

# PRODUCT LIST




2021





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## 1. HYPERSPECTRAL IMAGING CAMERAS





### 1.1 UV ULTRAVIOLET

| Product image                                                                      | Product name                                                                                                | Spectral range         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------|
|   | <p><b>BlueEye</b><br/>passive cooling</p>                                                                   | <p>UV 220 - 380 nm</p> |
|   | <p><b>BlueEye TEC</b><br/>1xTEC -25°C, reduced noise output for long exposure times</p>                     | <p>UV 220 - 380 nm</p> |
|  | <p><b>BlueEye Scientific</b><br/>4xTEC -100°C, drastically reduced noise output for long exposure times</p> | <p>UV 220 - 380 nm</p> |


## 1.2 VIS / NIR    VISIBLE / NEAR INFRARED

| Product image                                                                     | Product name                                                                                           | Spectral range           |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|
|  | <p><b>GreenEye</b><br/>detailed colour information,<br/>compact, lightweight</p>                       | <p>VIS 400 - 1000 nm</p> |
|  | <p><b>OrangeEye</b><br/>GreenEye with reduced spectral range for increased<br/>spectral resolution</p> | <p>VIS 580 - 1000 nm</p> |

### 1.3 NIR NEAR INFRARED



| Product image                                                                       | Product name                                                                                                                                      | Spectral range                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|    | <p><b>RedEye 1.7</b><br/>320 x 256px (QVGA);<br/>IP65 / IP67 classification;<br/>e.g. polymer sorting</p>                                         | <p>NIR 950 - 1700 nm</p>               |
|    | <p><b>RedEye 1.7</b><br/>High spatial resolution<br/>640 x 512px (VGA);<br/>IP65 / IP67 classification</p>                                        | <p>NIR 950 - 1700 nm</p>               |
|    | <p><b>RedEye 1.7 &amp; ColEx<br/>Color Extension</b><br/>Additional RGB information in the same<br/>beam path;<br/>IP65 / IP67 classification</p> | <p>NIR 950 - 1700 nm<br/>&amp; RGB</p> |
|  | <p><b>RedEye 2.2</b><br/>Extended and shifted spectral range</p>                                                                                  | <p>NIR 1200 - 2200 nm</p>              |

## 1.4 MIR MID INFRARED

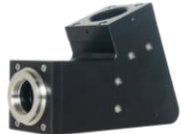



| Product image                                                                     | Product name                                                                | Spectral range            |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------|
|  | <p><b>BlackEye</b><br/>E.g. for dark materials with high NIR absorbance</p> | <p>MIR 2900 - 4200 nm</p> |

## 1.5 OEM Device





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| Product image                                                                       | Product name                                                                                                             | Spectral range           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|
|    | <p><b>OEM RedEye 1.7</b><br/>For integration purpose, RedEye 1.7 without housing and reduced HSI data pre-correction</p> | <p>NIR 950 - 1700 nm</p> |
|  | <p><b>Raman 785 Polychromator</b><br/>For integration purpose</p>                                                        | <p>785 nm</p>            |

## 2. OEM COMPONENTS

| Product image                                                                      | Product name                 | Spectral range     |
|------------------------------------------------------------------------------------|------------------------------|--------------------|
|   | <b>UV Polychromator</b>      | UV 220 - 380 nm    |
|   | <b>VIS/NIR Polychromator</b> | VIS 400 - 1000 nm  |
|   | <b>NIR Polychromator</b>     | NIR 950 - 1700 nm  |
|  | <b>NIR Polychromator</b>     | NIR 1100 - 2200 nm |

### 3. OPTICS

| Product image                                                                       | Product name                       |
|-------------------------------------------------------------------------------------|------------------------------------|
|    | <b>UV 35 mm F/2.8 1/2" C-Mount</b> |
|    | <b>RGB 5 mm</b>                    |
|                                                                                     | <b>RGB 25 mm</b>                   |
|    | <b>VIS-NIR 16 mm F/1.4 C-Mount</b> |
|                                                                                     | <b>VIS-NIR 25 mm CFF</b>           |
|                                                                                     | <b>VIS-NIR 35 mm CFF</b>           |
|                                                                                     | <b>VIS-NIR 50 mm F/2 C-Mount</b>   |
|  | <b>NIR 8 mm F/1.4 1" C-Mount</b>   |
|                                                                                     | <b>NIR 12 mm F/1.4 1" C-Mount</b>  |

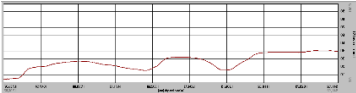
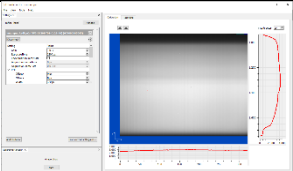
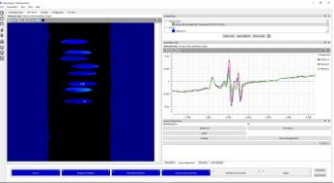
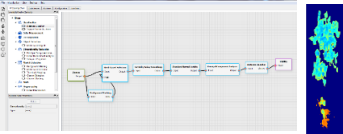
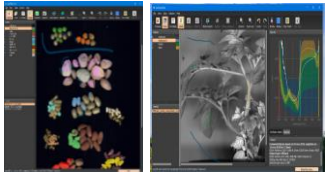
|                                                                                     |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------|
|    | NIR 16 mm F/1.4 1" C-Mount           |
|                                                                                     | NIR 25 mm F/1.4 1" C-Mount           |
|                                                                                     | NIR 35 mm F/1.4 1" C-Mount           |
|                                                                                     | NIR 50 mm F/1.4 1" C-Mount           |
|                                                                                     |                                      |
|    | MIR 13 mm Asio F/2.3 Bayonet Mount   |
|                                                                                     |                                      |
|    | Spacer ring 5 mm                     |
|    | Spacer ring 10 mm                    |
|  | Lens protection cover (RedEye only)  |
|  | White reference (Spectralon 50x20cm) |





## 4. LIGHTING

| Product image                                                                       | Product name                                        |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|
|    | Halogen light bar 0.5 m                             |
|                                                                                     | Halogen light bar 1 m                               |
|                                                                                     | Halogen light bar 1.5 m                             |
|                                                                                     | Halogen light bar 2 m                               |
|   | RGB/LED lighting (flash sequence 1)                 |
|  | RGB/LED lighting (flash sequence 2)                 |
|  | MIR light bar 1 m<br>different dimensions available |

## 5. SOFTWARE




| Product image                                                                       | Product name                                                                                                                                            |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>SiCap (GreenEye &amp; RedEye 2.2)</b><br/>basic data acquisition</p>                                                                              |
|    | <p><b>fluxRecorder (RedEye 1.7 &amp; BlueEye)</b><br/>advanced data acquisition &amp; imaging</p>                                                       |
|    | <p><b>fluxTrainer</b><br/>manual chemometric modelling<br/>multiple professional modelling tools<br/>single-site license or dongle</p>                  |
|   | <p><b>fluxEngine</b><br/>SDK – library + API<br/>C, C++ and Python<br/>different versions available</p>                                                 |
|  | <p><b>Per Class Mira</b><br/>automatic chemometric modelling</p> <p><b>Per Class Runtime</b><br/>execution of chemometric models and PLC connection</p> |

## 6. COMPUTER HARDWARE




| Product image                                                                     | Product name                                                                                                                                                         |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Laptop setup</b></p> <p>High performance laptop, suited for data processing and chemometric modelling software<br/>option: pre-installed analytic software</p> |
|  | <p><b>Industrial PC</b></p> <p>High performance PC, suited for data processing and chemometric modelling software<br/>option: pre-installed analytic software</p>    |

## 7. ACCESSORIES


### 7.1 Motorized sample stages

| Product image                                                                       | Product name                                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Speccer Basic</b></p> <hr/> <p>Reduced package price with RedEye</p>                                        |
|   | <p><b>Speccer Professional</b></p> <hr/> <p>Reduced package price with RedEye</p>                                 |
|  | <p><b>GreenEye outdoor set</b><br/>(no power supply inclusive; recommended power generator 230V, minimum 2kW)</p> |

## 7.2 Travel cases

| Product image                                                                      | Product name                                                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|   | <p><b>BlueEye travel cases</b><br/>(Basic / TEC / Scientific)</p> |
|   | <p><b>RedEye travel case</b></p>                                  |
|  | <p><b>BlackEye travel case</b></p>                                |

### 7.3 Cables

| Product image                                                                     | Product name                                                                                                                         |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Power cables, open ended</p> <p>Power cables, with power supply</p> <p>Data/ethernet cables</p> <p>I/O cables</p> <p>Y-cables</p> |

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