: (81)539-62-2205

U.S.A.: HAMAMATSU CORPORATION: 360 Foothill Road, Bridgewater, NJ 08807, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218

Germany: HAMAMATSU PHOTONICS DEUTSCHLAND GMBH: Arzbergerstr. 10, 82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-265-8 E-mail: info@hamamatsu.de

France: HAMAMATSU PHOTONICS FRANCE S.A.R.L.: 19 Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10 E-mail: infos@hamamatsu.fr

United Kingdom: HAMAMATSU PHOTONICS UK LIMITED: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire, AL7 1BW, UK, Telephone: (44)1707-294888, Fax: (44)1707-325777 E-mail: info@hamamatsu.co.uk

North Europe: HAMAMATSU PHOTONICS NORDEN AB: Torshamnsgatan 35, 16440 Kista, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01 E-mail: info@hamamatsu.se

Italy: HAMAMATSU PHOTONICS ITALIA S.R.L.: Strada della Moia, 1 int. 6 20044 Arese (Milano), Italy, Telephone: (39)02-93 58 17 33, Fax: (39)02-93 58 17 41 E-mail: info@hamamatsu.it

China: HAMAMATSU PHOTONICS (CHINA) CO., LTD.: 1201, Tower B, Jiaming Center, 27 Dongsanhuan Beilu, Chaoyang District, 100020 Beijing, P.R. China, Telephone: (86)10-6586-6006, Fax: (86)10-6586-2866 E-mail: hpc@hamamatsu.com.cn

Taiwan: HAMAMATSU PHOTONICS TAIWAN CO., LTD.: 13F-1, No.101, Section 2, Gongdao 5th Road, East Dist., Hsinchu City, 300046, Taiwan(R.O.C) Telephone: (886)3-659-0080, Fax: (886)3-659-0081 E-mail: info@hamamatsu.com.tw

Cat. No. LDDL3010E02
JAN. 2025