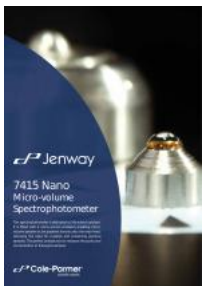


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Catalog excerpts



7415 Nano Micro-volume [Spectrophotometer](#) This spectrophotometer is dedicated to life science analysis. It is fitted with a micro-volume accessory enabling microvolume samples to be pipetted directly onto the read head, removing the need for cuvettes and conserving precious samples. The perfect analysis tool to measure the purity and concentration of biological samples. [tr/J Cole-Parmer scientific experts](#)

Open the catalog to page 1



Introducing the 7415 Nano The 7415 Nano measures small sample volumes as low as 0.5µl with a high degree of accuracy, reproducibility and speed. Its ability to measure small sample volumes, reduces the need for dilutions and eliminates the requirement for cuvettes. Cleaning is quick and simple; wiping the read and read heads with a microfibre cloth removes all trace of the sample, allowing faster change over between samples, therefore increasing reagent sample throughput. Key Features • Android operating system • Only 0.5µl...

Open the catalog to page 2



Micro-volume Spectroscopy The 7415 Nano is fitted with a microvolume accessory which allows samples as small as 0.5µl to be pipetted directly onto the read head, removing the need for cuvettes and conserving precious samples. This makes it ideal for nucleic acid researchers where sample availability may be limited; the perfect analysis tool to measure the purity and concentration of biological samples. Light from Xenon lamp Detected by photodiode detector Top read head Light direction Sample droplet Fibre optic cables Read Head Simply pipetting directly onto the read head makes sample...

Open the catalog to page 3

System of Specifications		
System name	System	System
System version	1.0.0.0	1.0.0.0
System type	System	System
System architecture	System	System
System configuration	System	System
System components	System	System
System dependencies	System	System
System interfaces	System	System
System data	System	System
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System performance	System	System
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System testability	System	System
System documentation	System	System
System compliance	System	System
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System portability	System	System
System scalability	System	System
System flexibility	System	System
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System recovery	System	System
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System restore	System	System
System migration	System	System
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System downgrade	System	System
System uninstall	System	System
System installation	System	System
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Technical Specification Ordering Information Product Code 9 Orion Court, Ambuscade Road, Colmworth Business Park, St Neots, Cambridgeshire, PE19 8YX France T: +33 (0) 1486 37800 E: cpventes@coleparmer.com Cole-Parmer makes every effort to ensure that the information provided in this brochure is accurate and up to date at the time of going to press (May 2018). This brochure may be subject to modifications without warning. Cole-Parmer will accept no liabilities for any inconveniences resulting of these changes. ©2018 Cole-Parmer Instrument Company, LLC. All rights reserved. For a listing of...

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Cryogenics

C

Dewars with Canister Storage Systems

No need to replenish LN_2 for 11 months

- Safety stand complies up to 11 months without need to replenish LN_2
- Store samples in vapor or liquid phase depending on LN_2 level
- Durable, lightweight aluminum construction
- Maintain temperature for $-194^{\circ}C$ at residue can
- $\sim 10^6$ C liquid nitrogen level

Each Dewar comes with canisters in which hold only combination of cryogenic gases, tubes, or sample containers. Canister handles are inflexible for easy identification and include flow sample adapter. To transport your Dewars safely, order an optional roller base stand. Use nitrogen gas D5776-02 (not listed) to determine and maintain correct liquid nitrogen level.

Capacity Liters	Max Ht in (cm)	Insulated canister in (cm)	Date received	Evaporation rate liters/day	Inner diameter in (cm)	Canister material	Price
Beakers with capillaries							
20	39.1 (100)	19.1 (49)	8/26/06	0.002	16.1 x 16.1 x 16.1	Al 3003-T6	\$2,650.00
30	41.7 (107)	21.7 (55)	8/26/06	0.002	18.7 x 18.7 x 18.7	Al 3003-T6	\$3,020.00
50	47.1 (120)	27.1 (69)	8/26/06	0.002	24.1 x 24.1 x 24.1	Al 3003-T6	\$3,650.00
70	50.9 (129)	30.9 (78)	8/26/06	0.002	27.9 x 27.9 x 27.9	Al 3003-T6	\$4,020.00
100	54.1 (138)	34.1 (87)	8/26/06	0.002	30.9 x 30.9 x 30.9	Al 3003-T6	\$4,390.00
150	60.9 (155)	40.9 (104)	8/26/06	0.002	37.9 x 37.9 x 37.9	Al 3003-T6	\$5,020.00
Beakers with tubes							
20	41.7 (107)	21.7 (55)	8/26/06	0.002	16.1 x 16.1 x 16.1 x 6.0	Al 3003-T6	\$2,650.00

Note: Insulating foam and evaporation rates are nominal.

62-02773-06 Receiving and handling in received and sent.

62-02773-06 Roller base for Dewars with 120" (30.5 cm) dia base

62-02773-11 Roller base for Dewars with 150" (38.1 cm) dia base

Storage Dewars

Get maximum holding times with superior construction

- Maximum insulation with insulator vacuums space between inner and outer shells and advanced insulation
- Durable, lightweight aluminum construction
- Reduce liquid nitrogen loss with insulative can design
- Move larger capacity Dewars easily with optional roller base

Capacity Liters	Max Ht in (cm)	Insulated canister in (cm)	Date received	Evaporation rate liters/day	Inner diameter in (cm)	Canister material	Price
4	11.9 (30)	6.9 (17)	8/26/06	0.001	11.9 x 11.9 x 11.9	Al 3003-T6	\$450.00
6	14.5 (37)	9.5 (24)	8/26/06	0.001	14.5 x 14.5 x 14.5	Al 3003-T6	\$500.00
10	19.1 (49)	14.1 (36)	8/26/06	0.001	19.1 x 19.1 x 19.1	Al 3003-T6	\$650.00
20	27.1 (69)	22.1 (56)	8/26/06	0.001	27.1 x 27.1 x 27.1	Al 3003-T6	\$850.00
30	34.1 (87)	29.1 (74)	8/26/06	0.001	34.1 x 34.1 x 34.1	Al 3003-T6	\$1,050.00
50	40.9 (104)	35.9 (91)	8/26/06	0.001	40.9 x 40.9 x 40.9	Al 3003-T6	\$1,250.00
70	47.1 (120)	42.1 (107)	8/26/06	0.001	47.1 x 47.1 x 47.1	Al 3003-T6	\$1,450.00
100	54.1 (138)	49.1 (125)	8/26/06	0.001	54.1 x 54.1 x 54.1	Al 3003-T6	\$1,650.00

62-02773-06 Receiving and handling in received and sent, 10, 25, 50, and 500 Dewar base not included.

62-02773-06 Receiving and handling in received and sent, 10, 25, 50, and 500 Dewar base not included.

62-02773-11 Receiving and handling in received and sent, 10, 25, 50, and 500 Dewar base not included.

62-02773-11 Receiving and handling in received and sent, 10, 25, 50, and 500 Dewar base not included.

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62-02773-11 Receiving and handling in received and sent, 10, 25, 50, and 500 Dewar base not included.

US Toll-Free 800-322-4340

Outside the US: 848-544-7600

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1. **Worthington 4LDB Liquid Nitrogen Storage Dewar; 4 L, 10 Day Static Hold**

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at CofePArmer.com

Visible Scanning Spectrophotometer

Save time with auto calibration
at start-up

- Results provide details of power up
- Analog and RS-232 outputs let you interface with printers and PCs
- Auto-zero (h) transmittance function
- Fully BIP (Good Laboratory Practice) compliant

Internal software fine-tunes each sample reading. Convert spectrophotometer readings to a digital display. 62-200 scans allows you to fine tune each measurement. Universal output displays data to IDE, Word, Power Point, and other software applications.

Simultaneously read 62 parameters read transmittance, absorbance, or concentration with factor select and wavelength. Choose line LED sources after image, position, mode, resolution, and concentration (nm, %, g/L, M/L, and trans).

What's included: 62-200 PC, micro, interface, for 10-min. 62-200 PC, wavelength and 12.5 mm (0.5 in.) test blocks. 100 disposable polystyrene cuvettes (10-mm pathlength), and 5-8 (1-8) cuvet of 15 (10) made under ISO standard (pH).

SPECIFICATIONS		CE	
Accessories	62-2000-00	62-2000-02	
Cabling network	62-2000-01	62-2000-02	
Resolution	0.001	0.001	
Wavelength range	325 to 700 nm	325 to 700 nm	
Wavelength accuracy	±0.1 nm	±0.1 nm	
Photometric	Transmittance	0.001 to 100%	
	Absorbance	0.001 to 100%	
	Concentration	0.001 to 100%	
Signal	0.001 to 100% (0.001 to 100%)	0.001 to 100% (0.001 to 100%)	
Power	100 WAC	100 WAC	200 WAC

Accessories

62-2000-01 Replacement cables, Pack of 100

62-2000-02 PC software

62-2000-03 PC software

Spectroscopy

Scanning Spectrophotometer Transfer data to PC or printer

Print results—general
analysis results fast
scanning up to
400 scans

More flexibility—

Print single or all
all-odd cuvettes

Print single or all
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2. **Virtual Catalog**

1 Pages

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JENWAY
GENOVA BIO AND TRAYCELL

Cole-Parmer

Using the Traycell with the Genova Bio

- Introduction

One of the most common applications of a UV/visible spectrophotometer is to measure the concentration of nucleic acids. Often there is very little sample available and the researcher may not wish to dilute it further in order to obtain values for measurement in a standard quartz cuvette. Ultra-micro quartz cuvettes are available which will allow as little as 20µl of sample to be measured directly, however they can be quite difficult to use to achieve reproducible results and if the sample needs to be recovered, there may be issues of contamination. An alternative approach, if the sample is of a sufficient concentration, is to use a TravCell.



The TrayCell (Figure 1) is a fibre-optic, ultra-micro cell designed for measurements of extremely small sample volumes of DNA, RNA or protein. The dimensions of the TrayCell are equivalent to a standard 10mm path length cuvette and so will fit in all Jenway spectrophotometers; it is also extremely easy to use.

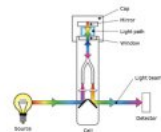


Figure 1: Schematic diagram of the light path in the TrayCel.

Once the measurement has been made, the cap is removed and the sample can be recovered if required. The window and cap are then gently cleaned using a lint-free swab or wipe. The TrayCell remains in the cell holder during all stages; this ensures that the aperture remains in an identical position for each measurement for increased reproducibility.

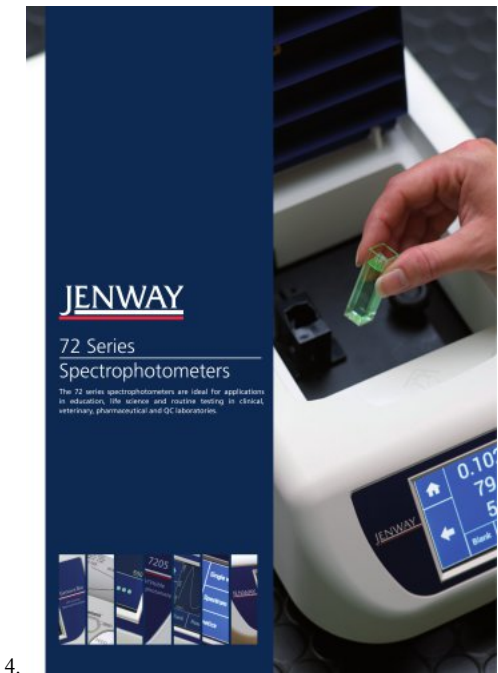
- Virtual dilution

Two caps (1mm and 0.2mm) are supplied with the TrayCell which create defined optical light paths of 1mm and 0.2mm respectively. Caps giving 2mm or 0.1mm path length are also available as accessories. The reduced path length (compared to a standard 10mm cuvette) generates a virtual dilution of the sample with a dilution factor of 1:10 for a 1mm cap or 1:50 for a 0.2mm cap. This allows the user to measure the sample and recover it

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3. 83056 04 Genova Bio with TrayCell CP

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4. 83056_ Series_ 72 Series+Bio CPVH AUG17

8 Pages

5. PFP7

1 Pages

PFP7
Industrial Flame Photometer

The PFP7 is a low temperature, single channel flame photometer that is designed for the routine determination of sodium, potassium, calcium, barium and lithium concentrations. The flame failure safety system makes these products ideal for use in industrial and educational environments. The use of fine and coarse sensitivity controls allows for accurate measurements each and every time.

Technical Specification

Range	0 to 1000 ppm
Limits of detection	Na: 0.1 ppm K: 0.2 ppm Li: 0.25 ppm Ca: 75 ppm Ba: 35 ppm
Reproducibility	<1% coefficient of variation for 20 consecutive samples using 10 ppm Na set to read 90
Linearity	<2% error when 10 ppm Na/K and 50 ppm Li are set to read 100
Stability	<2% drift over 3 hrs when continuously aspirating 10 ppm sample set to 50.0
Specificity	Interference from Na/K and Li equal in concentration to test element will be <0.5%
Recorder output	Nominal 1.80V for a reading of 100.0
Servicos	
Electrical	90-125V or 190-210V @50/60Hz
Air	MediFlow and 0.8 lps, 6 Bar/min @ 14psi
Fuel	Propane, butane, natural gas or LPG
Size (w x d x h), mm	420 x 360 x 300
Weight, kg	8

Ordering Information

Part Code	Description
520 101	PFP7 industrial flame photometer supplied with Na, K, Ba, Ca and Li filters, connecting hoses and clips, compressor plug and drain trap (230V/50Hz)

Note: This product will only operate with the correct type of compressor and gas regulator as specified.

* Voltage variants available see page 54

Key Features

- Designed for industrial analysis
- Supplied with Na, K, Li, Ba and Ca filters
- Low temperature, single channel
- Flame failure safety system
- Operates with propane, butane, natural gas or LPG

PFP7
Part code: 520 101

Nebuliser
Part code: 520 013



6. Genova Bio

3 Pages

TrayCell

Spectrophotometer Accessories

- Ideal for DNA, RNA and protein measurements
- Sample volumes as low as 0.7µl
- Sample concentration range from 25 to 4250µg/ml
- Sample is simply wiped away after the measurement, making the TrayCell quick and easy to use
- Prevents dilution and pipetting errors
- Fits all standard 10 x 10mm cuvette holders

The TrayCell is a fibre optic cuvette which can be used with as little as 0.7µl of sample. The cuvette has two caps which give path lengths of either 1mm or 0.2mm, thus creating a virtual dilution of 1:10 or 1:50 of the sample when compared to a measurement with a standard 10mm cuvette.

Technical Specification

Light Path	0.2mm or 1mm
Error of light path	± 0.05mm
Volume	0.7-5µl
Wavelength range	180 to 1100nm
Maximum temperature	50°C

Ordering Information

Part Code	Description
033-262	TrayCell for ultra-micro sample volumes from 0.7 to 5µl compatible with GenovaPlus, 6705 and 6715 spectrophotometers, supplied complete with caps for 1mm and 0.2mm path length operation
035-262	Replacement 10mm path length cap for TrayCell
035-264	Replacement 0.2mm path length cap for TrayCell

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7. traycell

1 Pages