



CloudSpec™

Bringing clarity to the winemaking process



Where art meets science

Making great wine is a combination of these two things. CloudSpec™ is a tool that can help you perfect the science, enabling you to get the most out of your art.





Find your true colours



Colour and phenolic content of wines are strongly linked to product style and quality, yet its cloudy nature during the winemaking process makes measuring these attributes using existing technology challenging and time consuming.

CloudSpec™ has the potential to revolutionise the wine-making process by providing ready access to detailed data on these attributes. It eliminates the need for the multiple filtering and clarification steps typically required to test cloudy samples and allows them to be tested as is – in a couple of minutes.

The immediate benefit is the ability to monitor the extraction process during fermentation – which could mean, for example, your wine being able to be pressed earlier than anticipated. However, the long term potential is much greater. Being able to characterise the juice at the very early stages, such as when the grapes arrive, allows a winemaker to identify its qualities, and compare and contrast with previous vintages. Wineries will be able to use this information to work on blends and manage the attributes of the wine from the outset.



10x

quicker colour and phenolic measurements on ferments compared to existing methods. Save 10-15 minutes per sample.

CloudSpec™ delivers rapid access to rich data on the phenolics, colour and tannins of wine in its cloudy stages – data that have not been available previously.

These data can be used to help you manage the quality of your wine and adjust the nuances in tone, boldness, colour and mouthfeel over time to achieve great results in quality and drive your vintages in the direction you want.

Use the science of the CloudSpec to perfect your art and create the colour and phenolic style you want, every year.

How it works



Traditional spectrometers can only measure liquid that is absolutely clear: wine in its fermentation stages is most definitely not.

Cloudy liquid causes a scattering of the light, and therefore inaccurate data and measurements. CloudSpec™ overcomes this challenge through the use of its unique 'integrating sphere' technology, which absorbs the light rather than scattering it.

Problem solved – now you can have easy and rapid access to a wide range of information throughout the winemaking process.

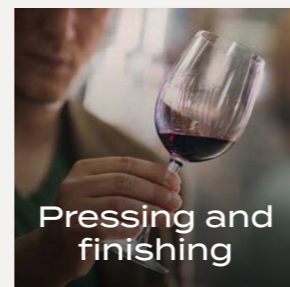


Testing at every stage



Grape Harvest

Use the CloudSpec™ to perform rapid colour and phenolic analyses of juice and ferments, with or without skins. Get the right information for your ferment management when you need it.



Pressing and finishing

Measuring colour and phenolics of grapes is time consuming and difficult. CloudSpec™ simplifies the process, so you can make better picking decisions and characterise your grapes early.



Fermentation

Follow colour and phenolics all the way from press to bottling and shipping. Be confident that what you are measuring is what is present and not removed because of filtering.

Technical specifications

CloudSpec™ is a completely standalone unit no bigger than your desktop printer – it doesn't even require an Internet connection. Set it up and you've got everything you need to get detailed information on the attributes of your wine.

Parameter	CloudSpec-UV
Instrument Type	Single-beam
Dectector Type	2048 Pixel CCD
Light Sources	Pulsed Xenon
Wavelength Range	250nm-800nm
Measurement Modes	Absorption and Transmission
Cuvette Types	Suprasil Quartz (1mm, 10mm)
Absorbance Range	0.005 A – 1A (10mm) 0.05 A – 10A (1mm)
Turbidity Range	4000 NTU
Resolution	3nm
Measurement Time (approx.)*	Total Phenolics: 10 seconds Colour: 4-5 seconds
Footprint	45cm (W), 30cm (D), 15cm (H)

*Not including sample preparation time (i.e. dilution steps)



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Curious about what we can do for you?

Contact us for an appointment or more information about CloudSpec™.

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