ASPHIRE <u>SPECTRO</u>

We Believe in Service

ASPHIRE SPECTOMETER

ASPHIRE SPECTRO



ACCURATE

■ PROFICIENT ■ CREDIBLE An ISO 9001:2015

OVERVIEW

Established in 2016, Asphire System provides a wide range of Optical Emission Spectrometer, concomitant accessories & services to meet the Spectro-chemical needs of the metal industries. Our product portfolio covers Optical / Spark Emission Spectrometers, sample preparation machines, argon purifiers, small sample adapters, and mag netic holders for Spectrometers.

The company founder has a vast experience of over 16 years , serving the needs of industry & has a true experience spread across the globe.

Asphire system is beneficial to the industry for Micro, Small & Medium Enterprises, and clusters. The company is working to ensure that every industry has a spectrometer to deliver the highest value for their specific applications for producing quality material & services. Our product philosophy is driven by the focus on offering a range of tailor -made models to meet specific customer needs – both analytical & economic. On the outset, we offer the world's widest span of high -end R&D grade model s with wavelengths positioned to be best in class in terms with class & economic value.

On application front, Asphire S ystem is having an in-house R&D & Applicat ion team, we routinely develop and upgrade software, hardware solutions & applications that are customized to meet the specific needs of specific clients.

We developed all our off erings – products, applications & services – with the commitment to deliver the highest standards of quality, reliability & uptime. We also of fer the lowest life -cycles cost through low maintenance cost, backed with routine follow up on our installed machines & aftersales support to our esteemed clients.

Our solutions have helped clients improve the quality of their products & also provide cost competitive solutions w.r.t. the competition & save revenue through material cost savings, elimination of rework/ rejections, drastic improvements in productivity & of course in the research & development process es.

Presently, our instruments are backed by several leading companies across the whole dimens ion of industries, both in private sector, public sector & geographical market. With the rapid increase of Asphire System footprints, we have expanded our installation base to 500 + customers in India & rapidly expanding to the international market.



Asphire AS-S2 Technical Specifications

CMOS/CCD Optics	 High resolution CMOS/CCD Dual detectors Stabilized against temperaturefluctuations Effective wavelength range: 170-410 nm, the applicable and configured wavelength range is based on the customer's application requirements 	Spectrometer PC (minimum configuration)	 Intel® Core™ i3/i5/i7 8 GByte RAM 500 GB SSD DVD +/- RW Drive Graphic adapter USB ports Audio sound card 2 Network adapters Windows 10/11™ 64 Bit Professional Operating System Keyboard and mouse 	Asphire Spectro Model AS-S2 is an Optimum Decision to the quick analysis with high accuracy and precision for the customer. These Laboratory Instruments ca work due to the excitations of the electrons via the addition of energy which is in the form of some wavelength of the electromagnetic radiation which i usually light or ultraviolet.			
Analysis Modules	Optimized to customer requirements		MonitorPrinter	AS-S2 is an advanced CCD based Optical Emission Spectrometer and have the single base and mult			
Spark Stand	• Open spark stand for high sample	Software	 Asphire Analytical Software for analytical operation and calibration 	matrices (Ferrous, Aluminum, Copper, Nickel, Zinc, Tin, Lead, Titanium etc.) for Metal Analysis. AS-S2 is one of the lightest ultra - compact spark Emission, Excellent performance, and competitive price. AS-S2 Model have 15+ elements.			
	throughput and various kinds ofsample geometries Minimized argon consumption Controlled with Software		 Continuous automatic hardware diagnosis in the background Result Manager Maintenance Scheduler 				
	 Optimized argon flow Reduced cleaning intervals Spark stand plate easily exchangeable 	Environmental Conditions	 Room temperature: 18-28°C maintained with AC Relative humidity: <80 %, non-condensing 				
Excitation System.	Fully digitalized plasma generator with digital discharge definition, digital pulse generation and digital offline pulse control		 Atmosphere: free of corrosive vapors and high dust pollution 				
	Max. spark frequency: 1000 Hz	Spectrometer Data	 220 V 50 Hz 1 Ph. Earthing below 1 V Max. 800 VA during sparking 				
Readout System	Single board readout system Dedicated controlled System for each CCD detector		 Version (Higher End): Benchtop Floor model Depth: 700 mm 700 mm Width: 600 mm 600 mm Height: 400 mm 1250 mm Weight: 60 kg 100 kg 				

maximize productivity with reliable metals analysis • Ferrous •Non-ferrous metals •Alloys

Asphire AS-S1 Technical Specifications

CMOS/CCD

Optics

Analysis

Modules

Spark Stand

Excitation

System.

Readout

System

Spectrometer • Intel® Core™ i3/i5/i7 • High resolution CMOS/CCD PC (minimum • 8 GByte RAM multi detectors configuration) • 500 GB SSD Stabilized against DVD +/- RW Drive temperaturefluctuations Graphic adapter Effective wavelength range: USB ports 170-430 nm, the applicable and Audio sound card configured wavelength range is 2 Network adapters based on the customer's application Windows 10/11[™] 64 Bit Professional Operating System requirements Automated profiling Keyboard and mouse Monitor • Optimized to customer requirements Printer • Expansion of additional modules <u>Software</u> • Asphire Analytical Software on-site possible for analytical operation and calibration Continuous automatic hardware diagnosis in the background • Open spark stand for high sample Automatic alloy verificationand throughput and various kinds identification ofsample geometries Result Manager Minimized argon consumption Maintenance Scheduler Controlled with Software Optimized argon flow Environmental • Room temperature: 18-28°C Reduced cleaning intervals Conditions maintained with AC Spark stand plate easily exchangeable Relative humidity: <80 %, non-condensing Fully digitalized plasma generator with Atmosphere: free of corrosive vapors digital discharge definition, digital pulse and high dust pollution generation and digital offline pulse control Spectrometer • 220 V 50 Hz 1 Ph. Earthing below 1 V Max. spark frequency: 1000 Hz Data • Max. 800 VA during sparking Version (Higher End): Single board readout system Benchtop Floor model Dedicated controlled System Depth: 800 mm 800 mm for each CMOS/CCD detector 700 mm Width: 700 mm Height: 450 mm 1250 mm

Asphire Spectro Model AS-S1 is an Optimum Decision to the quick analysis with high accuracy and precision for the customer. These Laboratory Instruments can work due to the excitations of the electrons via the addition of energy which is in the form of some wavelength of the electromagnetic radiation which is usually light or ultraviolet.

ASPHIRE SPECTOMETER

AS-S1 is an advanced CCD/CMOS based Optical Emission Spectrometer and have the multi base and matrices (Ferrous, Aluminum, Copper, Nickel, Zinc, Tin, Lead, Titanium etc.) for Metal Analysis.

AS-S1 is one of the lightest ultra - compact spark Emission, Excellent performance, and competitiv e price. AS-S1 Model have 25+ elements and we can also upgrade as per customer requirements

maximize productivity with reliable metals analysis • Ferrous •Non-ferrous metals •Alloys

120 kg

Weight: 70 kg

Asphire AS-S3 Technical Specifications

CMOS/CCD

Optics

Analysis

Modules

Readout

System

- High resolution CMOS/CCD multi detectors
- Stabilized against
- temperaturefluctuations • Effective wavelength range: 115-800 nm, the applicable and configured wavelength range is based on the customer's application requirements Automated profiling
- Optimized to customer requirements • Expansion of additional modules on-site possible
- Spark Stand • Open spark stand for high sample throughput and various kinds ofsample geometries
 - Minimized argon consumption Controlled with Software
 - Optimized argon flow
 - Reduced cleaning intervals
 - Spark stand plate easily exchangeable
- Excitation Fully digitalized plasma generator with System. digital discharge definition, digital pulse generation and digital offline pulse control Max. spark frequency: 1000 Hz

Single board readout system Dedicated controlled System for each CMOS/CCD detector

- Spectrometer Intel® Core[™] i3/i5/i7 PC (minimum • 8 GByte RAM
- configuration) 500 GB SSD
 - DVD +/- RW Drive
 - Graphic adapter
 - USB ports
 - Audio sound card
 - 2 Network adapters
 - Windows 10/11[™] 64 Bit
 - Professional Operating System Keyboard and mouse
 - Monitor
 - Printer

Software

Conditions

- Asphire Analytical Software for analytical operation and calibration
- Continuous automatic hardware diagnosis in the background
- Automatic alloy verification and identification
- Result Manager
- Maintenance Scheduler
- Environmental Room temperature: 18-28°C
 - maintained with AC
 - Relative humidity: <80 %. non-condensing
 - Atmosphere: free of corrosive vapors and high dust pollution

Spectrometer • 220 V 50 Hz 1 Ph. Earthing below 1 V Data

- Max. 800 VA during sparking
- Version (Higher End): Benchtop
- Floor model Depth: 800 mm Width: 700 mm

800 mm

700 mm

1250 mm

Height: 450 mm

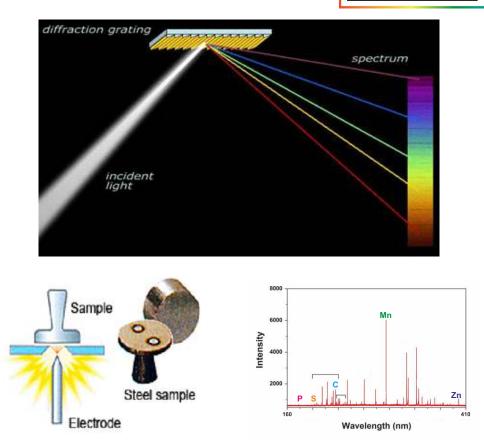
Asphire Spectro Model AS-S3 is an Optimum Decision to the quick analysis with high accuracy and precision for the customer. These Laboratory Instruments can work due to the excitations of the electrons via the addition of energy which is in the form of some wavelength of the electromagnetic radiation which is usually light or ultraviolet.

AS-S3 is an advanced CCD/CMOS based Optical Emission Spectrometer and have the multi base and matrices (Ferrous, Aluminum, Copper, Nickel, Zinc, Tin, Lead, Titanium etc.) for Metal Analysis.

AS-S3 is one of the lightest ultra - compact spark Emission, Excellent performance, and competitiv e price. AS-S3 Model have 55+ elements and we can also upgrade as per customer requirements.

maximize productivity with reliable metals analysis • Ferrous •Non-ferrous metals •Alloys

ASPHIRE AS ASPHIRE



A TYPICAL ANALYTICAL RESULT RESULT OF ASPHIRE OES

ain <u>A</u> nalyse <u>F</u> unction	n <u>i</u> mplement <u>i</u>	<u>H</u> elp							
New Sample 📢 From SD File ॷ Save Burn 💥 Delete Burn 👋 To Excel 🔗 Setting 📓 Report 🔹									
Select Channel	C	0.4229	0.4118	0.4043	0.4014	0.4101	0.0096		
11111 · 2 · · · · · · · ·	Si	0.2884	0.2933	0.2890	0.2924	0.2908	0.0024		
Para di di di sata a	Mn	0.5547	0.5554	0.5561	0.5493	0.5539	0.0031		
Stan <u>d</u> ardisation	P	0.0047	0.0050	0.0050	0.0050	0.0049	0.0001		
	S	<0.0010	<0.0010	<0.0010	<0.0010	< 0.0010	0.0000		
S <u>c</u> an	Cr	1.5118	1.5093	1.5104	1.4960	1.5069	0.0073		
	Mo	0.3222	0.3140	0.3117	0.3067	0.3137	0.0064		
	Ni	0.1446	0.1446	0.1433	0.1416	0.1435	0.0014		
<u>R</u> etrieve Data	Al	1.0907	1.1066	1.0996	1.0724	1.0923	0.0148		
	Cu	0.1360	0.1336	0.1345	0.1342	0.1346	0.0010		
top Initial Purge	Ti	0.0090	0.0091	0.0090	0.0089	0.0090	0.0001		
	V	0.0024	0.0044	0.0030	0.0037	0.0034	0.0008		
	Со	0.0072	0.0070	0.0070	0.0071	0.0071	0.0001		
<u>Ex</u> it	В	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000		
	Sn	0.0058	0.0058	0.0059	0.0060	0.0059	0.0001		
	N	0.0033	0.0031	0.0032	0.0030	0.0032	0.0001		
	Mg	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000		
	Fe	95.4563	95.4590	95.4817	95.5383	95.4838	0.0381		

ASPHIRE <u>Spectro</u>

OUR PRESENCE





customer satisfaction

SOME OF OUR ESTEEMED CUSTOMERS





ASPHIRE SPECTRO

Asphire System OPC Pvt. Ltd.

Manufacturing Plant: 999, Gandhi Colony, NIT Faridabad - 121001 Asphire Tower: NH, 5/51, Opp. Hotel Miraj, NIT, Faridabad-121001(HR.) Contact: 0129-4042225, +91 9311816521 Email: info@asphirespectro.in | sales@asphirespectro.in Website: www.asphirespectro.in