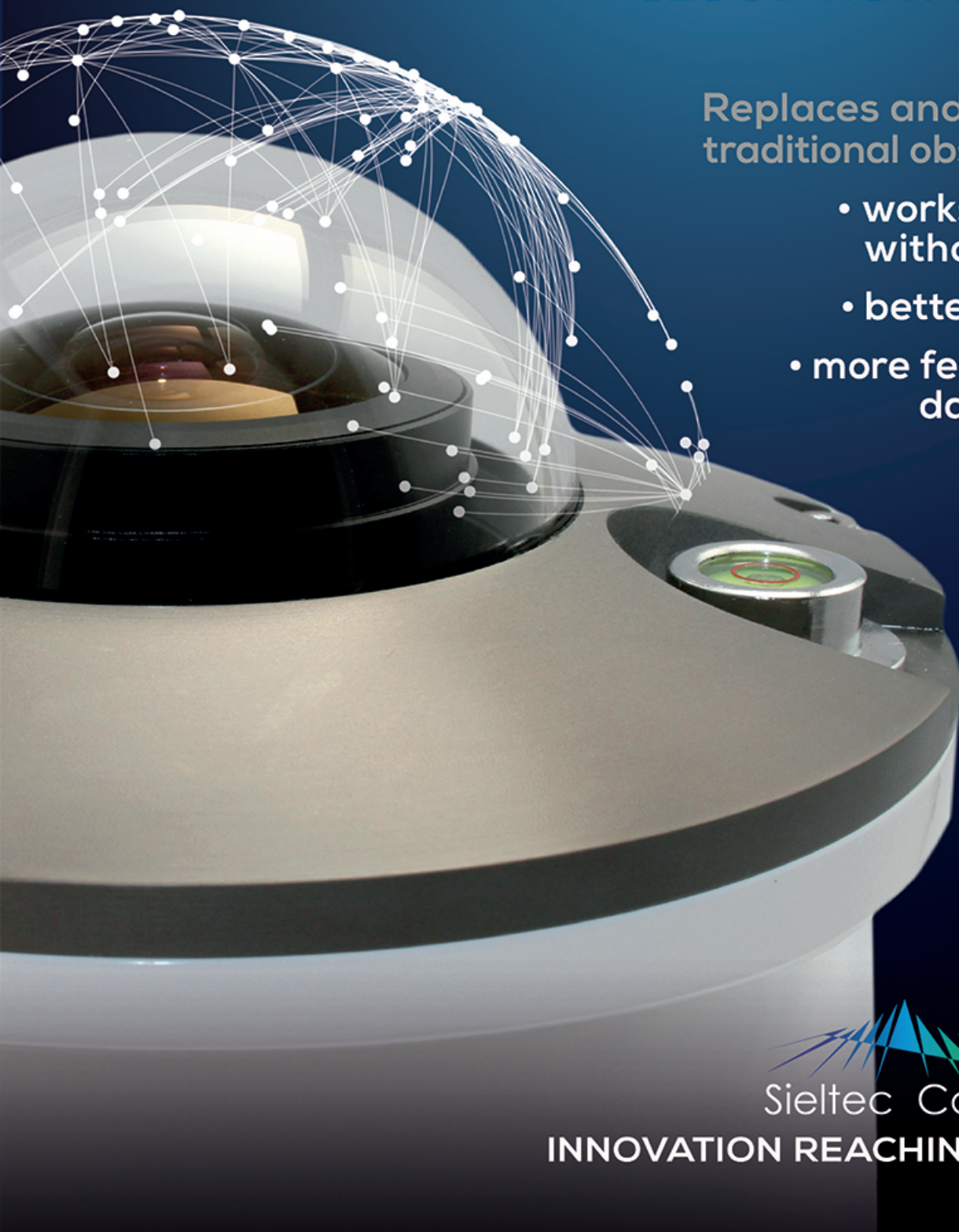


SONA

AUTOMATIC CLOUD DETECTION SYSTEM + CLOUD NOWCASTING

Replaces and enhances
traditional observations:

- works 365 days
without fatigue
- better accuracy
- more features and
data outputs




Sieltec Canarias S.L.

INNOVATION REACHING THE SKY

SONA allows capturing and processing all-sky pictures, covering 180° field of view. Its robust design with compact dimensions, and a complete new embedded system for different applications, provides high reliability in harsh environmental conditions.

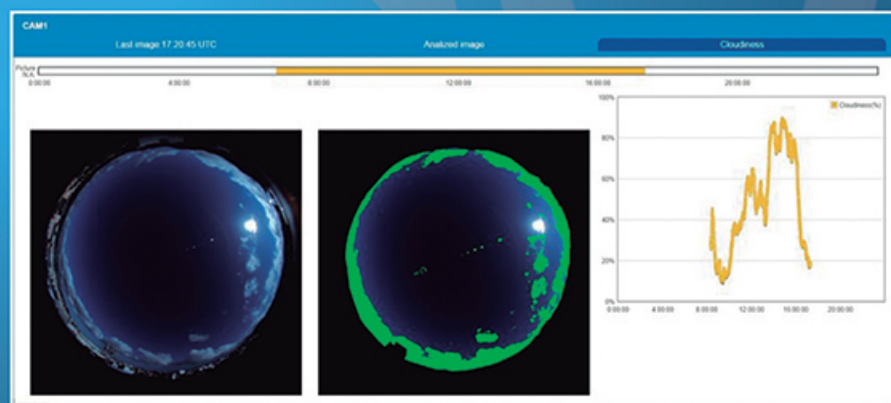
Our range of SONA instruments is being used worldwide to provide accurate data of cloud coverage in multiple scientific, meteorological and/or industrial areas, from remote rural areas, high mountain sites to crowded cities.

The system captures HDR images of the entire sky. After the capture, the images are processed as well as the percentage of clouds coverage and other additional data.

WEB interface allows connection to the system from all over your network or from outside (VPN function included).

Easy integration: folder based database, .csv/.json file format, link to last picture, etc... for immediate connection to your dashboard or external web to data sharing.





SONA's Graphical User Interface

SPECIFICATIONS

	SONA 202U	SONA 502U (2Q 2018)
Image sensor	2.3MP high speed CMOS global shutter	5MP high speed CMOS global shutter
Use	Day and night	Day and night
Field of view (degress)	> 180 (very low distortion fish eye lens)	
Capture rate	< 5 sec (15 sec standard capture)	
Capture image format	RAW	
Output image format	PNG, JPG, GIF	
Data output	<ul style="list-style-type: none"> • Image capture • Cloud fraction (%) (*) • Sun is blocked (1/0) (*) • High AOD presence (1/0) (*) • Sensor temperature • Internal humidity alarm 	
Software	<ul style="list-style-type: none"> • Capture • Processing • Data graphs • Database • Export data • FTP backup • VPN access • Link to last picture • with/without date & time 	
Communications	Camera to control computer: Gigabit PoE LAN PC to local network: Gigabit LAN	
Power supply	Input: 90 – 240V Output: 24V, 60W PoE passive (camera) / 19V, 40W (computer)	
Protection level	>IP67 (camera)	
Dome & case	75mm diameter borosilicate dome, 3mm thickness.	
	Case: anodized and powder coated paint aluminium.	
Operating temperature	-40 to 55 (with internal extra heating)	
Blower	Optional	
Dimensions	170 mm height , 180 mm diameter	
Weight	3 kgs (camera), 7.5kgs (total system packed)	

(*) Only for daytime. At night only "capture" feature is available.



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