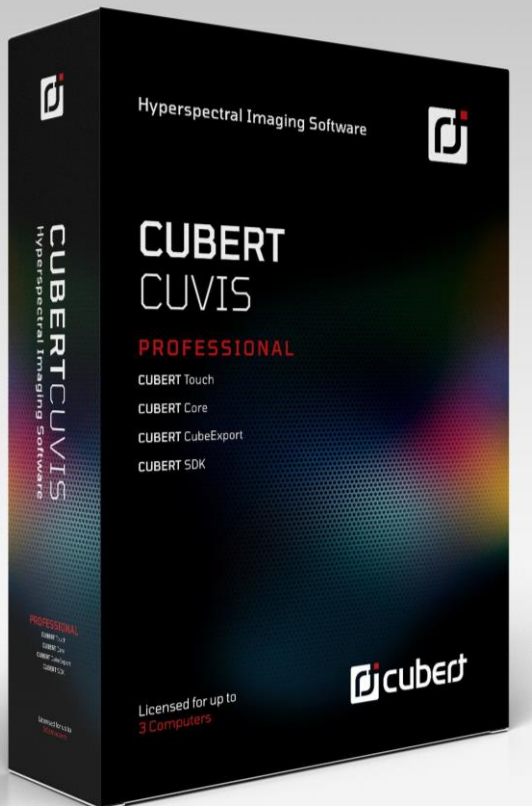
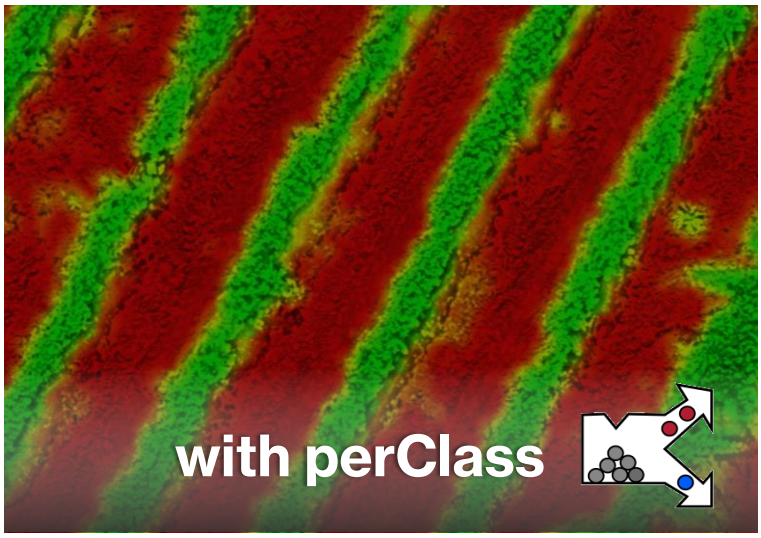
Hyperspectral Imaging Software





CUVIS

Your software for hyperspectral image recording, processing and exporting

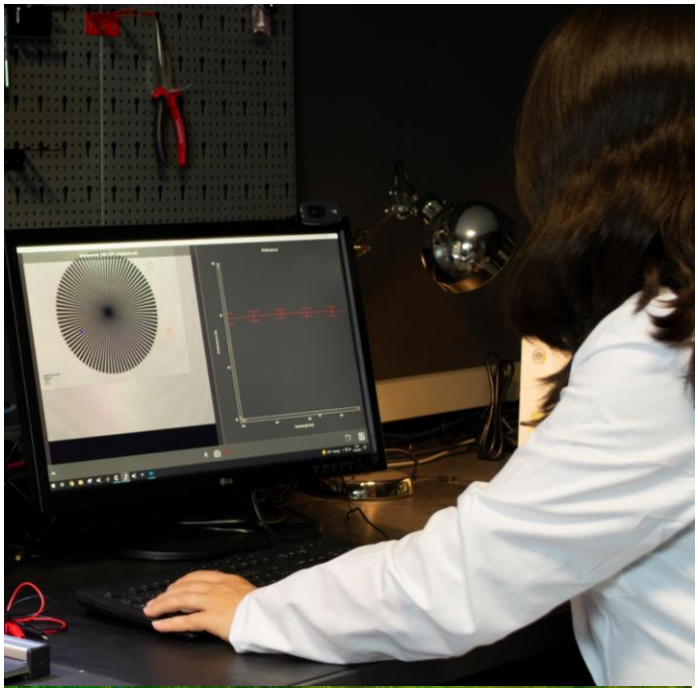
Cubert's powerful CUVIS software is now available in a stand-alone version. First developed to (operate and) record data from our award-winning cameras, CUVIS has evolved into a full hyperspectral imaging suite. The intuitive software interface allows users to quickly begin their data analysis with customizable personal algorithms or classifications and the comprehensive user interface enables the creation of custom views. The all-inclusive SDK allows for easy integration of any hyperspectral camera, locally or remotely.

Advantages

- Intuitive Software Interface
- Dedicated recording server / remote operation
- Most Versatile SDK (C/C++/Matlab)
- Direct and batch data processing
- Custom data classification (includes perClass)

```
CUBERT_CHECK(cubert_measurement_get_metadata(mesu, &mesu_data));
printf(
    "data 1 %s %.2f ms mode=%d flags=%d\n",
    mesu_data.name,
    mesu_data.integration_time,
    mesu_data.processing_mode,
    mesu_data.measurement_flags);



printf("Load calibration and processing context...");
CUBERT_CHECK(cubert_calib_create_from_path("sample_data/set1/factory"
CUBERT_CHECK(cubert_proc_cont_create_from_calib(calib, &procCont));
printf(" done. \n");

printf("Set references ...");
CUBERT_CHECK(cubert_measurement_load(
    "sample_data/set1/Calibration/distanceCalib__outside_000_002_snap
    &distance));
printf(" done. \n");

CUBERT_PROC_ARGS args;
args.processing_mode = Cube_Raw;

CUBERT_CHECK(cubert_proc_cont_set_reference(procCont, dark, Reference
CUBERT_CHECK(cubert_proc_cont_set_reference(procCont, white, Referenc
CUBERT_CHECK(cubert_proc_cont_set_reference(procCont, distance, Refer

CUBERT_CHECK(cubert_proc_cont_is_capable(procCont, mesu, args, &is_ca
```

Most versatile SDK available for your own system integration



Analyze your data in real-time and have full control of your measurements

Graphical User Interface (Touch)	
Camera settings	Integration time frame rate averaging
Recording	… hardware-triggering mode GPS modul (optional)
References	Dark/White references
Live processing	Radiometric correction spectral radiance custom algorithms
Live spectral plots	area spectrum w. std dev. multiple selection
Live classification	perClass MIRA pipeline perClass Toolbox pipeline
Export	
Formats	TIFF (Single/Multichannel, EXIF,GPS-IFD, XMP), ENVI
3rd Party Software (Examples)	perClass MIRA, Agisoft Metashape, Matalb
SDK	
DLL SDK	C, C++, Matlab
Remote SDK (TCP/IP)	C++, Matlab
Requirements	
Operating System	Windows 10 64 Bit Ubuntu 20.04 LTS* (* GUI not available)
Hardware	Intel I5 or better 8 GB RAM

Get the best out of your hyperspectral data

Do you have a challenging dataset to classify or quantify? Don’t spend months on implementation before realizing a different approach could have produced better results.

With CUVIS, your own classification will be running in minutes. Record your data and label it with our full perClass MIRA integration. Auto-extract the classifier and instantaneously apply it to the live camera output. Your data will be ready for online analysis and processing on your dedicated machine or in a remote operated environment e.g., on your UAS.

CUVIS gives full control over algorithms, operations points and cost matrices and is easily deployed on your own machine with our all-inclusive SDK

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