VM605

Mobile Dimensioning Cart

SCANTECH ID ®
CHAMPTEK Group

Introduction

The VM605 Mobile Dimensioning Cart is designed to enable quick and accurate **dimensioning directly at your parcel location**. VM605 cart consists of a long workstation that holds hardware including a weighing scale, barcode scanner, an optional printer or potable power system at the bottom to enable up to a 12+ hours working shift. A color touchscreen display provides instant feedback, a live image, measurements, weight and operator functions for day-to-day use.

Regular and irregular-shaped parcels are automatically calculated. Its daily measurement data or snapshot can be online transmitted to a designated host simultaneously or by set schedule.The VM605 series is an advanced dimensioning system that quickly and accurately measures parcels in high-volume shipping applications. With its 3D-imaging technologies and advanced algorithms to optimize time and throughput for static outbound shipments for small to medium-sized operations.

You can do local setup and daily operation by its touchscreen; or you can do remote configuration and measurement by access its built-in web-based tool from an Ethernet connection host. You can set up a schedule to transmit daily measurement data and snapshot to a designated host. It supports various automatic and manual measurement modes, its measurement process takes about one second with no specific orientation needed within the measurement area. Parcels and irregular-shaped packages like cylinders, spheres, tubes, polybags and uneven shapes are automatically calculated, eliminating the risk for human error. Each dimension provides an overhead image for use during claim disputes on damaged packages.

Features

- Requires virtually no special alignment or special handling while placing a package to increase throughput with adjustable scan zone and area of interest.

- Instantly measure cartons, parcels and other irregular shapes with precision.

- No moving parts, making it user-installable and easily maintained.

- Supports various configurable measuring ways, automatic, manual, barcode scanner or weighing scale triggering measurement.

- Converts irregular shapes like stacked cartons, cylinders, spheres, tubes, polybags and uneven shapes to its minimum cuboidal dimension.

- Its daily measurement data or snapshot can be transmitted to a designated host by a pre-set schedule or manually.

- No additional installation of software required on your PC. When connected to a network via static IP or DHCP, you can access its built-in web-based tool to do remote configuration, monitoring and measurement.

- VM605 Including a mobile cart, a 3D volume measuring camera, a weighing scale, a 2D barcode scanner, a 10" touch display and a height adjustable stand (camera height 70cm/95cm/120cm), built in both volume measuring and remote management software. Suggest to purchase the portable battery locally in your area. Optional: Thermal printer.

VM605

Measurement Range

Mounted Height : 70cm
(d=0.5 regular shape, d=1 irregular shape)

Object Height (cm)	Maximum Length (cm)	Maximum Width (cm)
2.54	65	40
5	60	35
10	55	30
15	45	25
25	35	20

Mounted Height : 95cm
(d=0.5 regular shape, d=1 irregular shape)

Object Height (cm)	Maximum Length (cm)	Maximum Width (cm)
2.54	95	55
10	85	50
20	70	40
30	60	35
40	50	30

Mounted Height : 120cm
(d=0.5 regular shape, d=1 irregular shape)

Object Height (cm)	Maximum Length (cm)	Maximum Width (cm)
2.54	120	75
15	105	65
25	95	60
40	75	45
60	55	30

Note: the smallest size VM605 can measure is 2(W)x2(L)x0.5(D)cm while its camera is mounted at height 70cm and to apply a transparent bracket.

Specification

Physical Characteristics

VM605 camera (WxLxH)	160 x 138 x 53 mm
Full assembly with Stand	TBD
VM600 camera (weight)	725 g (25.57 oz)
Full assembly with Stand	TBD

Electrical Characteristics

Input voltage	DC 12V
Power consumption (Typ.)	600mA operating

I/O Ports

USB 3.0 Type A (Host) x 3
USB 3.0 Type C (Device) x 1
HDMI x 1
Ethernet port x1
Power jack port x 1

Environmental Specifications

Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Relative humidity	0 to 70% relative humidity, non condensing
Ambient light	0 to 10000 lux, avoid direct sunlight
Sealing protection	IP42

Performance Specifications

Field of view	Horizontal 74°, Vertical 50°
Shape	Cubic, cuboidal and irregular shapes
Accuracy	d=0.5, less than ±0.5cm deviation / irregular d=1
Measurement time	Less than 1 second
Texture	All opaque packaging , except very glossy and transparent

Measurement surface

The background should have a contrasting color for items to be dimensioned, avoid over polished or glossy surfaces for best performance

Indicator

Beep and LED

VMScan

Device: VM600   IP: 192.168.1.92

- Initial Setup
- Start measuring
- Demo display
- Suspend

VMScan | Device Info | View Eula | About | Home | Date-Time: 2023-05-10 10:26:16

Dimension Unit: cm

Length: 33.8
Width: 23.4
Height: 10.4
L+W+H: 67.6
Volume: 8225.57

*Weight Factor: 5000   Weight Unit: kg
*DIM Weight: 1.65
Scale Weight: _-__

Remove

Manually Trigger

*Volume and Dimensional Weight outputs are for information only and are not certified measurements.
*Dimensional weight will be BLANK if no weight factor is set.

Barcode:

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