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Find the *Newport / Oriel 71582* at our website: *Click HERE*

Newport

ORIEL PRODUCT LINE

SILICON DETECTOR HEADS
MODELS: 71609 - 71612, 71639-71642, 71649-71652, 71666-71669, 71675-71678

These silicon photodiodes are configured for photovoltaic operation. The detector output is provided on a BNC connector. The BNC center is the cathode and the BNC shell is the anode. This configuration provides a positive voltage through a transimpedance amplifier or a negative voltage to load resistor. For the cooled detectors, a single stage thermoelectric cooler provides cooling (to about 25°C below room temperature) to stabilize detector response and reduce noise levels.

MODEL #	Si ELEMENT		DETECTOR HEAD	CABLES, etc.	SPECTRAL CAL RANGE
71609	VIS/IR	10x10mm	71579	70018 BNC	---
71610	UV	10x10mm	71580		---
71611	VIS/IR	5mm ϕ cooled	71581	70018 BNC 70062 cooler	---
71612	UV	5mm ϕ cooled	71582		---
71639	VIS/IR	10x10mm	71579	70061 calprom	400-1100nm
71640	UV	10x10mm	71580		200-1100nm
71641	VIS/IR	5mm ϕ cooled	71581	70061 calprom 70062 cooler	400-1100nm
71642	UV	5mm ϕ cooled	71582		200-1100nm
71649	VIS/IR	10x10mm	71579	70018 BNC	400-1100nm
71650	UV	10x10mm	71580		200-1100nm
71651	VIS/IR	5mm ϕ cooled	71581	70018 BNC 70062 cooler	400-1100nm
71652	UV	5mm ϕ cooled	71582		200-1100nm
71666	UV	10x10mm	71580	70018 BNC 71683 interface module	---
71667	UV	5mm ϕ cooled	71582	70018 BNC 71683 interface module 70045 cooler	---
71668	VIS/IR	10x10mm	71579	70018 BNC 71683 interface module	---
71669	VIS/IR	5mm ϕ cooled	71581	70018 BNC 71683 interface module 70045 cooler	---
71675	UV	10x10mm	71580	70018 BNC calibration module	200-1100nm
71676	UV	5mm ϕ cooled	71582	70018 BNC calibration module 70045 cooler	200-1100nm
71677	VIS/IR	10x10mm	71579	70018 BNC calibration module	400-1100nm
71678	VIS/IR	5mm ϕ cooled	71581	70018 BNC calibration module 70045 cooler	400-1100nm

CABLES, etc.

70018 low noise BNC cable

70061 low noise BNC cable terminated with a 9 pin D-sub, including a calibration prom which contains spectral responsivity data that is read by the Oriel OPM (model 70310) at power on

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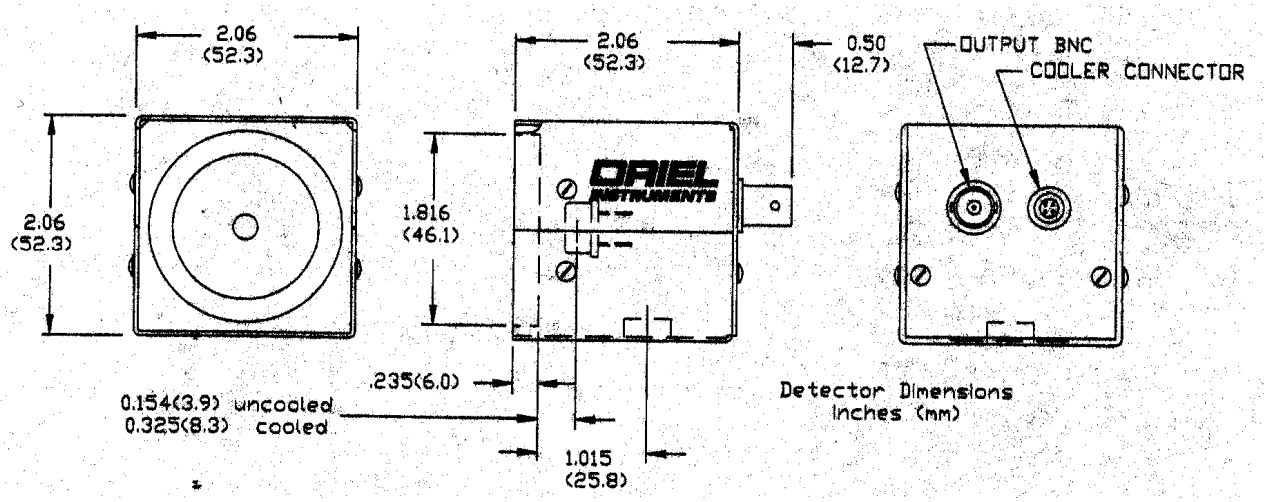
71683 interface module to connect detector (BNC cable) to Newport 1935/2935 power meter and enables the current measurement mode for non-calibrated detector

calibration module contains spectral responsivity data which is read into the Newport 1935/2935 power meter at power on; interfaces BNC cable to power meter

70045 cooler cable for operation with the Newport 1935/2935 power meter (the -T Version)

70062 cooler cable for operation with the Oriel Cooler Controller model 77055.

If a Newport cooler controller is not being used, the 9 pin D-sub connector can be removed and the cable terminated for your controller. The red wire is the “TEC +”; black is the “TEC –“; white and green are the thermistor; the cable shield should be connected to the controller chassis.



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DECLARATION OF CONFORMITY

Manufacturer's name:	Newport Corporation
Manufacturer's address:	150 Long Beach Boulevard Stratford, CT 06615 USA
Declares that the product:	
Product Name	DETECTORS HEADS
Model Number:	71609-71612, 71639-71642, 71649-71652, 71650-71652, 71666-71669, 71675-71678
Conforms to the following Product Specifications:	
Safety:	EN 61010-1: 1993 +A2/ IEC 1010-1: 1990 +A1 +A2
EMC:	EN 50081-1: 1992 EN 55022: 1994 / EN 55011: 1993 Class B EN 50082-1: 1992 IEC 801-2:1991 / IEC 1000-4-2: 1995 ENV 50140: 1993 / EC 1000-4-3: 1995 / EN 61000-4-3: 1995 IEC 801-4: 1988 / IEC 1000-4-4: 1995
Complies with the following Directives:	
- the EMC Directive	89/336/EEC
- the Low Voltage Directive	73/23/EEC
And accordingly, carries the CE mark.	
Stratford, CT September 1998	George Buzel (Signature) George Buzel (Name) Director of Engineering (Title)

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Warranty and Returns

Newport warrants that all goods described in this manual (except consumables such as lamps, bulbs, filters, ellipses, etc.) shall be free from defects in material and workmanship. Such defects become apparent within the following period:

1. All products described here, except spare parts: one (1) year or 3000 hours of operation, whichever comes first, after delivery of the goods to the buyer.
2. Spare parts: ninety (90) days after delivery of goods to the buyer.

Newport's liability under this warranty is limited to the adjustment, repair and/or replacement of the defective part(s). During the above listed warranty period, Newport shall provide all materials to accomplish the repaired adjustment, repair or replacement. Newport shall provide the labor required during the above listed warranty period to adjust, repair and/or replace the defective goods at no cost to the buyer ONLY IF the defective goods are returned, freight prepaid, to a Newport designated facility. If goods are not returned to Newport, and the user chooses to have repairs made at their premises, Newport shall provide labor for field adjustment, repair and/or replacement at prevailing rates for field service, on a portal-to-portal basis.

Newport shall be relieved of all obligations and liability under this warranty of:

1. The user operates the device with any accessory, equipment or part not specifically approved or manufactured or specified by Newport unless buyer furnishes reasonable evidence that such installations were not the cause of the defect. This provision shall not apply to any accessory, equipment or part, which does not affect the safe operation of the device.
2. The goods are not operated or maintained in accordance with Newport's instructions and specifications.
3. The goods have been repaired, altered or modified by other than authorized Newport personnel.
4. Buyer does not return the defective goods, freight prepaid, to a Newport facility within the applicable warranty period.

IT IS EXPRESSLY AGREED THAT THIS WARRANTY SHALL REPLACE ALL WARRANTIES OF FITNESS AND MERCHANTABILITY. BUYER HEREBY WAIVES ALL OTHER WARRANTIES, GUARANTEES, CONDITIONS OR LIABILITIES, EXPRESSED OR IMPLIED, ARRISING BY LAW OR OTHERWISE, WHETHER OR NOT OCCASIONED BY NEWPORT'S NEGLIGENCE.

This warranty shall not be extended, altered or varied except by a written document signed by both parties. If any portion of this agreement is invalidated, the remainder of the agreement shall remain in full force and effect.

CONSEQUENTIAL DAMAGES

Newport shall not be responsible for consequential damages resulting from misfunctions or malfunctions of the goods described in this manual. Newport's total responsibility is limited to repairing or replacing the misfunctioning or malfunctioning goods under the terms and conditions of the above described warranty.

INSURANCE

Persons receiving goods for demonstrations, demo loan, temporary use or in any manner in which title is not transferred from Newport, shall assume full responsibility for any and all damage while in their care, custody and control. If damage occurs, unrelated to the proper and warranted use and performance of the goods, recipient of the goods accepts full responsibility for restoring the goods to their condition upon original delivery, and for assuming all costs and charges.

RETURNS

Before returning equipment to Newport for repair, please call the Customer Service Department at (203) 377-8282. Have your purchase order number available before calling Newport. The Customer Service Representative will give you a Return Material Authorization number (RMA). Having an RMA will shorten the time required for repair, because it ensures that your equipment will be properly processed. Write the RMA on the returned equipment's box. Equipment returned without a RMA may be rejected by the Newport Receiving Department. Equipment returned under warranty will be returned with no charge for the repair or shipping. Newport will notify you of any repairs not covered by the warranty, with the cost of the repair, before starting the work.

Please return equipment in the original (or equivalent) packaging. You will be responsible for damage incurred from inadequate packaging, if the original packaging is not used.

Include the cables, connector caps and antistatic materials sent and/or used with the equipment, so that Newport can verify correct operation of these accessories.

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