

CubiScan[®] 210-DS

Applications/Benefits

Warehousing and Distribution

- Measures cuboidal and non-cuboidal freight in motion, in any orientation
- Eliminates manual data entry and protects data integrity
- Provides data for storage location selection and shipment planning
- Provides data for use in facility layout, pallet stacking, and load planning optimization software packages.

Freight Manifesting / Auditing Applications

- Dimensions freight instantly and accurately without damaging the package or its contents
- May be configured for in-line or stand-alone operation
- Facilitates load, weight and balance planning
- Particularly well suited for the more demanding distribution and sortation applications where precision and cost reduction are the primary objectives.

More Highlights

- Can interface directly to PC or mainframe host devices
- Visual readout instantly displays dimensions and other statistics
- Qbit™ PC interface software optional
- Output in metric and/or imperial units
- Uses sensing technology that is safe for both the operator and the package contents





CubiScan 210-DS

Specifications

Performance Specifications

Measurement Range	
Length	Min 2.4 in (61 mm) Max 60 in (1524)
Width	Min 2.4 in (50 mm) Max 48 in (1220)
Height	Min 2.4 in (50 mm) Max 36 in (914 mm)
Measurement Increment	0.2x0.2x0.2 in (5x5x5 mm)
Object Interval	Greater than or equal to 2 in (50 mm)
Min Conveyor Speed	10 fpm (0.05 mps)
Max Conveyor Speed	600 fpm (3.05 mps)
Object Remission	15 - 200%
Detectable Object shape	Almost any
Useful Field of View	Maximum 70 degrees

Other

Sensor Type	SICK VMS 520
Optical Indicators	6 LED's per sensor
Host Interfaces	RS-232 or RS-422, Ethernet, Profibus, Devicenet. Output format is user-definable
Laser Diode	Visible light (Wavelength 650 nm)
Laser Power	Max. 10mW
Laser Class of the Device	Class 2 (complies w 21 CFR 1040.10 w/e of the deviations per Laser Notice #50, 07/26/2001)
Enclosure Rating/Protection Class	IP 20 (according to DIN 40050) with plug cover IP 65
Housing	Aluminium Die-cast
Output data	Maximum Dimensions (L,W,H), box volume and real volume
EMS Test	In compliance with EN 61000-6-2:2001, EN 61000-6-4:2001
Operating Voltage/ Power	24V DC \pm 15% / max 50W
Vibration Shock Test	In compliance with EN 60068-2-6, -27, -29, -64
Operation Temperature	23°F > 104°F (-5°C > 40°C)
Storage Temperature	-4°F > 158°F (-20°C > 70°C)



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The **CubiScan® 210-DS** is a new generation “above-the-belt” in-motion dimensioning system which can quickly be installed above existing flat (powered) conveyor belt, thus eliminating the need to breach a conveyor to “drop in” a cubing system. . The 210-DS uses modular components allowing service to be simple, quick and inexpensive. It is capable of measuring on wider conveyors, at higher-speeds, and with more accuracy for more demanding dimensioning applications. There is also a type-approved version (details available on request) for legal-for-trade applications in the U.S., Canada and the European Union. Several versions (including custom configurations) are available for economical and cuboidal applications.

Features

The CubiScan 210-DS is a high-speed, high-accuracy in-line dimensioning systems. It is a dual sensor system for dimensioning non-cuboidal or cuboidal items in a more demanding cubing application. It is capable of accurately measuring "box" or "real" volume and is well suited for high-speed distribution and sortation applications. The CubiScan 210-DS sensors use Class 2 laser technology to measure object length, width and height. The sensors have self-contained controllers for measurement operation and communication output. Output data can easily be converted to a variety of Ethernet protocol to communicate directly with industrial PCs or PLCs.

No conveyors or in-line scale?

In cases where a facility has no conveying equipment, or if you are starting from the ground up, Quantronix can install a conveyor and 210-DS system. Weighing functionality can be added with a separate, but integrated, in-motion conveyor or static (dead-roller) scale. Barcode scanning equipment can also be included, giving you a complete turnkey cubing, weighing, and identification/tracking station.

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CUBING & WEIGHING SYSTEMS BY **QUANTRONIX**