



VM600

Overhead Static Dimensioning System

SCANTECH ID[®]
CHAMPTEK Group

Introduction

The VM600 series is an advanced, overhead parcel 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.

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. A color touchscreen display provides instant feedback, a live image, measurements, weight and operator functions for day-to-day use.

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.

The VM600's sturdy, low-profile frame, slim configuration, and simple design allow it to easily integrate into any shipping line or VMS station.

Features

- Easy to assemble with limited operation training required.
- 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 4 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.
- VM600 includes a dimensioning camera and suite a 10.1" color touchpanel for set up, operation and displays dimensions, status and weight if a weighing scale is directly attached.
- Optional kits as selection: height adjustable high or short stand, weighing scale and barcode scanner.

VM600

Measurement Range



Model VM601

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

Mounted Height : 150cm
(d=0.5 regular shape, d=1 irregular shape)

Object Height (cm)	Maximum Length (cm)	Maximum Width (cm)
2.54	155	95
25	130	80
50	100	60
70	75	45
90	55	30

Mounted Height : 180cm
(d=1 regular shape, d=2 irregular shape)

Object Height (cm)	Maximum Length (cm)	Maximum Width (cm)
7.62	190	115
30	160	100
60	125	75
90	90	55
120	55	30

Model VM602

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

Specification

Physical Characteristics

VM600 camera (WxLxH)	160 x 138 x 53 mm
Full assembly with Stand	500 x 900 x 1650 mm (camera at 150cm)
VM600 camera (weight)	725 g (25.57 oz)
Full assembly with Stand (weight)	19.16 kg (42.24 lbs)

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

3 Models VM600, VM601 and VM602

VM600, consists of a dimensioning camera plus its accessories suite
Accessories suite: 10.1" touch panel, HDMI and USB cables to connect touch panel, 3m Ethernet cable, power adaptors and a 10cm cube calibration box

VM601, consists of **VM600** and an adjustable high stand

VM602, consists of **VM600** and an adjustable short stand

Optional kit :

Height adjustable stand (high stand can adjust camera at height 120/150/180cm, short stand 70/95/120cm)

Electronic weighing scale, Barcode scanner

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

