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Improving the Future of Smart Agriculture with Spectroscopy

Climate change and population expansion have a direct impact on agriculture. An increasing number of people need to be fed, but changing weather patterns can cause complete crops to fail. Inevitably, farms must produce more with less and frequently under increasingly difficult conditions. Growing seasons are shorter, there are fewer resources such as clean water, and even the soil can become depleted. Therefore, more and more players in the agricultural market turn to technology to help them work more efficiently and smarter, like spectroscopy. In the last couple of years, we have seen an increase in applying this enabling technology in smart agriculture. In research and agricultural equipment manufacturing, spectroscopy plays a key role. Because of the endless possibilities spectroscopy has to offer, it is applied in numerous applications that improve the future of agriculture. In this white paper, we go over a few applications in which spectroscopy enhances the outcome.

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