

Excel with FILM★STAR

FilmStar programs are now [Excel-compatible](#) even when Excel is not installed. Click *Spectra...Save As* and select XLS or XLSX. *It's that simple*. No messing about with CSV import/export or error-prone copy and paste.

Unlike *Tower of Babel* formats DSP/ASC/CSV/USD/SPC/SP/SPA/PRN/DX, Excel is a *universal format* for transferring spectral data. You use Excel; so do 750M others including coating buyers who increasingly demand useable data, not just printed graphs and tables.

Agilent UMA and PE ARTA/TAMS attachments acquire multiple spectra. If you measure %R S+P pol at five angles, ten columns in one file is far easier to manage than ten files. Add a [Pike autosampler](#) and you could be dealing with hundreds of spectra (no problem).

MULTIPLE SPECTRA

- The [Spectra Collector](#) in DESIGN/MEASURE saves multi-sample multi-spectra data as Excel workbooks. Neither *WinUV* nor *UV Winlab* offer this. It's even in our DESIGN [Free Version](#).
- A new built-in Excel viewer verifies file operations.
- New BASIC XL commands add special capabilities for [angular dispersive](#) devices and integration with Excel-compatible programs like [MATLAB](#) and [Mathcad](#).

Effective handling of single and multiple spectra is only one reason to utilize Excel. FilmStar and Excel provide powerful and easy-to-use automation tools. FilmStar is client and server at the object level.

AUTOMATION

- FTG developed a turnkey solution for inspecting IR filter assemblies. The system, based on our PE FTIR Server, controls a stepper motor and prints labels. Each assembly is saved as an XLSX file with graphs, data and pass/fail. Labor cost reduced by 80%!
- FTG automated [scanning vs. temperature](#) for Lambda 1050 when PE realized that customer's requirements went far beyond UV Winlab's capabilities.
- Design tasks can also be automated as in [Excel Color Grids](#), wherein we show highpass angular variation and illustrate error effects in ophthalmic AR.

ADD-INS

- With its many users, there's no end of Excel add-ins and compatible applications. Google "SPC Excel" and be astonished by the number of hits.

The more you're able to do with Excel, the more you'll contribute to your organization's success. [E-mail your questions](#) or, even better, call us at +1 609-924-6222 to arrange a convenient [online demonstration](#).

W (nm)	RP +45 +90	RS +45 +90	RP -45 -90	RS -45 -90
400.0	48.01156	68.28693	48.10080	67.40234
402.0	48.44352	67.86972	48.27138	67.64357
404.0	48.34723	68.55136	48.45859	67.71307
406.0	48.47416	68.58641	48.71173	67.98173
408.0	48.74633	68.13619	48.77828	67.90657
410.0	48.91021	68.58829	48.98993	68.13950
412.0	49.05447	68.33987	49.27163	68.04305
414.0	49.24713	68.91556	49.39544	68.37307
416.0	49.32618	68.97413	49.47021	68.30711

Spectra Collector (normalized UMA data)

A	B	C	D	E	F	G	H
1	Milk						
2	Eggs						
3	Truffles						
4	Butter						
5	Fontina cheese						
6	Spinach						
7	Romaine lettuce						
8	Artichokes						
9	Basmati rice						
10	Olive Oil						

Excel preview prevents obvious File...Open errors

Wave (nm)	0°	10°	20°	30°	40°	50°	60°
2	400.00	30.55%	28.28%	24.37%	22.74%	20.80%	17.78%
3	405.00	30.77%	28.70%	24.66%	22.23%	20.98%	17.60%
4	410.00	31.56%	28.21%	26.74%	23.67%	20.89%	18.28%
5	415.00	31.72%	29.92%	26.14%	24.53%	21.20%	18.16%
6	420.00	32.62%	29.32%	26.41%	25.28%	21.43%	18.65%
7	425.00	32.82%	30.18%	28.34%	25.45%	21.84%	20.32%

Scanning vs. temperature

```

For Ang = aMin To aMax Step aDelta
    kCol = kCol + 1
    wksColors.Cells(1, kCol) = CStr(Ang) & ""
    .Angle = Ang
    .Pol = "R"
    .GetCieColor kColor, sType$
    wksColors.Range(Cells(kRow, kCol), Cells(kRow, kCol)).Interior.Color = kColor
Next Ang
    
```

Object-level Excel VBA integration for advanced users