

Elution Position Controllable Flash Chromatography Systems

Lineup of Smart Flash



YAMAZEN CORPORATION

This document is given for information and can change following technical update or model upgrade - TecDev 07/2025

Smart Flash Premium



“Premium” Functions

Premium model of Smart Flash equipped with a highly sensitive UV detector. A simultaneous 2-wavelength detector is also available as an option. Smart Flash “Premium” maximizes the efficiency of the sample purification; it is equipped with Inject mode and other value-added powerful functions.

Variable wavelength UV	Price: to be quoted
UV/VIS	Price: to be quoted

Smart Flash AI-580S



Standard model

Economically priced standard model for a personal use. It is equipped with excellent functions and is based on the true theory of the flash chromatography, supported by EPC (Elution Position Controllable) equation, and this model always achieves high resolution in sample purification.

Fixed wavelength UV	EPCLC-AI-580S-254	Price: to be quoted
Variable wavelength UV	EPCLC-AI-580S-10V	Price: to be quoted
UV/VIS	EPCLC-AI-580S-UV/VIS-10V	Price: to be quoted

Smart Flash AKROS



Equipped with TLC Image Reader Method Navigation System

Equipped with TLC Image Reader, this system provides a perfect method transfer from TLC to Gradient column chromatography based on EPC (Elution Position Controllable) theory. Streamlined from TLC to optimized purification, it also achieves high resolution and high efficiency in sample purification with substantially less solvent gearing toward green chemistry.

Fixed wavelength UV	EPCLC-AKROS-254	Price: to be quoted
Variable wavelength UV	EPCLC-AKROS-10V	Price: to be quoted
UV/VIS	EPCLC-AKROS-UV/VIS-10V	Price: to be quoted

Smart Flash **Flash-MS**



Flash-MS System

Yamazen Smart Flash MS System efficiently and accurately detects and identifies the target compound in normal phase flash chromatography with APCI ionization method. Sample separation and identification can be done at the same stage, which enhances the efficiency of not only sample separation but also research of organic synthesis.

Smart Flash-HR Premium-MS	Price: to be quoted
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Smart Flash **W-Prep2XY**



Dual-channel System System with Small Foot Print

This dual channel system achieves the most efficient sample separation which is essential for researchers of organic synthesis. This is compact, space-saving and cost-saving. Two channels work independently and simultaneously to boost productivity.

Fixed wavelength UV	EPCLC-W-Prep2XY-254W	Price: to be quoted
Variable wavelength UV	EPCLC-W-Prep2XY-10VW	Price: to be quoted
UV/VIS	EPCLC-W-Prep2XY-UV/VIS-10VW	Price: to be quoted

Smart Flash **AI-700X**



High Flow Rate Model, handles Large Columns.

Maximum flow rate of this series is 400ml/min. High resolution in sample separation is achieved based on EPC theory with the use of column size of up to 20cm in diameter.

Fixed wavelength UV	EPCLC-AI-700X-254	Price: to be quoted
Variable wavelength UV	EPCLC-AI-700X-10V	Price: to be quoted
UV/VIS	EPCLC-AI-700X-UV/VIS-10V	Price: to be quoted

Optional TLC Products

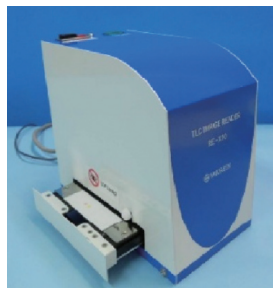
TLC-Reader-Extractor



TLC illuminated under UV is captured and stored on PC. Any sample spot can be extracted and its MS spectrum can be detected and monitored.

Connection : MS spectrometer
Price : to be quoted.

TLC-Reader



TLC illuminated under UV is captured and stored on PC. Adding a TLC image reader to an existing Yamazen flash system, it becomes equivalent to AKROS.

Price : to be quoted.

Optional Detectors

Flash-MS



Yamazen MS spectrometer can be added on to the existing Yamazen flash system in the field.

Smart-Flash-MS
Price : to be quoted.

Interface for Smart Flash MS
Price : to be quoted.

ELSD, RID



Evaporative Light Scattering Detector

ELSD-100X
ELSD with wide dynamic range capable of detecting samples from 0.1mg to 10g
Price : to be quoted.

Refractive Index Detector
RI-31B
Price : to be quoted.

Other optional accessories

External nozzle flush system



To avoid contamination in chromatography, both inside and outside of the fraction nozzle are flushed.

Solvent and waste sensor system

Avoids dry-run and prevents waste overflow

Air purge pump

Drain solvent in a column promptly and safely after the chromatography

Manufacturer:



YAMAZEN CORPORATION



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