TECHNICAL DATASHEET

MetriXFreight L13x.

Optimal measurement of parcels and mailers.

The L13x is your solution for fast and precise parcel dimensioning. With a measuring time of just 200 milliseconds, you can process up to 1,200 parcels per hour, ideal for dispatch centers and logistics companies. The L13x reduces errors, optimizes workflows and increases the efficiency of your logistics operations.

HIGHLIGHTS

- Fast and accurate measurement of boxes and cartons
- Scales integrated into roller conveyor
- Extremely simple and self-explanatory operation
- Maintenance and customer service via remote maintenance
- Low installation costs
- Photo of each measured item
- Direct feedback on successful measurement on the screen
- Predictive maintenance for high availability

01 System characteristics

System type	Static, no moving components
Sensor type	3D and color cameras, additional color cameras optional
Applications	Warehouses (incoming and outgoing), distribution centers, cross-docking locations, CEP service providers, etc.
Installation location examples	Stationary in the warehouse
Measurement objects	Rectangular objects such as boxes and parcels, pillow-shaped objects such as flyers and shipping bags. Restrictions possible with transparent or highly reflective surfaces
Acquired data	Length, width, height and weight
Calculated data (optional)	Volume weight
Master data (optional)	Additional master data attributes
Photos	Color photo of the measurement object, additional cameras optional

02 Performance characteristics

Min. object size (L × W × H)	10 × 10 × 5 cm / 3.9 × 3.9 × 2 in
Max. object size (L × W × H)	135 × 80 × 90 cm / 53 × 31 × 35 in (limited by the roller conveyor or table setup; OIML-certified up to 150 × 120 × 90 cm)
Measuring time	~ 200 ms
Operational throughput	≤ 1200 pieces/h (incl. scan, depending on the process)
3D cameras	1
Color cameras	1
Screen	1; touchscreen optional

	L130	L135
Certifications	none	OIML R129, EU type-examination certificate (MID), NTEP
Measuring accuracy	—	OIML R129: ± 1 cm (length/width) OIML R129: ± 0.5 cm (height) NTEP: ± 0.5 in (length/width/height)
Display resolution	1 mm	OIML R129: 1 cm (length/width) OIML R129: 0.5 cm (height) NTEP: 0.5 in (length/width/height)

03 Trigger interfaces

Automatic	Measures whenever a stable measurement can be made
Programmatic	Trigger via REST API or customer specific trigger plugin (optional)
Barcode scanner	Measurement triggered by connected barcode scanner

04 Data interfaces

QR code	Display of a dynamically generated QR code containing dimensions and optional weight
API	Submit data via standard JSON REST API or customer specific integration (optional)
File transfer	Store or submit as CSV, XLSX, PDF, optionally along with photos, via FTP, SFTP or a network share
Reporting	Customizable, with customer logo on request

05 Periphery and customization

Handhelds & scanners	Yes (only certified scanners)
Scales	Optional, integrated in the roller conveyor
Keyboard	Wireless (QWERTZ/QWERTY)
Connectivity	Ethernet (standard), WLAN (standard), LTE (optional)
Customized UI	Option of additional text input/output on screen (Master Edition) or consolidation of measurements of several packaging units and transfer as a data record to the customer system

06 Ambient conditions

Operating temperature	OIML R129: -10 – 55 °C NTEP: -10 – 40 °C
Relative humidity	0 – 85 %
Sealing against environmental influences	IP50
Lighting conditions	Indoors, no direct sunlight
Power supply	100 – 240 V AC; 50 – 60 Hz
Maximum current	2.3 A
Noise level caused	< 20 dB

07 Installation type: Rollertop



FOOTPRINT & PHYSICAL ENVELOPE

Integrated roller-conveyor scale.

LENGTH	WIDTH
1350 mm	1094 mm
HEIGHT	**WEIGHT**
2908 mm	160 kg

Integrated scale — platform size	Entire roller conveyor
Integrated scale — display resolution	20 g
Integrated scale — max. weight	60 kg
Integrated scale — approval	OIML R76-1
Weighing terminal	iS20
Weighing terminal — load cell	Z6 C3 / 100 kg

08 Installation type: Desktop Kit

Can be clamped or screwed to an existing table.



FOOTPRINT & PHYSICAL ENVELOPE

Desktop Kit for mounting on a table.

LENGTH

77 cm

WIDTH

61 cm

HEIGHT

124 – 184 cm

above table