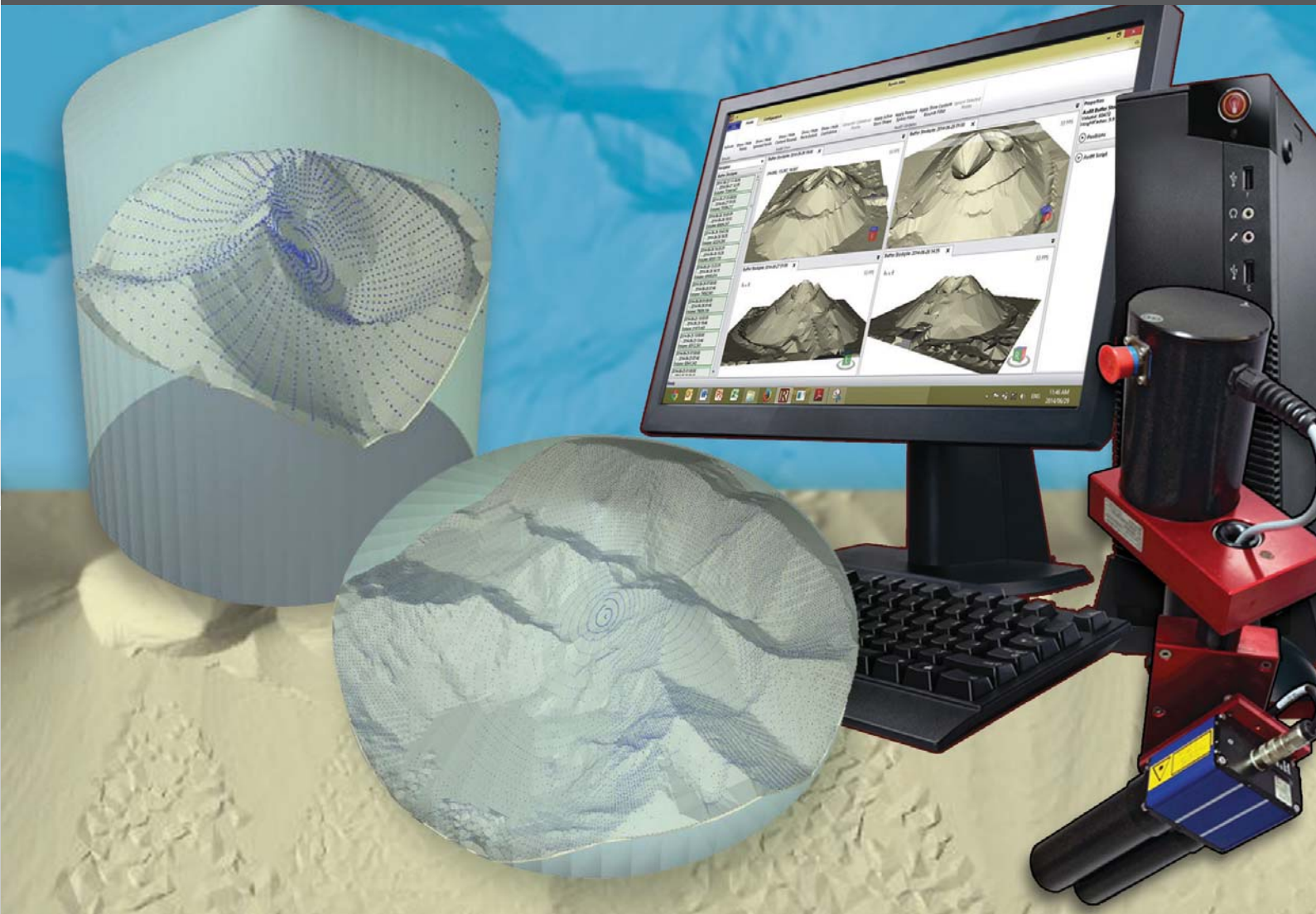


ARTEMIS® BULK INVENTORY MANAGEMENT

Single and multiple bulk storage facility management tools



Effective inventory management for bulk commodities stored in large silo's, flat warehouses and on open air stock piles

Artemis®
Laser Scanning System

Ronin®

Tel: +27 (0) 11 608 3666
office@roningms.com
www.roningms.com

YOUR INVENTORY MANAGEMENT SOLUTION FOR SILO BINS, WAREHOUSES & OPEN AIR STOCKPILES

The ARTEMIS® multi-axis laser scanner is capable of surface mapping commodities stored in silo bins, warehouses and on open air stockpiles. These 3D surface maps are processed by our AIMS® software which publishes Confidence factors and validated scans into the ART® software application from where the operator can manage and report accordingly.

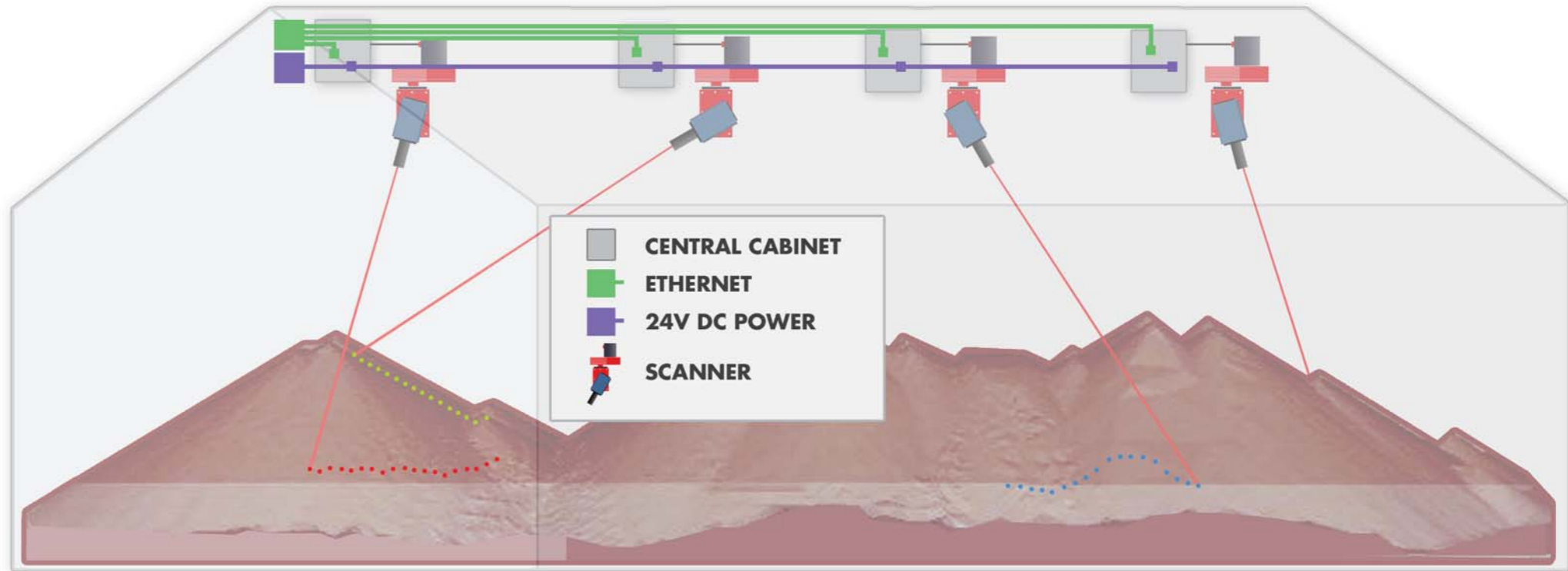
Artemis®

Laser Scanning System

THE ARTEMIS® APPLICATION: ALL STORAGE VESSELS & OPEN AIR STOCK PILES



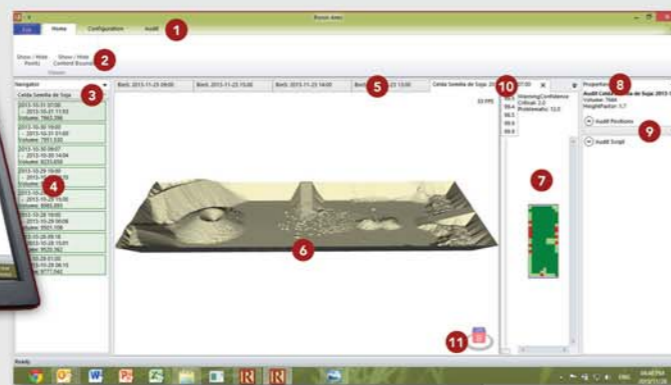
The ARTEMIS® inventory management solution incorporates rugged industrial laser scanners that are mounted inside bins, bunkers & warehouses and on stackers for open air storage. These scanners are capable of sourcing highly accurate 3D surface maps.



ABOVE & LEFT: The ARTEMIS® 40 series scanner applied inside STORAGE BINS, BUNKERS & FLAT WAREHOUSES.



The ARTEMIS system uses an ethernet communication platform between devices and the silo operators office. The connection can be wireless or hard wired.



KEY

AIMS 3D VIEW: 1: MENU BAR 2: VIEW OPTIONS 3: DROP DOWN LIST 4: SCAN DATA
5: MULTIPLE SCANS 6: 3D REPRESENTATION 7: COLOUR CODED CONFIDENCE FACTOR
8: CURRENT SCAN PROPERTIES 9: POSITIONING & CONFIGURATIONS
10: CONFIDENCE FACTOR ASSESSMENT 11) ORIENTATION



ABOVE LEFT: AIMS 3D VIEW OF COMMODITY WITH CONFIDENCE FACTORS. ABOVE RIGHT: ART® FRONT-END REPORTING SCREEN SHOWING VOLUMES

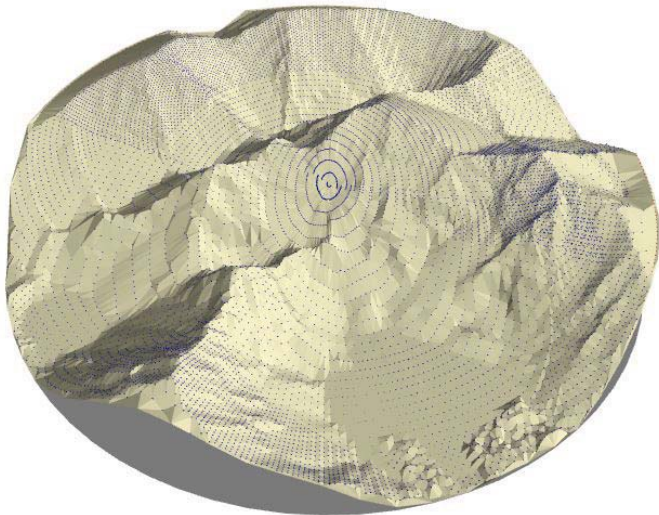


ABOVE: The ARTEMIS® 300 series scanner applied to OPEN AIR STOCK PILES.

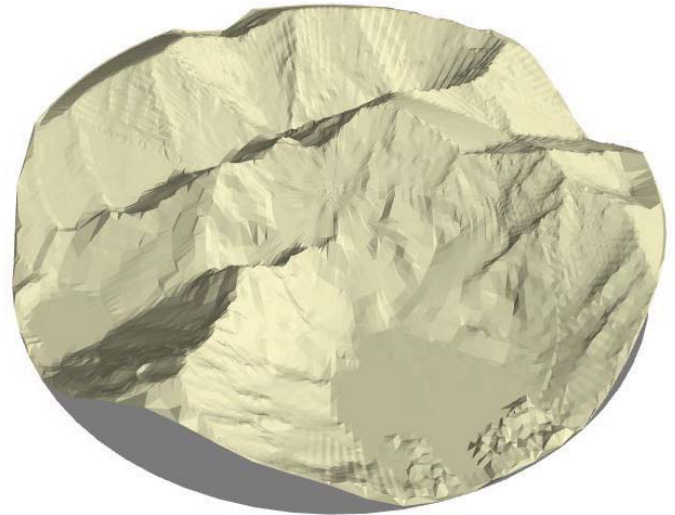


THE ARTEMIS® SOLUTION ALLOWS YOU TO BALANCE BULK TO BOOK VALUE ON A DAILY BASIS. MANAGE ON SITE OR MULTIPLE SITES FROM THE HEAD OFFICE. PUBLISH REPORTS & MONITOR TRENDS.

ARTEMIS® 300 STOCK PILE SCAN



SCAN CYCLE

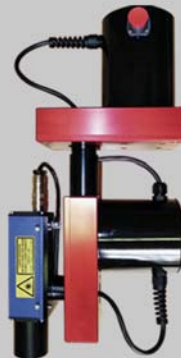


3D SURFACE MAP

ARTEMIS® APPLICATION

ARTEMIS 40 SERIES

- Ideal for soft commodities (organic)
- For use on bulk with low light absorbance
- Range up to 50 metres
- Applicable to silo's and flat warehouses



ARTEMIS 300 SERIES

- Ideal for hard commodities (mineral)
- For use on bulk with high light absorbance (deep black & long distance)
- Range up to 300 metres
- Applicable to silo's, flat warehouses and open air stock piles



ARTEMIS® COMPONENTS



**ARTEMIS 300®
SCANNER**



**ARTEMIS 40®
SCANNER**



ART® APPLICATION



ART® MANUALS



ART® CONTROL BOX

RONIN® BULK INVENTORY MANAGEMENT SOLUTIONS FOR SILO BINS



Software Only Solution
ARTLite® Proprietary Application



Silo Bins/Single Fill & Draw
ART® Single Point Level Measurement



**Large Silo Bins/High Turn Over/
Multiple Draw Points**
ART+® Single Axis Profile Tracing