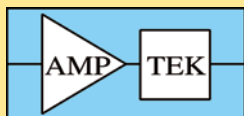


Amptek Inc.

Tel: 781-275-2242
Email: sales@amptek.com
www.amptek.com



FAST SDD® Detector for EDS (SEM)

APPLICATIONS: • Detectors • Energy-Dispersive X-ray Spectrometry (EDS) • Spectrometers (X-ray) • X-ray Analysis Equipment • Scintillators

FEATURES: SDD detectors for EDS-XRF use with SEMs by OEMs. Low energy response of the Amptek FAST SDD® extends down to carbon (C).



<http://www.amptek.com/products/eds-sem-applications-with-c2-window/>

Basler Inc.

Tel: +1 610-717-5517
Email: sales.usa@baslerweb.com
www.baslerweb.com



Digital Microscope Cameras

APPLICATIONS: • Camera/Digital Camera Systems • Cameras, CCD • Cameras, CMOS

FEATURES: Leading digital camera technology (GigE, USB 3.0) and over 25 years of vision technology experience. Basler cameras offer easy integration, compact size, excellent image quality and an outstanding price/performance ratio.



www.baslerweb.com/microscopy

CoolLED Limited

Tel: +1 800-877-0128
Email: info@cooled.com
www.cooled.com



CoolLED PE-Series LED Illumination Systems

APPLICATIONS: • Fluorescence Microscopy • Illuminators (LOM) • Lamps and Light Sources • LED Illumination (LOM) • LED Lamps

FEATURES: Contact CoolLED's U.S. office to learn more about our wide range of LED illumination systems for fluorescence and Optogenetics.



<http://www.cooled.com/products/>

Daylight Solutions, Inc.

Tel: 858-432-7533
Email: mbarre@daylightsolutions.com
www.daylightsolutions.com



Spero Infrared Microscope

APPLICATIONS: • FT-IR Microscopy • Infra-Red Microscopes • Spectrometers (light) • Lasers • Raman Spectroscopy/Microscopy

FEATURES: Spero is the world's first laser-based infrared microscopy platform and provides: • High spatial resolution chemical imaging • Rapid data acquisition • Discrete frequency imaging • Uncooled operation



<http://www.daylightsolutions.com/spero>

Deben

Tel: +44 (0) 1359 244 870;
+1 201 410 5028 (Angstrom Scientific)
Email: paulg@deben.co.uk
www.deben.co.uk



In Situ Testing for Microscopy

APPLICATIONS: Deben manufacture in-situ testing stages as well as innovative accessories for SEM and TEM including SEM detectors, stages, stage automation and Peltier heating & cooling stages.

FEATURES: • Micro CT tensile scanning stages • Centaurus scintillator CL and back scattered electron (BSE) detectors • STEM detectors for SEM • SEM heating and cooling Peltier stages • Microtest tensile and compression stages

<http://deben.co.uk/products/>

Diatome U.S.

Tel: 215-412-8390
Email: sgkcck@aol.com
www.emsdiasum.com



Cryo Immuno

The first cryo knife with a diamond platform and 35° cutting angle that leads to a considerable reduction in mechanical stresses and therefore to improved structure preservation in sucrose-protected samples.

Electron Microscopy Sciences

Tel: 215-412-8400
E-mail: stacie@ems-secure.com
www.emsdiasum.com



EMS-002 Cryo Workstation

The EMS-002 Cryo Workstation is a complete ultra rapid freezing system that captures rapid events and labile structures that are not seen in chemically fixed materials.

Evans Analytical Group

Tel: 408-530-3500
Email: helpdesk@eag.com
www.eag.com/mc



Material Characterization

APPLICATIONS: • Microscopy Services • Surface Analysis • Service Laboratories • Microanalysis Services • Failure Analysis

FEATURES: Providing high quality microscopy services including: SEM, S/TEM, EDS, EELS, EBIC, CL, EBSD, FIB imaging and now: Aberration Corrected STEM services using a Hitachi HD-2700.

www.eag.com/mc

Excelitas Technologies **EXCELITAS** TECHNOLOGIES

Tel: +1 800-668-8752
Email: X-Cite@excelitas.com
www.excelitas.com

X-Cite®

APPLICATIONS: • Fluorescence Microscopy • LED Illumination • Illuminators • Microscope Light Source • LED Lamps

FEATURES: X-Cite® offers innovative and reliable fluorescence illumination solutions for researchers and OEM integrators, with the power, control and stability required for their specific applications.



www.excelitas.com/X-Cite

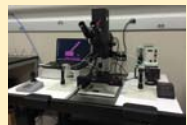
EXpressLO LLC

Tel: +1 321-663-3806
Email: info@EXpressLO.com
www.EXpressLO.com

EXpressLO™ Ex Situ Lift Out System

APPLICATIONS: • FIB Accessories • FIB Lift Out • TEM Grids • TEM Specimen Preparation • APT Specimen Preparation

FEATURES: EXpressLO™ allows fast and easy *ex situ* lift out – no carbon support film needed. No expensive FIB time required. Simple manipulation for routine backside milling reduces curtaining.



www.EXpressLO.com

Hitachi High Technologies America, Inc.

Tel: 800-548-9001
Email: kyoko.ramirez@hitachi-hta.com
www.hitachi-hta.com

Electron, Ion, and Probe Microscopy

APPLICATIONS: • Scanning Electron Microscopes (SEMs) • Transmission Electron Microscopes (TEMs) • Atomic Force Microscopes (AFMs) • Focused Ion Beam Systems • Ion Beam Milling

FEATURES: Advanced solutions for materials science, biological research, and industrial manufacturing. Standard & VP-SEM, TEM & STEM, FIB, tabletop SEM, AFM, and microanalysis sample preparation systems.



www.hitachi-hta.com/products/electron-ion-and-probe-microscopy

HITACHI
Inspire the Next

ibss Group, Inc.

Tel: 415-566-5774
Email: admin@ibssgroup.com
ibssgroup.com



GV10x DS Asher

APPLICATIONS: • Contamination Control • Long mfp Plasma Cleaning • New *In-Situ* Cleaning Paradigm • FIB/SEM/TEM • SIMS/XPS/Review SEM

FEATURES: Unique plasma source is the engine in GV10x DS Asher that provides high power and low pressure long mfp plasma for cleaning chambers and specimens *in-situ*.



ibssgroup.com

JPK Instruments AG

Tel: +49 30-726243-500
Email: Bagordo@jpk.com
www.jpk.com



NanoWizard® ULTRA Speed A AFM

APPLICATIONS: JPK is a leading manufacturer of nano-analytical instruments—atomic force microscope (AFM) and optical tweezers systems—for life sciences and soft matter applications.

FEATURES: • Fast scanning >100 Hz line rate in air and liquid • Atomic resolution in closed-loop mode • Easy-to-use QI™ mode for quantitative material property mapping • Integration with optical microscopy by tip-scanning design and DirectOverlay™ • Force measurements from single molecules to living cells



http://usa.jpk.com/nanowizard-r-ultra-speed-a-overview.830.us.html

LaVision BioTec

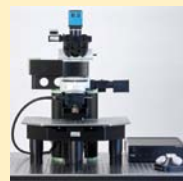
Tel: +49 (0) 521 9151 390
Email: pingel@lavisonbiotec.com
www.lavisonbiotec.com



TriM Scope II 2-Photon Microscope

APPLICATIONS: LaVision develops and manufactures advanced microscopy solutions for life sciences. TriM Scope II - modular multi-photon/confocal microscopy platform; UltraMicroscope II - light sheet microscope platform.

FEATURES: Fast intravital imaging with Cloud and resonant Scanner • FRAP, photoactivation, photostimulation, uncaging and line imaging with Cloud Scanner • SHG and THG imaging with OPO and Ti:Sa laser • Integrated FLIM imaging with LaVision BioTec's FLIM x16 TCSPC detector • Ultrafast 64 beam imaging with up to 100 frames/s @ 2560x2160 pixel



http://www.lavisonbiotec.com/trim-scope-overview.html

Leica Microsystems

Tel: 800-248-0123
 Fax: 846-405-0164
 Email: yourimage@leica-microsystems.com
 www.leica-microsystems.com



Leica EM CPD Critical Point Dryer



APPLICATIONS: • Life Sciences • Materials Science
 • Critical Point Drying • SEM Sample Preparation
 • High-quality Samples

FEATURES: Dries delicate biological or industrial samples in a fully automated, controlled process to preserve surface structure for subsequent treatment and analysis.

<http://www.leica-microsystems.com/products/em-sample-prep/biological-specimens/room-temperature-techniques/drying/details/product/leica-em-cpd300/>

Leica EM VCT100 Vacuum Cryo Transfer System



APPLICATIONS: • Life Sciences • Mounts to Any Vacuum-operated SEM, FIB, SIMS, AFM, or XPS Chamber • Contamination-free Cryo Transfer

FEATURES: Samples are transferred in a well-defined environment, e.g., protective gas or high vacuum from a preparation instrument to analysis unit: can be kept at low-temperature for cryo- techniques.

<http://www.leica-microsystems.com/products/em-sample-prep/biological-specimens/low-temperature-techniques/vacuum-transfer/details/product/leica-em-vct100/>

Leica EM TIC 3X Ion Beam Slope Cutter



APPLICATIONS: • Materials Science • Triple Ion Beam Cutter • Cross-sections for SEM, Microstructure Analysis, and AFM • Sample Preparation • Milling at High Rates

FEATURES: For high-quality cross sections of materials, this instrument features three individually controlled ion beams that can cut up to three deep, broad samples in one process.

<http://www.leica-microsystems.com/products/em-sample-prep/industrial-materials/solid-state-technology/details/product/leica-em-tic-3x/>

Leica EM ACE Series of Coaters



APPLICATIONS: • High vacuum coating for FE-SEM and TEM • Low vacuum coating – Sputter Coating and Carbon Thread • Sample Preparation

FEATURES: The latest advances in automated low vacuum and high vacuum coating systems – one touch coating with a small footprint.

<http://www.leica-microsystems.com/products/em-sample-prep/biological-specimens/room-temperature-techniques/coating/>

Leica EM UC7 Ultramicrotome



APPLICATIONS: • Life Sciences • Sample Preparation for TEM, SEM, AFM, and LM • Room Temperature and Cryo Sectioning • Materials Science • Semi- and Ultra-thin Sections

FEATURES: Provides easy preparation of semi- and ultra-thin sections as well as perfect, smooth surfaces of biological and industrial samples for TEM, SEM, AFM and LM examination.

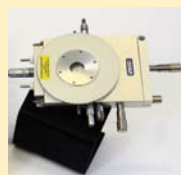
<http://www.leica-microsystems.com/products/em-sample-prep/biological-specimens/low-temperature-techniques/ultramicrotomy/details/product/leica-em-uc7-1/>

Linkam Scientific Instruments

Tel: +44 (0) 1737 363476
 Email: Duncanstacey@linkam.co.uk
 www.linkam.co.uk



THMS600 Heating/Cooling stage



APPLICATIONS: The most versatile heating and cooling stage available. Precise temperature control. Ideal for use with light microscopy, FT-IR, UV, Raman, X-ray, SAXS and Synchrotron.

FEATURES: • -196°C to 600°C temperature range with liquid nitrogen • Heating rate to 150°C/min; cooling rate 100°C/min • 0.1°C accuracy and stability with no overshoot • Options for pressure, vacuum, electrical measurements • Mounts to enable vertical operation in IR or X-ray spectrometers

<http://www.linkam.co.uk/thms600-features/>

CMS196 Cryo CLEM stage



APPLICATIONS: The Linkam Cryo-CLEM stage allows vitrified samples to be imaged in brightfield and fluorescence without contamination. Grids can be mapped to provide correlative information.

FEATURES: • Self-contained cryo correlative system keeping the sample vitrified at constant -196°C • High precision encoded motorized XY with automated mapping • Short start up time with high long-term stability and low drift • Self-aligning magnetic sample cassette system • Integrated condenser optics for transmitted light – brightfield, phase contrast and fluorescence observation

<http://www.linkam.co.uk/clem>

Max Levy Autograph

Tel: 800-798-3675
 Email: tom.cinque@ii-vi.com
 www.maxlevy.com



Microscope Metrology Calibration Tools

APPLICATIONS: • Calibration Standards • Resolution Standards • Rulers • Reference Materials/Reference Standards • Accessories

FEATURES: MLA produces an array of image qualification products to evaluate any microscope or vision system. Components include reticles, resolution, distortion, MTF, and gray scale targets.

<http://www.maxlevy.com/category/vision-tools.html>

McCrone Microscopes & Accessories



Tel: 630-887-7100
 Email: lbolin@mccrone.com
<http://www.mccrone.com>

NeoScope II Benchtop SEM



APPLICATIONS: • Benchtop Electron Microscopes • Camera/Digital Camera Systems • Digital Microscope • Freeze Drying Equipment • Heating Stages

FEATURES: Widest magnification range 10X-60,000X • No special sample prep • EDS for elemental analysis • Images in under 3 minutes • Intuitive touchscreen interface

<http://www.benchtopsem.com/>

Microtome Service Company

Tel: 315-451-1404
 Email: mitch@MicrotomeServiceCo.com
<http://www.microtomeserviceco.com>



Microtome Sales, Service, and Parts
APPLICATIONS: • Microtomes and Ultramicrotomes • Microtome Repair • Knifemakers • Service and Repair • Fabricate & modify lab equipment
FEATURES: Sales, service of Sorvall, DuPont and RMC Microtomes and GKM Knife Makers. Microtome & Lab accessories fabrication and modifications to meet your specific needs.

http://microtomeserviceco.com/index.php?route=information/information&information_id=7

NanoMEGAS USA

Tel: 480-389-6816
 Email: robert@appfive.com
www.nanomegasusa.com

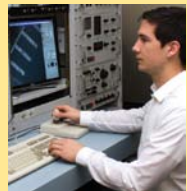


Topspin Experiment Framework for (Transmission) Electron Microscopy
APPLICATIONS: • Transmission Electron Microscopes (TEM) • Software for Microscopy • Electron Backscatter Diffraction • Energy-Dispersive X-Ray Spectrometry (EDS) • Scanning Electron Microscopy (SEM)
FEATURES: Novel (S)TEM experiments enabled by synchronized beam scanning, beam precession and advanced analysis • Strain, Orientation, and Phase Mapping • Nanocrystal Characterization • Enhanced EDX/EELS Spectroscopy • *in-situ* microscopy

www.nanomegasusa.com

Oregon Physics

Tel: +1 503-601-0041
 Email: info@oregon-physics.com
www.oregon-physics.com

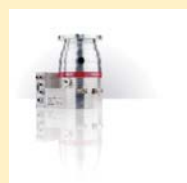


Plasma FIB Service Laboratory
APPLICATIONS: • Ion Beam Milling • Microscopy Services • Plasma FIB Service Laboratory • Sample Preparation • Service Laboratories
FEATURES: Save days or weeks of research time for samples 50µm to 1mm. Large area cross sections; micromachining slits and apertures; 3D FIB tomography; sample preparation.

www.oregon-physics.com

Pfeiffer Vacuum

Tel: 800-248-8254
 Email: Jgiambartolomei@pfeiffer-vacuum.com
www.pfeiffer-vacuum.com



HiPace turbopumps
APPLICATIONS: • Vacuum Equipment • Mass Spectrometers/Residual Gas Analyzers • Gauges, vacuum • Leak Detection
FEATURES: HiPace® turbopumps offer the clearest image utilizing hybrid or magnetic bearing systems resulting in low vibrations, low magnetic stray field and long-term stability and reliability.

<http://www.pfeiffer-vacuum.com/products/turbopumps/container.action>

Protochips

Tel: 919-341-2612
 Email: megan@protochips.com
www.protochips.com



Atmosphere Environmental Gas Cell
APPLICATIONS: • Catalysis • Fuel Cells
FEATURES: Capability to precisely control gas environment at pressures up to 1 ATM and temperatures up to 1000 °C • SmartTemp™ closed-loop temperature control for constant known temperature with any gas species or pressure • Fully EDS compatible

<http://www.protochips.com/products/atmosphere-gas-environmental-cell.html>

Rigaku Corporation

Tel: +1-512-225-1796
 Email: michael.nelson@rigaku.com
www.rigaku.com



Rigaku nano3DX
APPLICATIONS: • X-ray Microscope • Computed Tomography
FEATURES: Nano3DX is a X-ray microscope (XRM) with the ability to measure relatively large samples at high resolution using a high powered rotating anode X-ray source and a CCD imager.

<http://www.rigaku.com/products/xrm/nano3dx>

SPI Supplies

Tel: 610-436-5400
 Email: sales@2spi.com
www.2spi.com



UV Prep
APPLICATIONS: • Materials Science • Life Science • Semiconductor • Low Voltage Imaging • Failure Analysis
FEATURES: The UV Prep is designed to remove hydrocarbon contamination from a sample surface prior to FE-SEM examination. The result is enhanced imaging and resolution at low accelerating voltages.



Plasma Prep™ III
APPLICATIONS: • Materials Science • Life Science • Semiconductor • Asbestos • Failure Analysis
FEATURES: Solid state RF generator capable of 1 to 100W operations; Low Temperature asher/etcher; small footprint; 4" diameter x 6" depth Pyrex or Quartz Chamber; Optional Process Controller; Optional system for cleaning TEM Specimen Holders.



Wet Cell II
APPLICATIONS: • Materials Science • Life Science • Microfluidic Analytical Techniques • Self-contained Interface • Vacuum Compatible
FEATURES: The next generation device for the examination of liquids in SEM/EDS and TOF-SIMS instruments. The self-contained high vacuum compatible device enables the analyst to characterize a fluid in its natural state.

Sutter Instrument

Tel: 415-883-0128
Email: alex@sutter.com
www.sutter.com



SmartShutter™

APPLICATIONS: Shuttering, Fluorescence Microscopy, Life Sciences, Imaging Hardware

FEATURES: • Life tested to 100 million cycles • Complete opening time 8 msec from trigger • Select partial opening function for neutral density capability • "Soft" mode provides minimum vibration • Stand alone, or use with Sutter filter wheel



Lambda XL

APPLICATIONS: Microscope Illumination, Fluorescence Microscopy, Life Sciences, Imaging Hardware, OEM Illumination

FEATURES: • 10,000 hour expected lifetime for bulb • No high-voltage pulse • Highly stable output (less than ±1% fluctuations) • Built-in driver for Sutter filterwheel and SmartShutter • Low light loss through bulb life



Lambda DG-4 / DG-5 PLUS

APPLICATIONS: Fluorescence Microscopy, Ratio-metric Imaging, Wavelength Switching, Imaging Hardware, Life Sciences

FEATURES: • 0.5 msec switching between filters • Integrated light source and wavelength switching excitation system • Holds four or five interference filters and one neutral density filter • Light guide output provides uniform illumination • Direct computer control via parallel or serial interface



Lambda 10-3

APPLICATIONS: Fluorescence Microscopy, Ratio-metric Imaging, Wavelength Switching, Imaging Hardware, Life Sciences

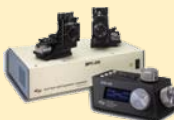
FEATURES: • As fast as 40 msec between adjacent filters (10 position wheel) • As fast as 31 msec between adjacent filters (4 position wheel) • Can control up to 3 wheels and 2 shutters, or 2 wheels and 3 shutters • Compatible with SmartShutter™ stepper-motor controlled shutter • Controls a variety of 12, 25, 32, and 50 mm filterwheels



MPC-385 / MPC-325

APPLICATIONS: Life Sciences, Micromanipulation, Electrophysiology

FEATURES: • Single controller and ROE will run 2 stepper motor drive manipulators • User-friendly interface: single button access to all major functions • Accelerated mode for fast, manual manipulator movement • Definable 4th axis for coaxial pipette movement • Ultra-low drift, ultra-smooth movement.



SOM—Simple Moving Microscope

APPLICATIONS: • Fluorescence Microscopy • *In vivo* microscopy • *In vitro* microscope • Life sciences • Photostimulation

FEATURES: The SOM is a small, simple microscope designed to allow a single experimental setup to be used for both *in vivo* and *in vitro* experimentation.



Ted Pella, Inc.

Tel: 800-237-3526
Email: sales@tedpella.com
www.tedpella.com



High Resolution FE-SEM Sputter Coaters

APPLICATIONS: Life Sciences, Materials Science, Semiconductors, SEM

FEATURES: • Grain-free, ultra-thin uniform and conform coating • Wide choice of operating parameters to accommodate all sample types • Purpose designed with optimized vacuum pumping system • Includes Rotary-Planetary-Tilting stage and high resolution thickness controller • Easy to operate with fast cycle times



www.tedpella.com/crossington.htm

PELCO BioWave® Pro

APPLICATIONS: Processing for EM, Light Microscopy, Immunolabeling and Decalcification

FEATURES: • Prevents heat damage • Rapid specimen turnaround • Variable power processing • Pre-programmed protocols



www.tedpella.com/BioWave.htm

PELCO easiGlow™

APPLICATIONS: Life Sciences, Materials Science, TEM, Tomography

FEATURES: • Precise and easy vacuum settings • Short cycle times • Consistent results • Intuitive touch screen for control and display • Supports hydrophilic/hydrophobic and negative/positive modes



www.tedpella.com/easiGlow.htm

PELCO® Silicon Nitride Support Films and TEM Supplies

APPLICATIONS: TEM, STEM, Thin Film Research, Life Sciences, Materials Science

FEATURES: • Debris-free and resilient films • Available membrane thickness of 8, 15, 35, 50 and 200nm • 3 mm diameter frame fits perfectly in TEM holders • EasyGrip™ edges for improved handling



www.tedpella.com/TEM-supplies.htm

PELCO® Modular SEM Sample Holders and Q Pin Stubs for Correlative Microscopy

APPLICATIONS: SEM, FE-SEM, FIB, FIB/SEM, CLEM

FEATURES: • Stage adapters for all major SEM brands • Large selection of effective and practical sample holders • Correlative microscopy square sample holders



www.tedpella.com/SEM-supplies.htm

Thermo Fisher Scientific

ThermoFisher
SCIENTIFIC

Tel: 1 800-532-4752
Email: info.microanalysis.us@thermofisher.com
www.thermoscientific.com/spectroscopy

NORAN System 7 X-ray Microanalysis System

APPLICATIONS: • Energy-Dispersive X-ray Spectroscopy (EDS) • Wavelength-Dispersive X-ray Spectroscopy (WDS) • Electron Backscatter Diffraction (EBSD) • Raman Spectroscopy/Microscopy • FT-IR Spectroscopy/Microscopy

FEATURES: Specializing in intuitive, easy to use microspectroscopy that eliminates operator bias for consistent results. We are the world leader in serving science. When results count, count on us.



www.thermoscientific.com/microanalysis

XEI Scientific, Inc.

Tel: 650-369-0133
 Email: sales@evactron.com
 www.Evactron.com



Evactron® 25Z De-Contaminator

APPLICATIONS: SEM, FIB, and vacuum chamber remote plasma cleaner; carbon removal from vacuum chamber.

FEATURES: Uses air to make oxygen radicals • Pre-set cleaning recipes • Available computer interface • Simple operation • Table top controller • Fast Zephyr mode cleaning at < 20 mTorr



<http://evactron.com/25zephyr>

Evactron® 45Z and 40Z De-Contaminators

APPLICATIONS: SEM, FIB, and vacuum chamber remote plasma cleaners; carbon removal from vacuum chamber.

FEATURES: Use air • Pre-set cleaning recipes • Available computer interfaces • Simple operation • Rack mounted controllers • Fast Zephyr mode cleaning at < 20 mTorr



<http://evactron.com/evactron45> ; <http://evactron.com/evactron40>

Evactron® SoftClean™ Chamber

APPLICATIONS: Desktop plasma cleaning of specimens; uses one PRS for SEM and specimen cleaning; cleaning without sputter etching

FEATURES: 3 ports for TEM stage holders • Top opening chamber lid for SEM samples • RF shield built into lid • Includes vacuum cutoff valve • Uses air for cleaning gas



<http://evactron.com/softclean>

Evactron® Plasma Radical Sources

APPLICATIONS: Make oxygen radicals from air or oxygen gas; make hydrogen radicals from H₂; plasma light sources.

FEATURES: A variety of size and appearance options • Built-in pressure measurement • Built-in gas flow control • Compact size • Easy mounting



<http://www.evactron.com/images/files/prs-v.pdf>;
<http://www.evactron.com/images/files/2012PRSu.pdf>;
<http://www.evactron.com/images/files/prs-p.pdf>

Phenom personal SEM
 +
 Speed. For you.

phenom-world.com



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MICROSCOPY & MICROANALYSIS

August 2-6 • Portland, OR



<http://microscopy.org/MandM/2015>



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