

CubiScan[®] 210-SS

Applications/Benefits

Warehousing and Distribution

- Measures 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 high-speed distribution and sortation applications where efficiency 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-SS

Specifications

Performance Specifications	
Measurement Range	
Length	Min 2 in (50 mm) Max 60 in (1524 mm)
Width	Min 2 in (50 mm) Max 48 in (1220 mm)
Height	Min 2 in (50 mm) Max 36 in (914 mm)
Measurement Increment (LxWxH)	
Up to 394 fps (2 mps)	0.2x0.2x0.2 in (5x5x5 mm)
394 > 600 fps (2 > 3.05 mps)	0.4x0.4x0.2 in (10x10x5 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	10 - 200%
Detectable Object shape	Cuboidal
Useful Field of View	Maximum 70 degrees
Other	
Sensor Type	SICK VMS 410
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. 7.5 mW
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) and box 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-SS** 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-SS uses modular components allowing service to be simple, quick and inexpensive. 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. Other versions are also available, including precision and non-cuboidal applications.

Features

The CubiScan 210-SS is a lower-cost single sensor system for dimensioning cuboidal items that requires less-demanding accuracy. It is particularly well suited for high-speed distribution and sortation applications where efficiency and cost reduction are the primary objectives.

The CubiScan 210-SS sensor uses Class 2 laser technology to measure object length, width and height. The sensor has a self-contained controller 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’re starting from the ground up, Quantronix can install a conveyor and 210-SS 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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