



Metavision 108M

High performance on wheels



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High performance on wheels

### Mobility – Getting OES to add value outside the Lab

Not every metal testing application is conducive to having samples prepared carefully and tested on the best optical emission spectrometers (OES) in the environs of a Laboratory. Several applications are such that testing of this type (within a Laboratory) is neither feasible, nor required. Typical examples of such applications include the need for rapid sorting of scrap, grade identification and sorting of materials in a yard, quick testing of materials at the in-gates of plants or validation of large products or their joints on large vessels (ships, for example).

As the application needs change, so do the design imperatives. Mobile OES require a completely different approach to design and applications – and this is reflected best in our Metavision M-series Mobile OES. Built specifically to address testing needs that mandate testing outside the Laboratory, our M-series models are optimized in every aspect that's critical to make an OES truly mobile, without sacrificing the required level of performance.

### Exceptionally compact and agile!

Full Grades' Library for rapid PMI (<10s even on the UV probe!)

Shock-proof; dust-proof; splash-proof!

Fully Integrated self-contained unit

All manner of probes and adaptors



- 15" capacitive touchscreen
- Rugged Built in Keyboard
- Easy-change probe conduits (<10 seconds!)
- Ultra long-life field-swappable battery
- Rubberised Wheels for easy mobility

## Metavision 108M

High performance on wheels

**built to withstand  
the shop-floor**



Mobile OES are required to work in really harsh conditions. From foundry / forging / rolling mill shop-floors to scrapyards, shipbuilding/breaking centres, railways workshops and beyond, mobile OES need to be capable of withstanding conditions no benchtop OES would ever encounter. Reflecting this, the Metavision-108M addresses each aspect of mobility without compromising on ruggedness!

### Arc, Spark, UV... and Carbon on them all!

With a wide range of probe options, the Metavision-108M is designed to ensure that every single need can be addressed with the minimum of fuss.

Indeed, our Combi-probe options ensure that even the need to change probes on field is minimized. That said, such is the design that changing probes is easier done than said! With minimum fuss, and just 2 clicks, you can swap probes on-field in a matter of seconds.

The probes are highly optimized for both elemental coverage as well as speed, with Carbon analysis offered on all probes (including Arc).

### High-speed; the key requirement for mobile analyses

With a mobile OES, speed of analysis is an essential attribute. Not only does it make for more convenience, but this also enables higher volume of testing – something that's particularly valuable when segregating or evaluating scrap.

The Metavision-108M offers highly optimized analysis times, down to <3s in Arc mode, <6s in Spark and <10s on the UV probe. This makes the instrument ideal for just about any application without causing wrist fatigue!

### Redefining the limits of true mobility

The Metavision-108M consumes low power – and comes equipped with a light and long-life field-swappable battery! The combination ensures hours of sustained use even in places with no Mains power supply.

A single battery charge covers well over half a day of usage (even with the UV probe), contributing to peace of mind and reducing the variables one needs to account for at site.

### Applications – covering every requirement

The Metavision-108M offers a dedicated mode for PMI (Positive Material Identification). Also, sorting / grade acceptance results are displayed on-probe as well!

While the Arc / Spark probe options offer on-probe LED displays, the UV probe comes equipped with a high resolution on-probe touchscreen, not just displaying the results of the analysis but also offering users the ability to control operations from the probe itself, without having to travel to the trolley unit.

Combined with an in-built Grades' Library containing hundreds of thousands of grades (across various standards), the Metavision-108M is ideally suited to PMI needs.

The Metavision-108M also comes equipped with the widest range of adaptors including those for curved surfaces, edges, wires and rods, odd shapes etc.

### Ergonomics – designed for convenience!

The Metavision-108M has been designed to be the most convenient mobile OES imaginable and addresses every conceivable need and goes well beyond them too!

The computer, and all input-output and human interface devices are fully integrated making the unit completely self-sufficient.

The OES offers both touchscreen input as well as a robust keyboard and touchpad.

The screen itself offers exceptionally wide viewing angles and is optimized for the widest range of brightness, making it easy to view results both inside covered yards / rooms and in the outdoors.

Probes are highly optimized for weight and balance – ensuring that users do not experience wrist fatigue and that no more than normal strength is required to ensure firm contact during analysis.

Additionally, the touchscreen on the UV probe offers users a wide array of information as well as OES control options.

### Representante Exclusivo

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### Insulation to the environment

The Metavision-108M – like its larger and higher-end sibling the Metavision-1008M<sup>3</sup> – comes with a self-sufficient and integrated trolley that contains every element of the OES with complete insulation to the external environment. The unit is designed to ensure that it can withstand a very wide range of operating temperatures without compromising outputs.

The integrated trolley also ensures that the instrument is completely dust-proof! This makes it ideally suited even for applications in the environment of foundries and metal manufacturing plants.

### Robustness – pure beast strength that belies the beauty outside

Being fully self-contained, the Metavision-108M doesn't need any loading, unloading or assembly of any manner. This also ensures that the unit is highly rugged and safe with no risk of damage from components falling to the ground. The wheels and suspension are designed to withstand undulating and uneven ground as well as smoothly maneuver around and / or over wires and rods lying on the ground. Every single component on the Metavision-108M has been selected keeping in mind that the instrument not just could, but most likely shall be subjected to harsh environments in every manner imaginable.

**With Metavision-108M you get 100% Mobility, 0% Compromise!**

### Key Specifications:

**Wavelength span:** 160-420 nm (with UV probe); 190-420 nm (Spark / Arc probe)

**Display:** 15" Capacitive Touchscreen (on trolley)

#### Probe options\*:

Arc: <3s analysis time; Spark: <6s analysis time

UV (with touchscreen): <10s analysis time

Combined probes: Mode-dependent analysis times as indicated above

#### Adaptors:

Individual adaptors or sets available as per requirements (optional)

#### Battery life:

Spark Probe: 2,000 burns

UV Probe: 900 burns

\*Note: Analysis times and battery life are typical values obtained for analysis on the Low Alloy Steels matrix

## Presenting the Big Brother Metavision-1008M<sup>3</sup> – a high end mobile lab on wheels.

### Metavision 1008M<sup>3</sup>

Wheel your Lab to the Sample

Built specifically to address testing needs that mandate high quality testing outside the Laboratory, the Metavision-1008M<sup>3</sup> delivers high quality performance while offering all the flexibility, agility and convenience of mobile OES.



- 15" capacitive touchscreen
- Rugged Built in Keyboard
- Easy-change probe conduits (<10 seconds!)
- Ultra long-life field-swappable battery (1,000 burns per charge)
- Rubberised Wheels for easy mobility

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Our other products

**Metavision 10008X**

The zenith of sensitivity



**Metavision 1008i<sup>3</sup>**

When excellence is not good enough



**Metavision 1008i**

Laboratory Powerhouse



**MOSS**

Compact and affordable



**H/SCAN**

Rugged, accurate & economical



**Argon Purifier+**

For better analysis



**CleanSharp**

The Brushless Wonder



Wire Adaptors



Sampling Mould



Sample Surface Preparation Machines



Certified Reference Materials



Proficiency Testing Services



Founded in 1987 Metal Power provides a comprehensive range of products, applications and services to meet the analytical needs of metal industries. Our product portfolio spans Laboratory Optical / Atomic Emission Spectrometers (OES / AES), Mobile Spectrometers, Hydrogen analysers for molten Aluminium, Certified Reference Materials (CRM), Sample Preparation Machines for spectrometers as well as a wide range of accessories.

Apart from the product range, Metal Power through its Laboratory Division also offers services in Material Analyses and Proficiency Testing for other laboratories. Today the Company boasts over 30 years of experience serving the needs of ferrous and non-ferrous metals industries and has a truly global presence, spread across more than 35 countries in 5 continents.

True pioneers in the field of CMOS/CCD-based Optical Emission Spectrometers, our product philosophy is driven by the focus on offering a tailored model to meet every customer need – both analytical and financial. As an outcome, we offer the world's widest range of spectrometers – with each offering positioned to be the best-in-class in terms of features as well as on economic value.

Our stationary spectrometer range spans from the high-end R&D-grade Metavision 10008X , that delivers virtually every feature known in spectrometry, through the rugged, Laboratory-grade Metavision-1008i <sup>3</sup> and Metavision-1008i , to the entry-level MOSS.

The common denominator across all our offerings – products, applications and services – remains our commitment to deliver the highest level of quality, reliability and uptime, while also offering the lowest cost over the product lifecycle, through low acquisition costs backed by the highest quality of service and after-sales support to our customers – wherever they may be.



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