

Scientifix are your Spectrophotometer Specialists

Range and quality

Simple QC & teaching systems through to the ultimate in research instruments

Contact Scientifix for a competitive quote and specialist advice

Scientifix's Range Includes:

Product	Primary Application	
Dynamica DNAmaster	Microvolume DNA/RNA/protein analysis	
Dynamica MPR-96	Visible MicroPlate Reader	
Dynamica Halo VIS-10	Scanning spectrophotometer	
Dynamica Halo SB-10	Simple UV-Vis range	
Dynamica Halo XB-10	Double beam applications	
Dynamica Halo BIOmaster	Double beam applications	
Dynamica Halo VIS-20	Double beam applications	
Dynamica Halo RB-10	Ratio beam applications	NEW model
Dynamica Halo DB-20	Double beam applications	NEW model
Dynamica Halo DB-20R	Double beam applications	NEW model
Dynamica Halo DB-30	Variable bandpass work	
Hitachi U-1900	Ratio beam applications	
Hitachi U-2900	Stand alone or PC operation	
Hitachi U-3900	High sensitivity variable bandpass applications	
Hitachi U-4100	Utmost sensitivity for solids analysis	
Hitachi U-5100	Life science research, DNA, RNA and Protein	
Hitachi F-2700	General purpose fluorescence spectrophotometer	
Hitachi F-4600	Research grade fluorescence spectrophotometer	
Hitachi F-7000	High-end fluorescence spectrophotometer	

Spectrophotometry Accessories:

- ◆ Cuvettes — glass, UV quartz and plastic disposable
- ◆ Absorbance & Wavelength calibration sets
- ◆ Calibration and Certification Services

DNAmaster Micro-volume Spectrophotometer from DYNAMICA

- Requires as little as 0.5 µl sample
- Nucleic acid, protein and bacterial culture applications
- On-board analyses functions
- 9x12cm colour LCD touch screen
- Long life Xenon flash lamp
- Wavelength range: 200-900nm
- Measuring range: 0-4 O.D.
- Slit width: 4nm
- DNA detection limit: 20 ng/µl
- Accepts conventional 10mm OPL cuvettes
- Optional heating module & thermal printer



optional thermal printer



PRODUCT	CODE
DNAmaster 200-900nm with 0.5-5 µl Ultra-microcell	DNAM-UM

Halo MPR-96 Visible Microplate Reader from DYNAMICA

- Wavelength Range: 400nm to 700nm
- Available with optional temperature control module: Ambient +5°C to +50°C
- Photometric Range: Absorbance: 0 to +4 O.D.
- Resolution: 0.001 OD
- Stability: ±0.001 OD (15 minutes after start up)
- Accuracy:
 - Better than ±1.0% ±0.01 OD (405 nm, 0.000 – 2.500 OD)
 - Better than ±2.0% ±0.01 OD (405 nm, 2.500 – 3.000 OD)
- Repeatability:
 - Better than ±0.5% ±0.005 OD (405 nm, 0.000 – 2.500 OD)
 - Better than ±1.5% ±0.005 OD (405 nm, 2.500 – 3.000 OD)
- Linearity:
 - Better than ±1.0% (405 nm, 0.000 – 2.500 OD)
 - Better than ±2.0% (405 nm, 2.500 – 3.000 OD)
- Reading Speed:
 - Single wavelength, fast mode, 96 well: ≤10 seconds
 - Dual wavelength, fast mode, 96 well: ≤15 seconds
- Plate Types: 96 Well – flat, U or V shape bottom
- Display: Back-lit LCD 90(W) x 68(H) mm: Resolution 320x240 pixels.
- Printer: USB interface
- Shaking: Linear, 4 speed selectable
- Temperature Control (optional): Ambient +4°C to +50°C
- Dimensions: 290(W) x 425(D) x 200(H) mm



PRODUCT	CODE
MPR-96 Visible Microplate Reader: includes: 405 / 450 / 492 / 595 & 620nm filters	MPR-96
MPR-96 Visible Microplate Reader with temperature control: includes: 405 / 450 / 492 / 595 & 620nm filters	MPR-96-TM
Mikrowin 2000 Lite Software for PC control of MPR-96	WR-32-03

Halo VIS-10 Scanning Spectrophotometer from DYNAMICA

Compact and inexpensive yet powerful. Combines full scanning capability with excellent resolution.

- Wavelength range: 330-999nm
- Single Beam
- Concave diffraction grating
- Wavelength accuracy: ± 1 nm
- Wavelength increment: 0.1nm
- Spectral bandwidth: 5nm
- Photometric range:
 - Abs: -0.17 to +2
 - %T: 0% to 150%
- Wavelength scan speed: 60-800 nm/min (full wavelength range)
- 4 x cuvette holder supplied as standard
- 8.9 x 8.9 cm backlit LCD Display
- On board software for: %T, ABS, Concentration calculation,
 - Spectrum display and printing
- Calibration curve function (between 2-8 standards)
- Auto calibration and Self diagnostic function
- RS-232 port
- Dimensions: 400(W) mm x 360(D) mm x 180(H) mm



PRODUCT	CODE
Halo VIS-10 visible beam spectrophotometer (includes 4 x 10mm cuvette holder)	VIS-10

Halo SB-10 Single Beam Spectrophotometer from DYNAMICA

Low cost UV Vis instruments for teaching and QC applications

- Single beam
- 190nm -1100nm wavelength range
- Photometric range:
 - Abs: -3 to +3
 - %T: 0% to 300%
- 2 nm spectral bandwidth
- Wavelength accuracy ± 0.5 nm
- 4 x 10 mm path length cuvette holder
- 9.4 x 7.0 cm LCD display with backlight
- Self diagnostic function
- On board Wavelength scan, Multi-wavelength scan, Fine scan, Qualitative calculation, Ratio calculation and Calibration curves

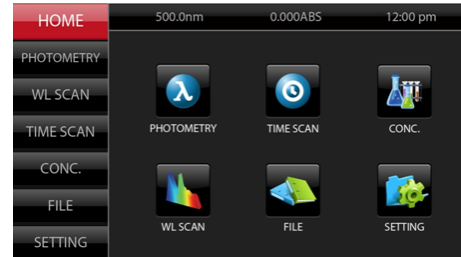


PRODUCT	CODE
Halo SB-10 Single Beam Spectrophotometer	SB-10
UV Detective Software for SB-10	D150101

Halo XB-10 Spectrophotometer from DYNAMICA

Lightweight, low cost, UV Vis spectrophotometer for teaching and QC applications

- Wavelength range: 190 – 1100nm
- Methods: Photometry, Time Scan, WL Scan, Quantitation
- Colour touch screen
- Operation mode with various measurement modes
- Full spectrum scanning
- Self diagnosis functions
- Robust, lightweight, & compact
- Varsity choice of accessories
- Ideal for teaching labs
- UV detective software for PC connecting options
- Storage and data output



<u>Halo XB-10 / BIOMaster</u>	
Wavelength Range	190 to 1000nm
Spectral Bandwidth	5nm
Resolution	1nm
Transmittance accuracy	±1% T
Wavelength accuracy	±2nm
Wavelength repeatability	1nm
Absorbance	-0.3 to 1.999
Transmittance	0 to 199.9%

BIOMaster is the XB-10 with in built parameters for life science calculations e.g. direct conversion of absorbance into concentration for nucleic acids

VIS-20 is XB-10 for Visible region only. 330-1000nm and 8nm bandwidth

PRODUCT	CODE
Halo XB-10 UV-VIS spectrophotometer	XB-10
BIOMaster UV-VIS spectrophotometer	BIOMaster
VIS-20 VIS spectrophotometer	VIS-20

Halo RB-10 Ratio Beam Spectrophotometer from DYNAMICA

Exceptional baseline stability for protein and DNA studies at very competitive prices

- Split beam (ratio) for greater accuracy
- Self diagnostic function
- 4nm spectral bandwidth
- Accommodates 50 mL, 25 mL and 5 mL cuvettes in optional micro-cell holder
- 190nm -1100nm wavelength range (220nm - 950nm with micro-cell holder)
- Wavelength scan speed up to 3600 nm/min
- 4 x 10 mm path length cuvette holder
- LCD display with backlight
- On board Wavelength scan, Multi-wavelength scan, Fine scan, Qualitative calculation, Ratio calculation and Calibration curves

NEW Model



PRODUCT	CODE
Halo RB-10 Ratio Beam Spectrophotometer	RB-10-220
UV Detective Plus (with DNA/RNA and Protein analysis software)	UVDS-08-01

Halo DB-20 Double Beam Spectrophotometer from DYNAMICA

Very competitive prices for double beam spectrophotometry

NEW Model

- Double beam system
- Integrated LCD display with backlight
- Stand alone or computer operation (latter requires optional UV Detective software)
- Self diagnostic function
- 1.5nm or 1.0nm spectral bandwidth (DB20S=1nmBW)
- Stray light <0.05%
- Accommodates 50 mL, 25 mL and 5 mL cuvettes in optional micro-cell holder
- 190nm -1100nm wavelength range (220nm - 950nm with micro-cell holder)
- Wavelength scan speed up to 3600 nm/min
- Qualitative calculation
- USB port for data (saved as text file) transfer to commercial spreadsheets (e.g. Excel)
- Time scan for kinetic studies, Wavelength scan, Multi-wavelength scan, Fine scan, Qualitative calculation, Ratio calculation and Calibration curves



PRODUCT	CODE
Halo DB-20 double beam spectrophotometer	DB-20-220
UV Detective Plus (with DNA/RNA and Protein analysis software)	UVDS-08-01
6 cell holder - with auto change control with UV Detective. No temperature control	DB-20-SCC
6 cell holder - with auto change control with UV Detective with temperature control...+20°C to +40°C	DB-20-SCCT

Halo DB-20R Double Beam Spectrophotometer from DYNAMICA

Computer controlled version of the DB-20S

NEW Model

- As per DB-20 with the following differences
 - No integrated LCD display
 - Computer operation only with supplied UV Detective software
 - 1.0nm spectral bandwidth
 - Meets pharmaceutical requirements for resolution



PRODUCT	CODE
Halo DB-20R double beam spectrophotometer includes UV Detective PLUS software	DB-20R-200
6 cell holder - with auto change control with UV Detective. No temperature control	DB-20-SCC
6 cell holder - with auto change control with UV Detective with temperature control...+20°C to +40°C	DB-20-SCCT

Halo DB-30 Variable Bandpass Double Beam Spectrophotometer from DYNAMICA

Ideal for variable bandpass double beam applications down to 0.1nm at very competitive prices

- Covers a wavelength range from 190 to 900nm
- Bandwidths of 0.1, 0.2, 1.0, 2.0 and 5.0nm and better than 0.01% stray light
- Rapid scanning at up to 2,000 nm/min
- On board data processing and storage of methods ensures the system is ideal for multi-user labs
- On board validation and self diagnosis ensures consistent and accurate results
- A full range of liquid and film sample holder



The Dynamica DB-30 is PC controlled with UV Detective software package which is easy to use and controls both the instrument and sophisticated accessories such as the sipper or thermostated multiple cell holder.

PRODUCT	CODE
Halo DB-30 variable bandpass double beam spectrophotometer	DB-30

U-1900 Ratio Beam Spectrophotometer from HITACHI

Ideal multi purpose, stand alone, UV Vis Spectrophotometer for research or QC

- Split beam for background correction
- Self diagnostic function
- 4nm spectral bandwidth
- Accommodates 50ml, 25ml and 5ml cuvettes in micro-cell holder
- 190nm -1100nm wavelength range (220nm - 950nm with micro-cell holder)
- Wavelength scan speed up to 3600 nm/min
- 4 x 10 mm path length cuvette holder
- 12.2 cm LCD display with backlight and larger characters / graphs
- 5 program internal memory
- Qualitative calculation
- Wavelength scan
- Fine scan
- Multi-wavelength scan
- Ratio calculation
- Calibration curves



PRODUCT	CODE
U1900 ratio beam spectrophotometer (includes 4 x 10mm cuvette holder)	3J0-0003
UV Solutions Software	2J1-0310

U-2900 Double Beam UV-VIS Spectrophotometer from HITACHI

True double beam UV-Vis spectrophotometer with low stray light for stand-alone or PC operation

- A 1.5nm bandpass
- Ideal for pharmaceutical applications meeting the European Pharmacopoeia requirements
- On board software for standard %T, Abs and Concentration studies, wavelength scanning, time scanning and kinetics, multiple wavelength work
- Includes validation and self diagnostic functions
- A high resolution spectral display shows all relevant data, methods, results and scans
- Small footprint



Suited to many diverse fields and industries such as pharmaceutical, food, sanitation, environment, biology, agriculture, geology, mineral, petrochemical, optical, life science, education, manufacturing and many others.

PRODUCT	CODE
U2900 double beam spectrophotometer	U2900

U-3900 Variable Bandpass Spectrophotometer from HITACHI

Ideal for highest sensitivity, variable bandpass and low stray light or high absorption applications

- The utmost in stray light capabilities for the most demanding research
- Measures over an extremely wide Absorbance range (to 5.5Abs for U3900H) with low stray light
- Ideal for reflectance or turbid sample work
- Full range of accessories for solid or liquid analysis
- Comprehensive self-testing and fault diagnosis
- Easy to use UV Solutions software for data collection, manipulation and recording functions.
- Data is easily output to other Windows programs such as Excel, Word and ASCII text for incorporation into LIMS or reports



The Hitachi U-3900 is the highest specification system available in standard lab formats and suits the most demanding applications with an enormous range of sample handling accessories including autosamplers.

PRODUCT	CODE
U3900 variable bandpass spectrophotometer	U3900

U-4100 UV-VIS-NIR Instrument from HITACHI

Highest specification UV-Vis-NIR instrument from Hitachi

- Covers a wide range of wavelengths and samples
- Wavelength range from 175nm to 2,500nm
- Specific detection optics for extremely high sensitivity
- Allows accurate measurement of polarization properties in the development of optical components
- Satisfies various analytical needs by combining various special accessories
- A wide array of sampling accessories & large sample compartment options
- A specific liquid sample compartment is available for non-solid studies

The U-4100 suits dedicated UV research or wider wavelength studies. The wide array of sampling accessories and large sample compartment options make this the ideal UV-Vis-NIR spectrophotometer for solid sample or optical component research.



PRODUCT	CODE
U4100 UV-VIS-NIR instrument	U4100

U-5100 UV-VIS Ratio Beam Spectrophotometer from HITACHI

For life science, DNA, RNA & Protein. Low cost, compact, lightweight UV-Vis instrument

With remarkable power savings and a long life xenon light source offering superior performance.

- Ratio beam principle
- New, long life Xenon flash lamp
- Photometric range: -3 to +3 Abs
- Wavelength accuracy: ± 1.0 nm
- 5nm spectral bandwidth
- 190nm -1100nm wavelength range
- New high wavelength scan speed up to 12,000 nm/min
- Stray light: 0.07%
- 6 x 10mm OPL, auto cuvette holder
- 6" LCD display
- Self diagnostic / validation function
- 70% less energy use than U-1900 model
- >50% lighter than U-1900 model
- >40% smaller footprint than U-1900 model
- Qualitative calculation
- Wavelength scan
- Fine scan
- Multi-wavelength scan
- Ratio calculation
- Calibration curves



PRODUCT	CODE
U-5100 ratio beam spectrophotometer (includes 6 x 10mm OPL, auto cuvette holder)	3J2-0015

F-2700 Fluorescence Spectrophotometer from HITACHI

Lowest cost, high performance spectrofluorometer for general purpose fluorimetric assays

- Best signal to noise ratio in its class: S/N 800 or better
- Easy to use with features normally found in instruments twice the price
- Compact and self contained
- In-built LCD display for date, methods, scans
- Optional PC connectability
- Minimum sample size as standard 0.6 mL, 0.1 mL with Micro-cell accessory for DNA studies
- Wavelength range 220 to 730nm standard, optional to 800nm
- Scan speeds from 60 to 3000nm/min (up to 12,000nm/min with PC control)
- Slit width variable; 2.5,5,10 and 20nm
- Wide range of accessories includes powder, liquid and cryogenic sample handling
- Operational modes: Quantitation, Wavelength scan, Time Scan, 3D, QA mode for performance verification
- Applicable to life science, materials science, environmental and petrochemical applications



PRODUCT	CODE
F2700 SpectroFluorometer (includes FL solutions software)	F2700

F-4600 Fluorescence Spectrophotometer from HITACHI

Superior performance research grade spectrofluorometer

- Best signal to noise ratio in its class; S/N 800 or better
- Compact footprint to save on bench space
- Comes with easy to use FL Solutions software
- Minimum sample size as standard 0.6 mL in a 10 mm pathlength cuvette
- 0.1 mL with microcell accessory for DNA studies
- Wavelength range 200 to 900nm standard
- Scan speeds 30, 60, 240, 1,200, 2,400 , 12,000 and 30,000 nm/min
- Slit width variable; Exc 1, 2.5,5,10 Em 1, 2.5, 5, 10 and 20nm
- Wide range of accessories includes solid surface, powder, liquid and cryogenic sample handling, sample sipper, polarisation accessories and more.
- Operational modes: Quantitation, Wavelength scan, Time Scan, 3D, QA mode for performance verification.
- Capable of high end measurements such as FRET (Fluorescence Resonance Energy Transfer) and BRET (Bioluminescence Resonance Energy Transfer)
- Applicable to life science, materials science, environmental and petrochemical applications



PRODUCT	CODE
F4600 SpectroFluorometer	F4600

F-7000 Fluorescence Spectrophotometer from HITACHI

The utmost in research fluorometers with the widest range of accessories

- Extensive application capabilities including biotechnology, pharmaceutical and industrial materials
- Ultra high sensitivity: S/N 800 or better
- Ultra high speed scanning: from 30 nm to 60,000 nm/min ideal for 3-D measurement
- Measures up to 6-digit concentration values
- Conserves bench-space—620(W) mm x 520 (D) mm x 300 (H) mm
- Comes with easy to use FL Solutions software
- Powerful add-on reporter generator software available
- Xenon 150 W lamp with self-deozonating lamp compartment
- Minimum sample size as standard 0.6 mL in a 10 mm pathlength cuvette
- Wavelength range 200 to 750 nm, extendable to 900nm with optional detector
- Slit width variable; 2.5,5,10 and 20nm
- Fluorescence, luminescence, and phosphorescence
- Wide variety of accessories including but not limited to a variety of cell holders, multiple turret sample compartments, microcells, a 96-well microplate reader



PRODUCT	CODE
F7000 SpectroFluorometer	F7000
Quantam Yield Accessory	5J0-0148
Microplate Reader	5J0-0140
Intracellular Calcium option	5J0-0145
Stopped Flow Rapid Kinetics option	TGK-SFA+20

WELCOME ROSS REDWIN

We are pleased to announce that Ross Redwin (founder of KI Scientific Services) and Scientifix have joined forces to offer unprecedented levels of instrumentation service, support and maintenance.

Ross will head the service division and is based in the Scientifix Melbourne office.

Ross is one of the most highly regarded and respected service engineers in the industry with over 28 years' experience.

Welcome Ross.

For all your instrument servicing needs, please contact Ross as follows;

ross@scientifix.com.au or
FreeCall: 1800 007 900

