



UNISIM 'COMPACT'

CLOSE-MATCH SOLAR SIMULATOR IN A COMPACT FORM

THE UNISIM 'COMPACT' IS AN AWARD WINNING, LOW-COST, CLOSE-MATCH SOLAR SIMULATOR THAT PROVIDES THE WORLD-LEADING SPECTRAL MATCH OF OUR AWARD WINNING UNISIM SIMULATORS IN A COMPACT, BENCH TOP UNIT COMPLETE WITH IV MEASUREMENT

THE EASY-MAINTENANCE ENCLOSURE HOUSES A TS-SPACE SYSTEMS™ 2-ZONE UNISIM SOLAR SIMULATOR WHICH COMBINES METAL HALIDE AND INCANDESCENT SOURCES VIA OUR PROPRIETARY FILTER SYSTEM TO GIVE AN AMO CLOSE-MATCH SPECTRUM.





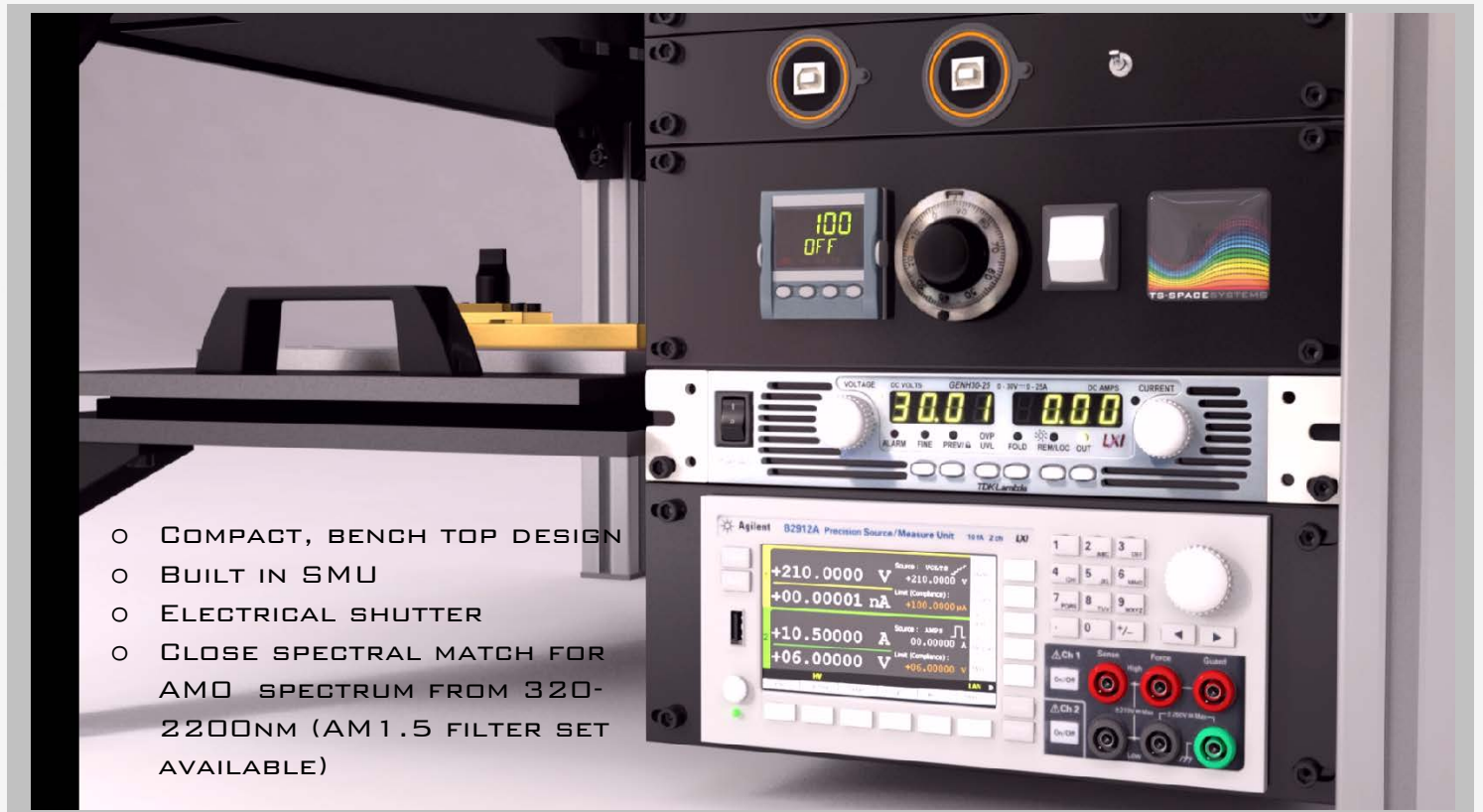
UNISIM 'COMPACT'

A MODULAR DESIGN, SCALABLE TO YOUR REQUIREMENTS

THE STANDARD SYSTEM INCLUDES AN EMBEDDED SOURCE METER WITH COMPLETE IV MEASUREMENT SYSTEM (COMPUTER, GPIB INTERFACE, IV SOFTWARE, MS EXCEL), RELATIVE IRRADIANCE INDICATOR FOR MONITORING LAMP INTENSITY AND AN ELECTRICAL SHUTTER. FULL SOURCE CODE FOR IV AND OPTIONAL LED CONTROL SOFTWARE IS PROVIDED.

MODULAR UPGRADES CAN BE ADDED TO THE STANDARD SYSTEM AT POINT OF ORDER OR AT A LATER DATE:

- SPATIAL UNIFORMITY SCANNER.
- SPECTROMETER FOR CHECKING SPECTRAL CALIBRATION.
- TEMPERATURE CONTROLLED SPECIMEN CHUCK.
- AM1.5 CLOSE-MATCH FILTER SET



- COMPACT, BENCH TOP DESIGN
- BUILT IN SMU
- ELECTRICAL SHUTTER
- CLOSE SPECTRAL MATCH FOR AMO SPECTRUM FROM 320-2200NM (AM1.5 FILTER SET AVAILABLE)





UNISIM 'COMPACT'

A COMPLETE MEASUREMENT SYSTEM WITH EASY MAINTENANCE

THE UNISIM 'COMPACT' IS DESIGNED FOR QUICK, SIMPLE MAINTENANCE. LAMP AND FILTER UNITS ARE EASILY ACCESSIBLE VIA THE QUICK-RELEASE ENCLOSURE COVER SO LAMP CHANGES TAKE JUST A FEW MINUTES AND REQUIRE NO TOOLS.

FULL 360 DEGREE ACCESS TO THE OPTICAL ENCLOSURE ALSO MAKES MAINTENANCE AND ADJUSTMENTS VERY SIMPLE. ADDITIONAL DROP-IN FILTER UNITS CAN BE LOADED IN QUICKLY WITHOUT THE NEED FOR TOOLS

FRONT PANEL OPERATION

THE POWER SUPPLY AND MEASUREMENT INSTRUMENTS ARE MOUNTED VIA STANDARD 9.5" 'HALF-RACK' UNITS WHICH CAN BE EASILY REMOVED FOR SERVICING OR UPGRADES.

USB CONNECTIONS ARE PROVIDED FOR THE BUILT IN SOURCE METER AND OPTIONAL LED BOOST ZONES. SOURCE CODE FOR THE IV MEASUREMENT SOFTWARE AND LED CONTROL SOFTWARE IS ALSO INCLUDED FOR IN-HOUSE TEST INTEGRATION.



ALSO MOUNTED ON THE FRONT PANEL IS A RELATIVE INTENSITY INDICATOR WHICH PROVIDES A MONITOR FOR THE SIMULATOR BEAM INTENSITY.

THE TEST PLANE CAN ALSO BE ISOLATED FROM THE SIMULATOR BEAM USING THE ELECTRICAL SHUTTER.



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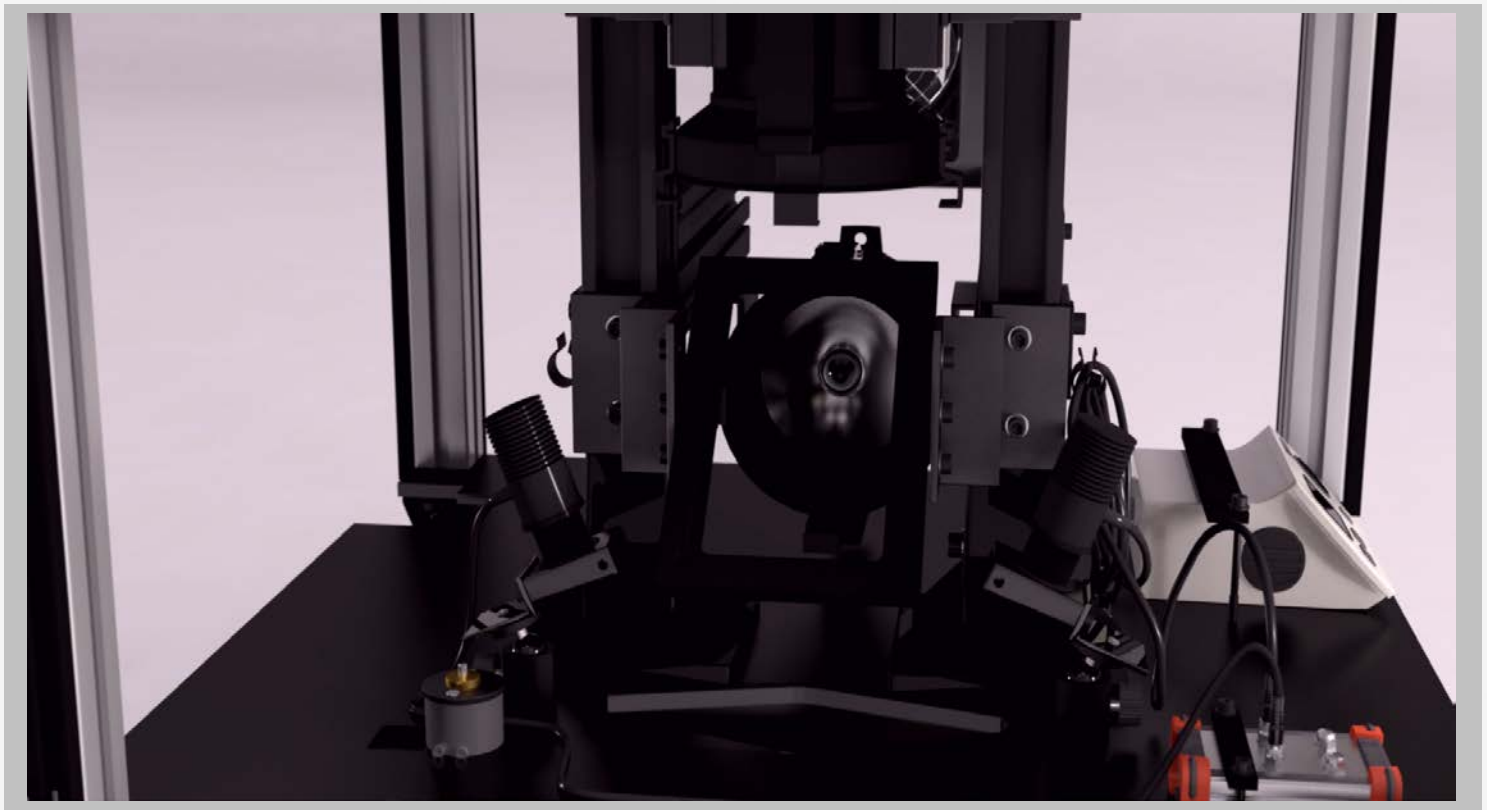
OPTIONAL LED BOOST ZONES

AS WITH ALL OF THE UNISIM SOLAR SIMULATORS FROM TS-SPACE SYSTEMS™ THE UNISIM 'COMPACT' CAN BE FITTED WITH LED BOOST ZONES IN A VARIETY OF WAVELENGTHS. THESE ARE COMPUTER CONTROLLED AND CONNECT TO THE INCLUDED COMPUTER VIA THE FRONT PANEL USB PORTS.

THE INCLUDED LED CONTROL SOFTWARE ALLOWS FOR THE INDEPENDENT CONTROL OF THE BOOST LEDs AS WELL AS

THE STORING OF LED GROUPINGS AND INTENSITY SETTINGS. SYSTEM CONFIGURATIONS FOR SPECIFIC TEST REQUIREMENTS CAN THEN BE RECALLED AND IMMEDIATELY IMPLEMENTED, MEANING SUB CELLS CAN BE BOOSTED OR LIMITED IN A SIMPLE AND REPRODUCIBLE MANNER WITHOUT THE NEED FOR ADJUSTMENTS TO THE MAIN SIMULATOR LAMPS.

PLEASE CONTACT US OR READ OUR TECHNICAL NOTE ON BOOST LEDs [ON OUR WEBSITE](#).





UNISIM 'COMPACT'

SUITABLE FOR A RANGE OF APPLICATIONS

MANY OF OUR CUSTOMERS HAVE FOUND THE APPROXIMATION OF THE SUNLIGHT SPECTRUM IN STANDARD 'CLASS A' SOLAR SIMULATORS TO BE UNSATISFACTORY WHEN ACCURATE MEASUREMENTS ARE REQUIRED.

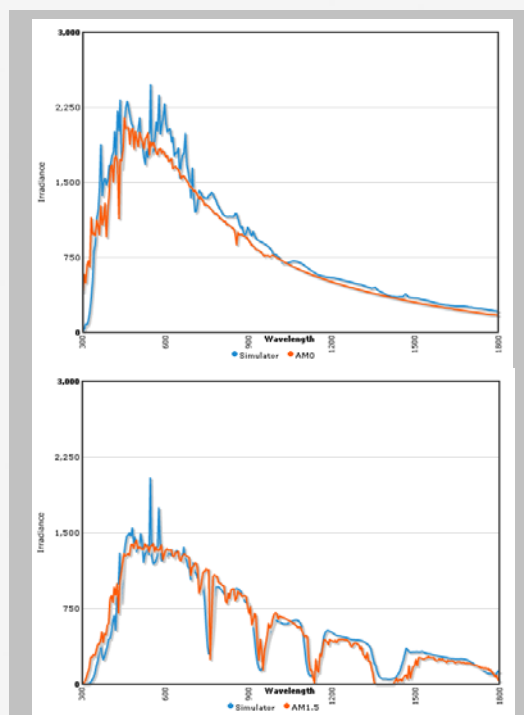
THE TS-SPACE SYSTEMS™ UNISIM 'COMPACT' CAN BE USED FOR MANY APPLICATIONS WHERE A CLOSE SPECTRAL MATCH TO AM0 OR AM1.5 IS DESIRABLE.

FOR PHOTO-BIOLOGICAL TESTS THE UNISIM 'COMPACT' CAN BE CONFIGURED WITHOUT THE IV SYSTEM ON REQUEST. SIMILARLY, IF A CLOSE-MATCH IS NOT REQUIRED, THE 'COMPACT' CAN BE BUILT AS A BASIC CLASS 'A' SPECTRUM AT POINT OF ORDER.

PLEASE CONTACT US FOR FURTHER INFORMATION.

UNISIM COMPACT SPECS

	UNISIM 'COMPACT' - STANDARD SPECIFICATION
ILLUMINATION AREA	NOMINAL 60MM DIAMETER
SPECTRAL MATCH	A/A/A (320-2200NM) (AM0 CLOSE-MATCH)
TEMPORAL STABILITY	A/A/A (+/- 0.15%)
SPATIAL UNIFORMITY	A/A/A (+/-2%)
ANGLE OF INCIDENCE	2-3° (HALF ANGLE)
IV MEASUREMENT SYSTEM	INCLUDED (AGILENT B2900A SMU, COMPUTER, IV SOFTWARE WITH SOURCE CODE AND MS EXCEL)
DIMENSIONS (WDH)	720x720x800MM



* ADDITIONAL DROP-IN FILTER SETS ARE AVAILABLE FOR AM1.5 CLOSE-MATCH. FINAL SPECTRUM MAY VARY.

