

TESTING
INSTRUMENTS
CERTIFICATIONS

 **EasyMeasures**
TESTING, INSTRUMENTS & CERTIFICATIONS

EL1 SERIES

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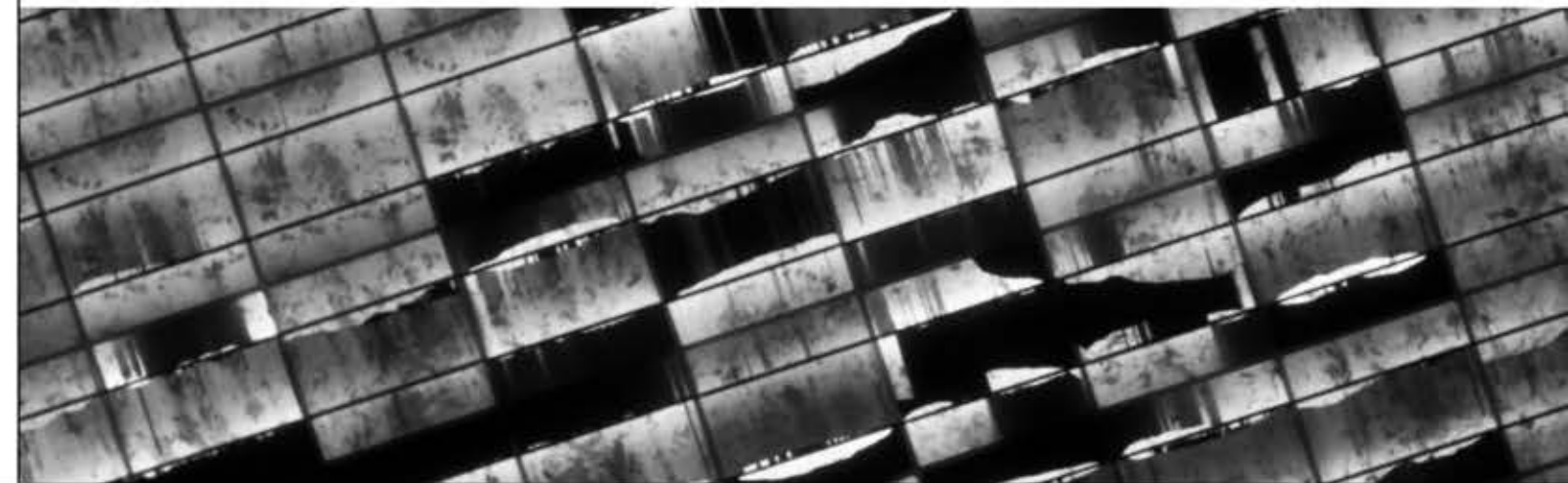
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**THE ULTIMATE
ELECTROLUMINESCENCE
OUTDOOR SYSTEM**



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ON-SITE INSPECTION OF PV-MODULES

"EASY MEASURES IS LEADER ON TECHNICAL INSPECTION AND DIAGNOSTIC SERVICES ON PV POWER PLANTS COOPERATING WITH SEVERAL RENOWNED CERTIFICATION AUTHORITIES, ACCREDITED LABORATORIES, PV MODULES MANUFACTURER, EPCS AND CONSULTING AGENCIES WORLDWIDE.

OUR WIDE EXPERIENCE IN THE FIELD ALLOWED US TO DESIGN AND DEVELOP SOME SPECIFIC AND HIGH TECHNOLOGICALLY ADVANCED INSTRUMENTS FOR THE EXECUTION OF DETAILED AND ACCURATE INSPECTIONS ON THE PV MODULES INSTALLED ON A POWER PLANT.

OUR EL CAMERAS ARE NOWADAYS THE MOST COMPACT, FAST AND ACCURATE AVAILABLE ON THE MARKET."

MAIN FEATURES OF EL1.SERIES:

- Suitable for all the most common technologies of PV-modules
- No need to remove the PV-modules from the string/array for testing
- Identification of all kind of damages and defects of the cells/modules including P.I.D.
- Outdoor measurements with wide temp. range -5°C/+55°C
- Measures are performed at night so no additional production losses of the PV power plant occur
- No need of dark boxes or covers on the modules
- Direct image view on the camera without requirement of any laptop or tablet
- Fast acquisition time and EL video option available on specific modules
- Camera lightweight and battery supplied

Possibly to measure single cells, single modules or full arrays with one single acquisition

ELECTROLUMINESCENCE CAMERAS

- EL-001 Ultra high resolution portable EL camera with EL video option
- EL010 High resolution portable EL camera with video EL capabilities
- EL100 High resolution portable EL camera



MAIN TECHNICAL DETAILS

Model	EL-001	EL-010	EL-100
Maximum image resolution	35Mp	23Mp	18Mp
Minimum acquisition time	40ms	80ms	1.000ms
EL-video	Yes	Yes	No
HD EL-video	Yes	Yes (1)	No
Mesure of full arrays	Yes	Yes	Yes
Camera weight (std. configuration)	750g	850g	1.100g
Image output	JPG, MP4 or raw data		

OPTICAL LENSES

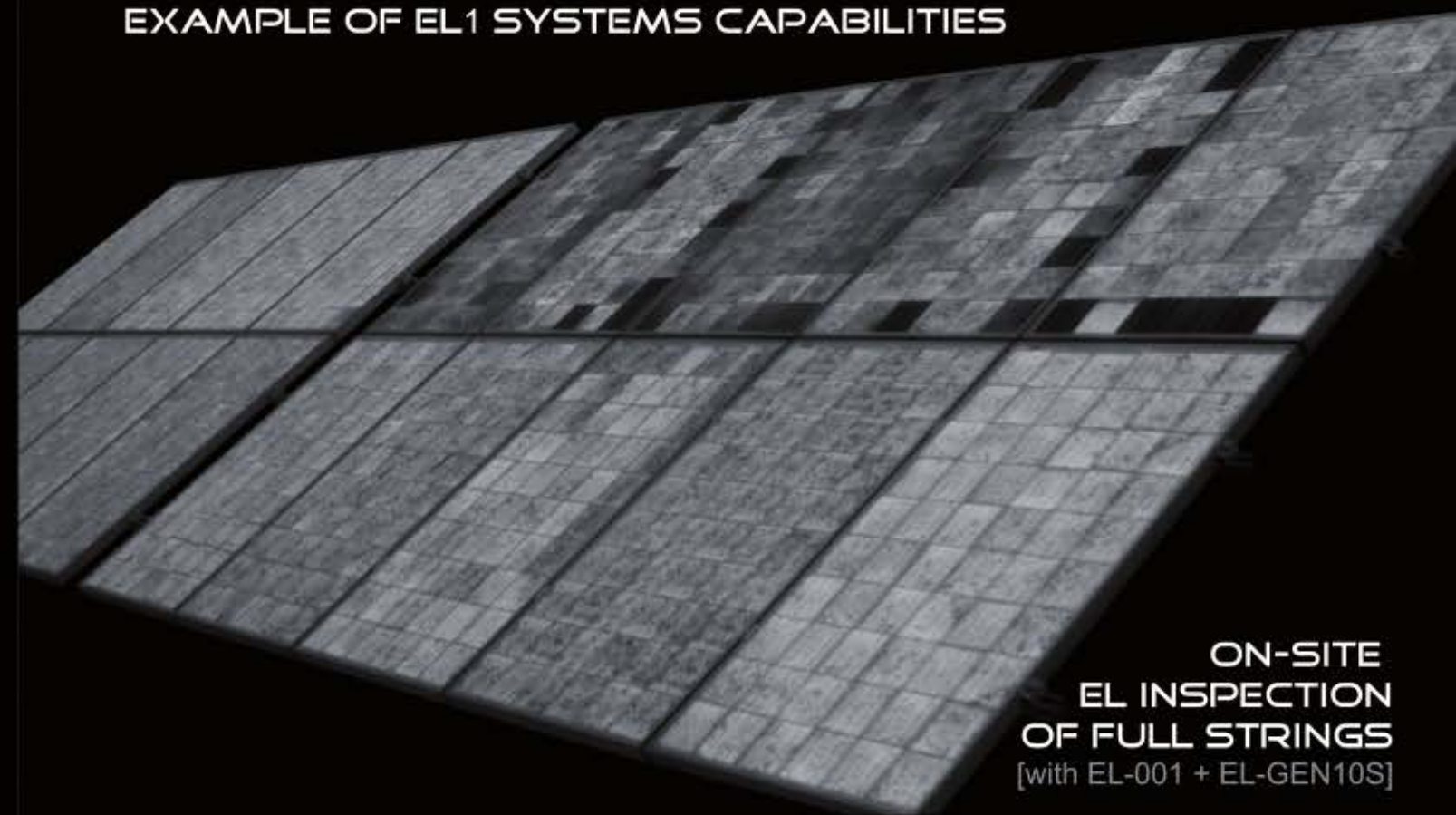
LS-001	Standard lense for EL-001
LS-010	Standard lense for EL-010
LS-100	Standard lense for EL-100
LW-001	Wide angle lense for EL-001
LW-010	Wide angle lense for EL-010
LT-100	Narrow field lense for EL-100

GENERATORS

- EL-GEN01M Generator for precision EL measurement on single PV module
- EL-GEN05S Generator for EL measurements on PV power plants (single module or full array)
- EL-GEN10S Generator for EL measurements on PV power plants - extended range

(1) Depends on the selected generator

EXAMPLE OF EL1 SYSTEMS CAPABILITIES



**ON-SITE
EL INSPECTION
OF FULL STRINGS**
[with EL-001 + EL-GEN10S]