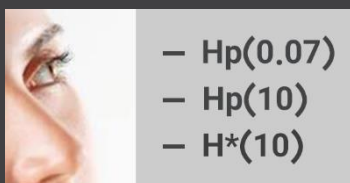




Innovator In Spectroscopy Equipment

DRCU2519



- Hp(0.07)
- Hp(10)
- H*(10)



DATA READER AND CHARGER UNIT MODEL DRCU2519

www.cfp.co.ir



DRCU2519-1D

DRCU2519-5D



CATALOG



MISCELLANEOUS



FREE DOWNLOAD

DATA READER AND CHARGER UNIT

MODEL DRCU2519

Features

- Supplying data security
- Dose dashboard with total dose history
- Providing unique platform for data transfer
- Best choice for health physics applications
- User friendly interface for data management
- 5 docks for Parallel and fast reading and charging
- Presenting time stamped dose history and battery status
- annual dose in number and relation to a configurable yearly limit
- Presenting data reading and charging simultaneously
- Ease of maintenance
- Wide temperature range
- Ready for field operation
- Selectable personnel working position
- Easy setup for CFP personal dosimeters
- Easy assignment of personnel dosimeters
- Personnel-dependent configuration and setup
- Continuous operation under severe environmental condition
- Special rugged design to withstand typical field usage, waterproof against streaming water and fully dust protected

FAST AND PARALLEL READING AND CHARGING FOR PERSONAL DOSIMETERS



Description

The DRCU2519 from Control Farayand Pasargad (CFP) is a data reader and charging unit especially designed for CFP personal dosimeters. Personal dosimeters as the main instrument in measuring the dose absorbed by personnel in various working environments including radiotherapy, radiology, nuclear imaging centers, etc., need reading units which provide them with an easy interface for data gathering and presenting. DRCU2519 is the best choice for this purpose. This device provides both data reading and charging capabilities for CFP personal dosimeters.

The device comes in two versions based on the number of docks available in the device. DRCU2519-5D is equipped with 5 docks which result in parallelism and faster operation. This device also provides all software functionalities using embedded system and display. A lighter version is

DRCU2519-1D which comprises one dock and demand PC for full operation. Both versions provide charging capabilities.

This device unifies the communication with personal dosimeter. In other words, the unique method for sending data to or extracting data from personal dosimeters is via DRCU2519-5D or its one-dock counterpart DRCU2519-1D. This feature maximizes the data security in CFP personal dosimeters.

DRCU2519 also presents charging capabilities for dosimeters which makes reading and charging operations simultaneous.

The software accompanying DRCU2519 bring efficient data gathering and presentation routines. The dose dashboard corresponding to each personal dosimeter present total dose history, annual dose in number and relation to configurable yearly limits, time stamped dose history and battery status.

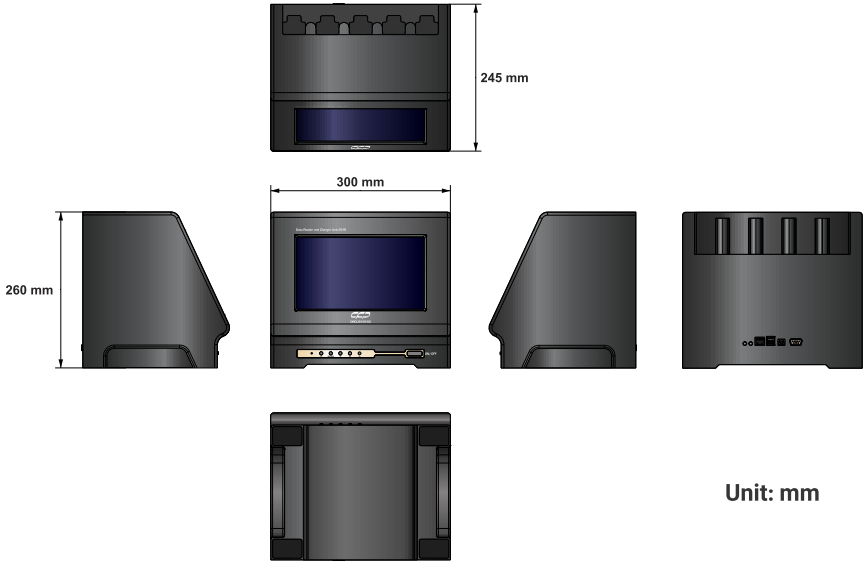
Specifications

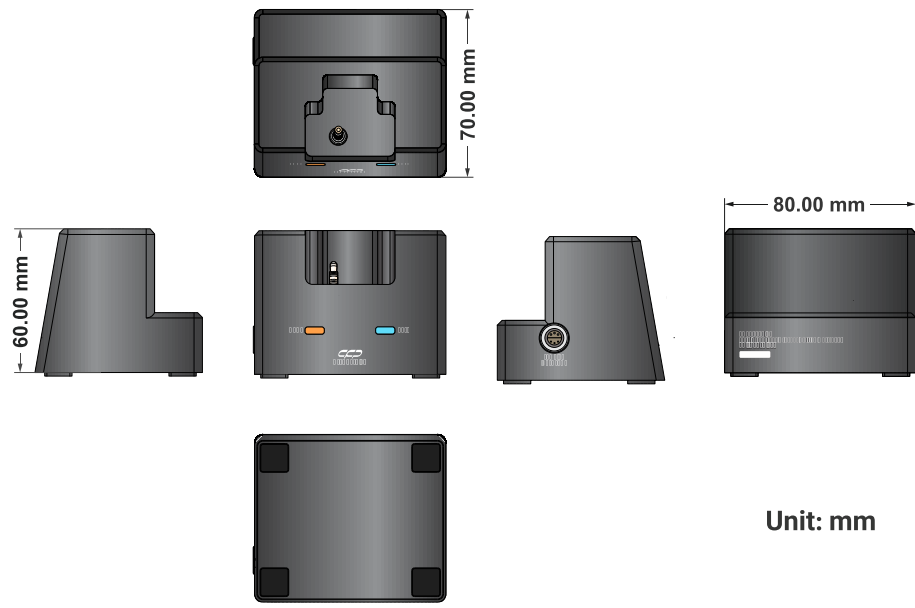
Unit : DRCU2519		
Type	Data reader and charger unit	
Version	DRCU2519-1D	DRCU2519-5D
Number of docks	1	5
Input(s)		
Power	DC +5V USB (100mA)	AC 220V power cable (50Hz)
USB port	USB	
Input protocol	CFP data transfer protocol	
Output(s)		
Output	No output signal	
Control(s)		
Power push button	-	Push to turn device ON and OFF
Display buttons	-	Setting configure via display (set and read all data)
Display		
Type	-	Full color, IPS
Size	-	10.1", 1280 × 800 pixels
Indicator(s)		
Power	Yellow color	
Performance		
Device functionalities	Total time stamped dose history with overview, Configurable yearly limit, Battery status and Report and Alarm, Personnel-dependent configuration and setup, Easy assignment of dosimeters to personnel (Functionalities are available on both PC and device for DRCU2519-5D while just on PC for DRCU2519-1D)	
Installation and protection level		
configuration	Table-placed	
Memory		
Capacity	Based on PC	≥1Gbyte

Application

- Data reading and charging for 5 and 1 personal dosimeters in DRCU2519-5D and DRCU2519-1D, respectively
- Personnel Dose data reading in medical centers including medical imaging clinics
- Personnel Dose data reading in nuclear power plants, and nuclear materials processing centers
- Offline nuclear interactions exploration using time stamped dose history evolutions

Electrical and Mechanical

Unit:DRCU2519		
Type	Data Reader and Charger Unit	
Version	DRCU2519-5D	DRCU2519-1D
Electrical		
Power required	AC - 220V - 50Hz	USB –DC –5V –100mA
Physical		
Dimensions (L × W × H)	300mmx245mmx260mm	120mmx120mmx110mm
Weight	5.2kg	720g
Protection class	IPX6 (Except for Version 3)	
Mechanical	DRCU2519-5D	
		
	Unit: mm	

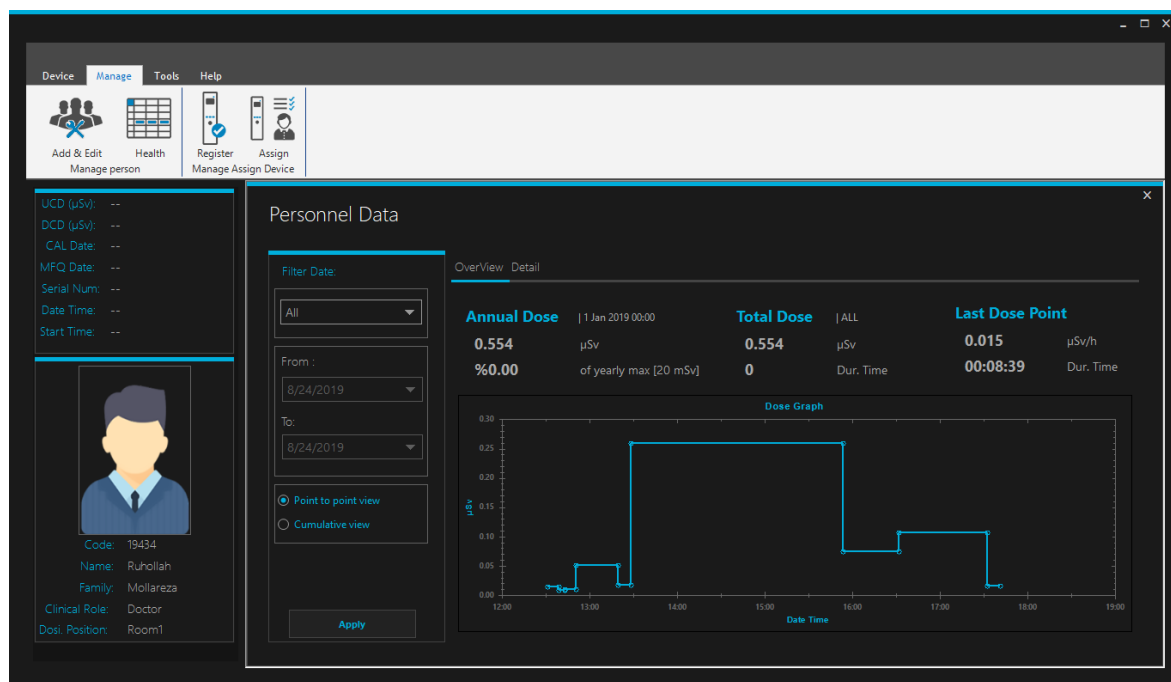
DRCU2519-1D		
	 Unit: mm	
	Weight	5.2kg
	Storage temperature	0°C to 50°C
	Operating temperature	10°C to 45°C.
	Protection level	IP20

Software

DRCU2519-1D is equipped with a user-friendly software. This software provides various features including dose dashboard with total dose history, annual dose in number and relation to a configurable yearly limit and detailed views presenting time stamped dose history for different devices in the unit. Various elements in the software are:

Personnel dose overview window including:

- Various filtering options for dose evaluations
- Annual dose
- Yearly limit dose
- Total Dose
- Last dose point
- Time-stamped dose curve
- Personnel information

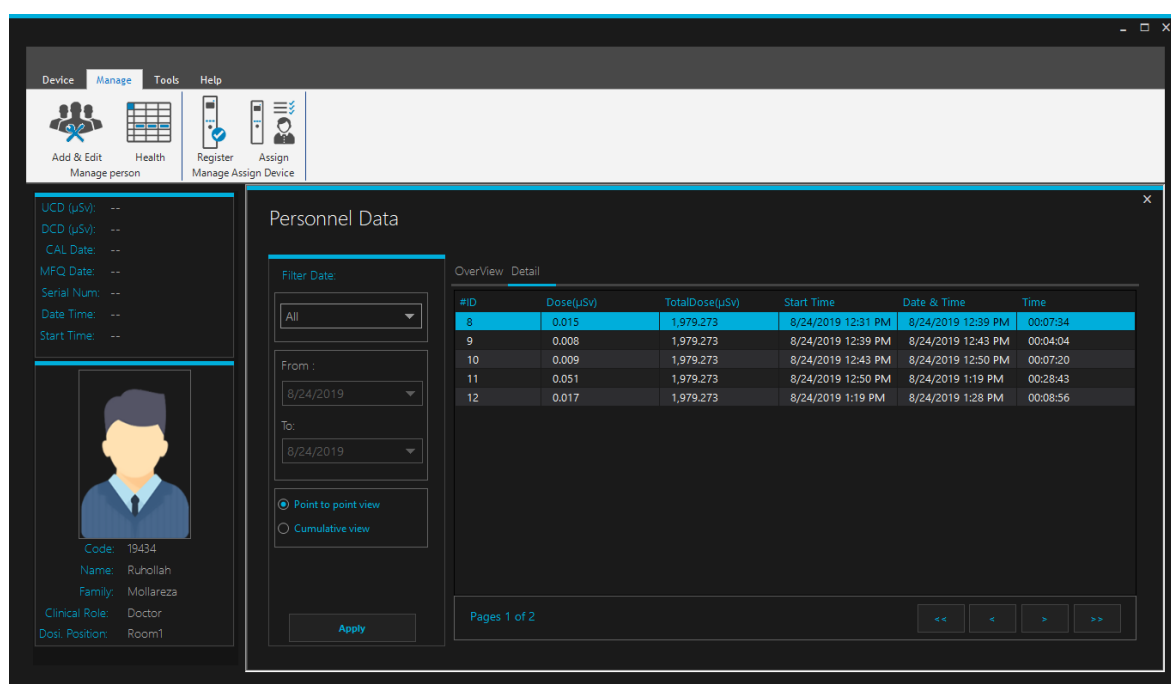


Personnel dose detail window (sample database record) including the following fields:

- ID: Record ID
- Dose(μSv): User dose in the record
- Total dose(μSv): Total device dose
- Start Time: Start time for the recorded dose
- Date & Time: Date and time when the record is saved

Time: Working time of the record

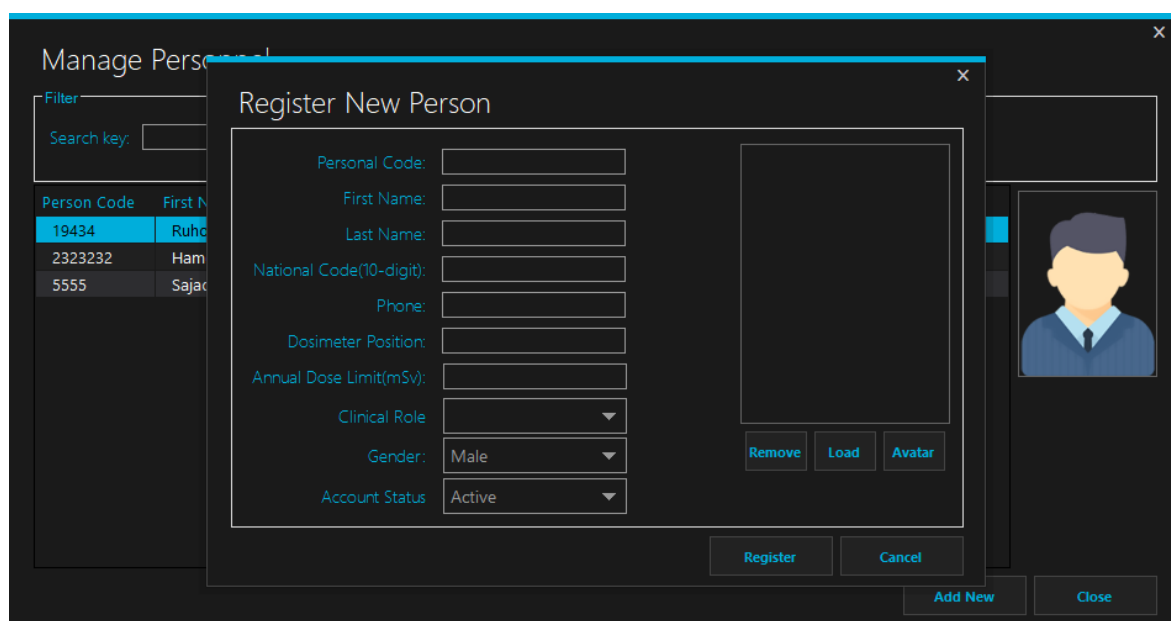
NOTE: Information in the detail table can be exported to csv format.



The screenshot shows the 'Personnel Data' window. On the left, there's a sidebar with fields for UCD, DCD, CAL, MFQ, Serial Num, Date Time, and Start Time, all with '--' values. Below these is a profile picture placeholder and personal details: Code: 19434, Name: Ruhollah, Family: Mollareza, Clinical Role: Doctor, Dosi. Position: Room1. The main area has a 'Filter Date' dropdown set to 'All', 'From' and 'To' date pickers both set to '8/24/2019', and radio buttons for 'Point to point view' (selected) and 'Cumulative view'. An 'Apply' button is at the bottom left. The right side shows a table with columns: #ID, Dose(μSv), TotalDose(μSv), Start Time, Date & Time, and Time. The table has 5 rows of data. At the bottom right, it says 'Pages 1 of 2' with navigation arrows.

#ID	Dose(μSv)	TotalDose(μSv)	Start Time	Date & Time	Time
8	0.015	1,979.273	8/24/2019 12:31 PM	8/24/2019 12:39 PM	00:07:34
9	0.008	1,979.273	8/24/2019 12:39 PM	8/24/2019 12:43 PM	00:04:04
10	0.009	1,979.273	8/24/2019 12:43 PM	8/24/2019 12:50 PM	00:07:20
11	0.051	1,979.273	8/24/2019 12:50 PM	8/24/2019 1:19 PM	00:28:43
12	0.017	1,979.273	8/24/2019 1:19 PM	8/24/2019 1:28 PM	00:08:56

Personnel register window



The screenshot shows the 'Manage Personnel' window with a 'Register New Person' modal open. The modal has input fields for Personal Code, First Name, Last Name, National Code(10-digit), Phone, Dosimeter Position, Annual Dose Limit(mSv), Clinical Role (dropdown), Gender (dropdown set to 'Male'), and Account Status (dropdown set to 'Active'). There are 'Remove', 'Load', and 'Avatar' buttons. At the bottom of the modal are 'Register' and 'Cancel' buttons. The background window shows a 'Filter' section with a 'Search key' field and a table with columns 'Person Code' and 'First Name'. The table has three rows: 19434 | Ruhollah, 2323232 | Hamid, and 5555 | Sajad. At the bottom right of the background window are 'Add New' and 'Close' buttons.

Person Code	First Name
19434	Ruhollah
2323232	Hamid
5555	Sajad

Personnel management window

Manage Personnel

Filter

Search key:

Person Code	First Name	Last Name	Phone	Section	Account	Edit	Delete
19434	Karimian	Mohammadi	09128500501	Room1	Active	Edit	Delete
2323232	Mahmoud	Mohajeri		Room2	Active	Edit	Delete
5555	Sajjad	Shirazi		Room3	DeActive	Edit	Delete



[Add New](#) [Close](#)

Assigning device to personal

Assign device to Karimian Mohammadi

Device

Device:

Filter

☐ Show only active device

History:

Device SN	Cal Date	date	Return Date	Status	Return
180121-016	8/26/2019 10:04	8/28/2019 11:01	8/28/2019 11:01	Free	
180121-016	8/26/2019 10:04	8/28/2019 11:01	8/28/2019 4:35 PM	Free	
180121-016	8/26/2019 10:04	8/28/2019 4:36 PM	8/28/2019 4:57 PM	Free	
180121-014	5/12/2019 6:20 PM	8/17/2019 10:09	8/24/2019 3:23 PM	Free	
180121-001	5/5/2019 9:16 AM	8/24/2019 3:23 PM		Active	Return



[Add Device](#) [Close](#)

Registering device to system

Register Device

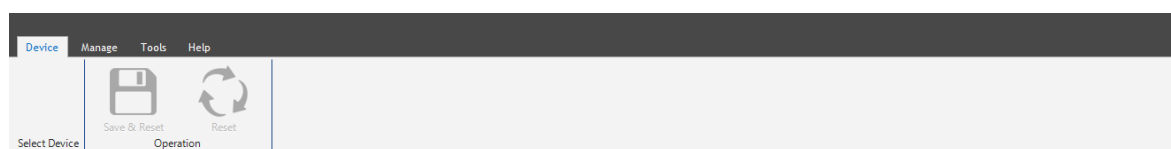
Connected Device: 180121-015

SN	Cal Date	Exp date	Status	Delete
180121-016	8/26/2019 10:04 AM	8/26/2020 10:04 AM	Free	Delete
180121-020	8/7/2019 2:52 PM	8/7/2020 2:52 PM	Free	Delete
180121-014	5/12/2019 6:20 PM	5/12/2020 6:20 PM	Free	Delete
180121-019	6/1/2019 12:16 PM	6/1/2020 12:16 PM	Used	Delete
180121-017	8/31/2019 10:59 AM	8/31/2020 10:59 AM	Used	Delete
180121-001	5/5/2019 9:16 AM	5/5/2020 9:16 AM	Used	Delete

[Add All](#)
[Add Device](#)
[Close](#)

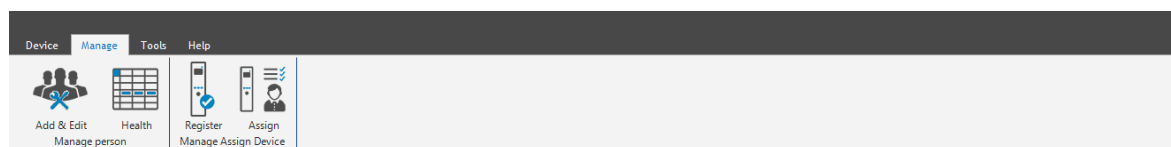
Device menu

- Connected device: Show device icon and serial number when the device connects to PC
- Save & Reset: Save the device record in the database, reset the user dose and set the start time to the current time
- Reset: Reset the user dose and set the start time to the current time



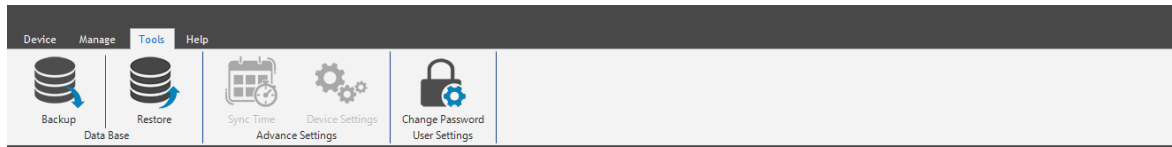
Manage menu

- Add & Edit: Add, remove or edit personnel
- Health: Personnel dose overview window
- Register: Registering device to system
- Assign: Assigning a device to personnel



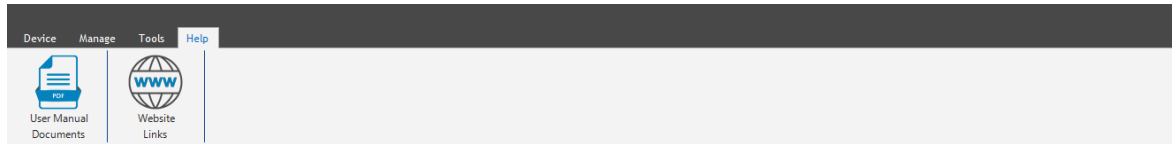
Tools menu

- Backup: database backup
- Restore: database restore
- Sync Time: Synchronizing device time with system
- Device Setting: Device parameter setting
- Change Password: Change software password



Help menu

- User manual: Show the directory of user manual
- Website Links: Opens company website (cfp.co.ir) in browser



Ordering info

DRCU2519-1 Standard package includes

Part #	Image	Description
DRCU2519-1D		DRCU2519-1 main
ACCE2519001		User guide CD (1 Pack) with software
ACCE2519002		box with foam inserted (1 Pack)
ACCE2519003*		Guarantee (one year)
ACCE2519011		LEMO Cable to USB for PC connection

DRCU2519-5 Standard package includes

Part #	Image	Description
DRCU2519-5D		DRCU2519-5 main
ACCE2519002		CD User guide (1 Pack) with software
ACCE2519003		Box with foam inserted (1 Pack)
ACCE2519003*		Guarantee (one year)
ACCE2519004		Power cable

* =we fully support our products. We guarantee your satisfaction in the quality of our instruments by providing a complete one-year warranty covering any defect of workmanship, material, and/or design. If our products do not perform, we will provide complete repair and/or replacement. For guaranty conditions, please refer to device manual (DRCU2519 - Manual).

Optional accessories and services

Part #	Image	Description
ACCE2519004		Installation
ACCE2519005		Training
ACCE2519006**		Re-calibration services 1year factory maintenance suggested, not required
ACCE2519007		Protective hard case for PD2318
ACCE2519012		USB to USB extenuation Cable

** = The proper maintenance & calibration of your instruments is critical to ensure proper performance & accuracy. for Re-calibration (interval) services, please call with CFP company (021- 46045383).



Innovator in Spectroscopy Equipment



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