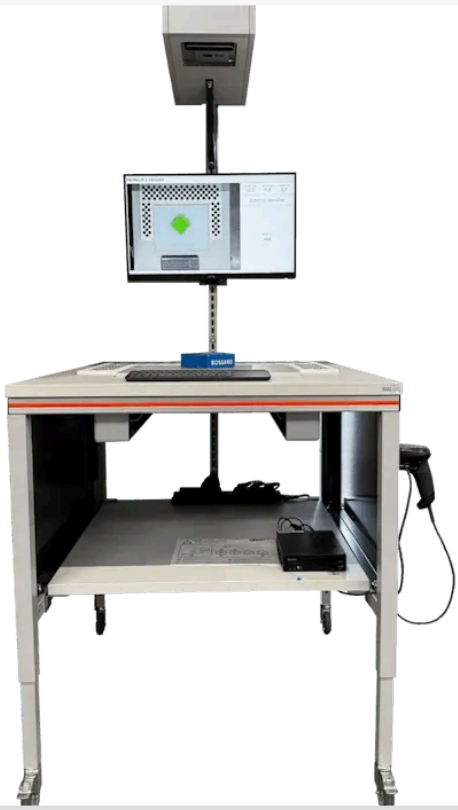
TECHNICAL DATASHEET

# MetriXFreight S140.

## Effortless master data collection.

The S140 gives you fast and precise measurements of length, width, height and weight. Designed for warehouses and distribution centers, it streamlines your logistics with easy handling and high accuracy. With automatic photo documentation, every object is visually recorded, giving you full transparency and security.



## HIGHLIGHTS

- Measurement of small objects
- Simply place the object on the scale, no alignment necessary
- Low installation effort
- Mobile use on battery power (battery supplied by the customer)
- Predictive maintenance for high availability
- Simple and self-explanatory operation
- Direct feedback on successful measurement on the screen
- Photo of each measured object
- Maintenance and customer service via remote maintenance
- Continuous function control

## 01 System characteristics

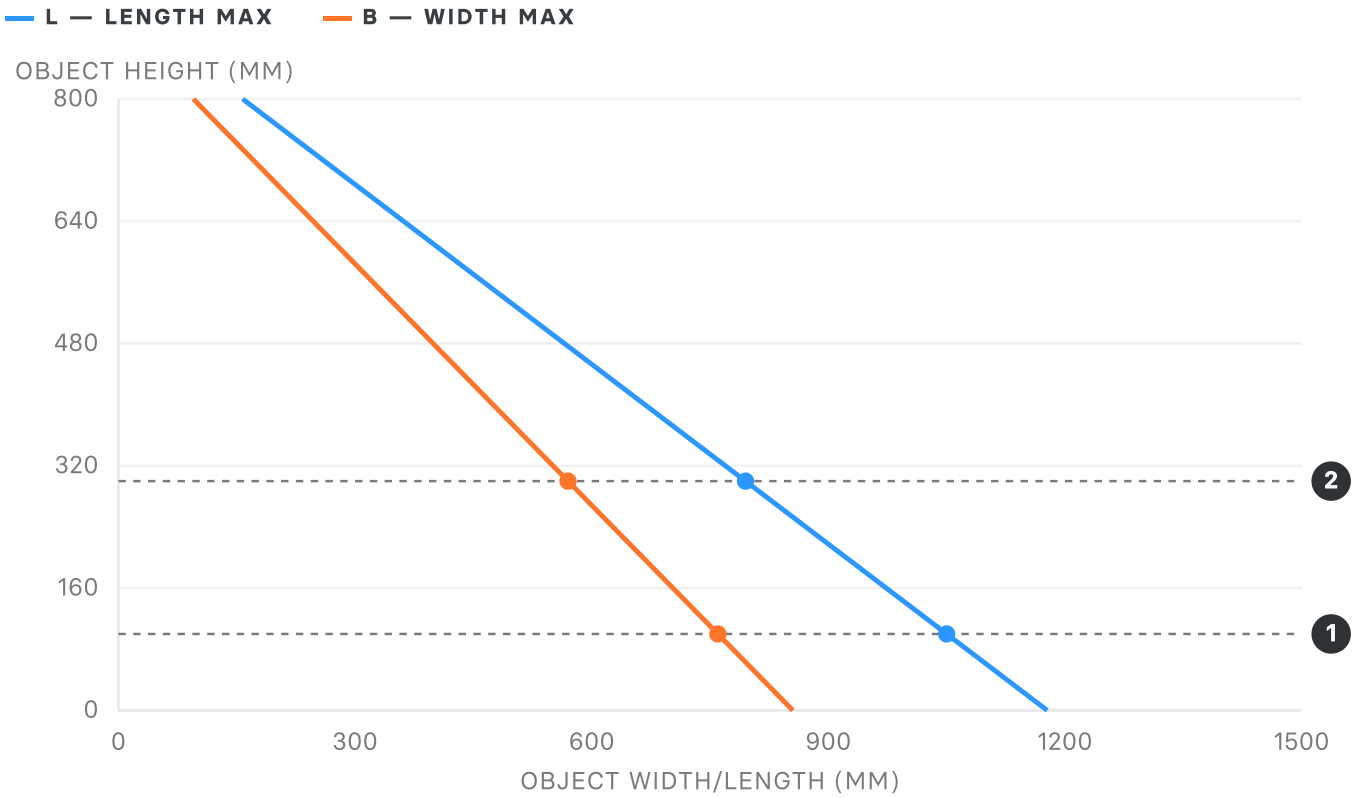
| | |
|---|---|
| **System type** | Static, no moving components |
| **Sensor type** | 3D and color cameras, additional color cameras optional |
| **Applications** | Warehouses (receiving and shipping), distribution centers, cross docking sites, master data acquisition, etc. |
| **Installation location examples** | Stationary or mobile use |
| **Measurement objects** | Box-shaped and irregularly shaped objects. Except entirely non-reflective or highly reflective objects. Particularly suitable for small boxes and very flat objects |
| **Acquired data** | Length, width, height and weight |
| **Calculated data (optional)** | Actual volume, volume weight |
| **Master data (optional)** | Additional master data attributes |
| **Photos** | Color photo of the measurement object, taken with an integrated camera under ambient conditions; additional cameras optional |

## 02 Performance characteristics

| | |
|---|---|
| **Min. object size (L × W × H)** | 1 × 1 × 0 cm / 0.4 × 0.4 × 0 in |
| **Max. object size (L × W × H)** | ≤ 120 × 85 × 70 cm / 47 × 33 × 28 in |
| **Measuring accuracy** | < 5 mm (mean deviation) |
| **Measuring time** | ~ 200 ms |
| **Display resolution** | 1 mm |
| **Operational throughput** | ≤ 750 pieces/h (incl. barcode scan) |
| **3D cameras** | 1 |
| **Color cameras** | 1 |
| **Screen** | 1; touchscreen optional |
| **Integrated scale — platform size** | 50 × 40 cm |
| **Integrated scale — max. weight** | 50 kg |
| **Integrated scale — display resolution** | 1 g |
| **Integrated scale — max. error** | 3 g |

## 03 Measurement cone

Due to the pyramid-shaped measuring cone of the camera, the maximum measurable object sizes vary depending on the height of the object. Lower object heights allow for measurement of larger maximum horizontal dimensions, as visualized in the following graph. The maximum side lengths [L (blue), B (orange), H (black)] can therefore not be measured at the same time.




1. Object height (H): 100 mm — max. measurable length (L): ~1050 mm; max. measurable width (B): ~760 mm.

2. Object height (H): 300 mm — max. measurable length (L): ~795 mm; max. measurable width (B): ~570 mm.

## 04 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 |

## 05 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 |

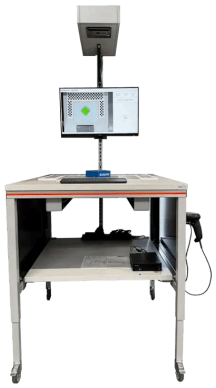
## 06 Periphery and customization

| | |
|---|---|
| **Scanners** | Wired barcode scanner (standard), wireless barcode scanner (optional) |
| **Additional color cameras** | Optional, for additional perspectives |
| **Battery operation** | Optional, for mobile use. The battery is not supplied by metrilus and must be provided by the customer |
| **Second screen app** | Optional, application for implementing customizable multi measurement workflows |
| **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 |

## 07 Ambient conditions

| | |
|---|---|
| **Operating temperature** | 0 – 40 °C |
| **Relative humidity** | 0 – 90 % |
| **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 |

## 08 Installation type: Table system



FOOTPRINT & PHYSICAL ENVELOPE

### Free-standing table workstation.

LENGTH
**100 cm**

WIDTH
**90 cm**

HEIGHT
**190 – 220 cm**
*height adjustable*

WEIGHT
**105 kg**