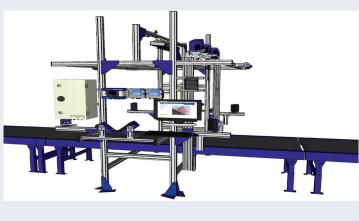
### 

# **MFDS MassFlowDetectionSystem**

### Efficient data collection for non-conveyable parcels





13in, W=13.2in, H=9.5in H=6.7in

1in W=9 4in H=3in



#### MFDS: THE ADVANCED SOLUTION ENABLING AUTOMATED DATA COLLECTION FOR NON-CONVEYABLE PARCELS

MFDS increases process efficiency by automating 4 data collections, introducing the D<sup>4</sup> concept:

- DETECT items even when touching or running side by side on large conveyors (up to 1.5 m)
- DIMENSION items, regular or irregular shaped, LFT certified . measurements
- DECODE barcode information on labels and merge it with the respective item
- . DEPICT items by capturing and saving respective images

MFDS brings together our best products plus a smart software integration to deliver a turn-key solution:

- Items are DETECTED and DIMENSIONED with the recognized DM3610 LFT measurement system enhanced with advanced 3D analysis to separate irregular shaped objects that are touching
- Barcodes present on items are DECODED by multiple . technologies: area imagers (AV900, typically covering from top) and laser readers (DS8110, from remaining sides)
- . SC5100 system controller is the system's brain merging all data with the correct parcel
- AV900 area imagers and a color IP camera take multiple views of . items running over the conveyor belt. These images can be used for video coding activities and will provide another proof of the objects' condition.

#### HIGHLIGHTS

- Automated data collection (replaces manual barcode reading) for large items in a non-singulated flow
- Legal for trade volume measurement for a non-singulated flow
- Leverages standard, well known proven components, empowered by new 3D algorithms and system integration software (AV9000, DS8110, DM3610)
- State-of-the-art 3D analysis of touching objects allows a maximum level of object recognition (separation and detection of each item running even if they are touching or side by side)
- The main system component comes in one pallet for ease of installation

#### **TARGET MARKETS AND APPLICATIONS**

**Transportation and Logistics:** Postal and couriers 3PL **Retail and E-Commerce**: Distribution centers

#### BENEFITS

- · Saves time with automated data collection
- Increases revenue recovery
- · Improved reliable tracking (leading to better customer service quality) with automated data collection vs. manual data collection

#### MFDS

## TECHNICAL SPECIFICATIONS

Material Flow	Singulated and non-singulated; Conveyor width up to 1500 mm / 60 in		
Dimensioning Accuracy	±0.2" for length and width, ±0.1" for height ± 5 mm for length, width, ±2 for height		
Box Size (maximum)	L 3800 x W 1200 x H 900 mm / L 150 x W 60 x H 36 in		
Box Size (minimum)	L 50 x W 50 x H 20 mm / 2.4 x 2.4 x 1.2 in		
Laser Type	Visible laser diode (red) 660 nm, CDRH Class II, IEC 60825-1 Class 3R (Class 2 with adapter)		
Temperature	Operating: 0 to 50 °C / 32 to 122 °F Storage: -20 to 70 °C / -4 to 158 °F		
Relative Humidity	10-90% non-condensing		
Power Requirements	24 VDC +/- 10%		
Power Consumption	1450 W Max (full configuration)		
Communication Interfaces	Ethernet (TCP/IP), RS-232 / RS-422 / RS-485 (Ethernet IP, Profinet, Profibus available as options)		
Programming	On board HTML web server interface		
Warranty	2-year limited, parts and labor		
Compliances	UL, cUL, FCC (Class A) CE		
Legal for Trade Certifications	OIML/MID, NCWM/NTEP, Measurement Canada		
Barcode Reading Capability	TOP Imager: 1D and 2D (narrow element greater or equal to 0.3 mm [11.8 mil] for 1D ; narrow element greater or equal to 0.5 mm [20 mil] for 2D) TOP Laser: 1D (narrow element greater or equal to 0.3 mm [11.8 mil] for 1D) SIDES Laser: 1D (narrow element greater or equal to 0.3 mm [11.8 mil] for 1D)		

### MODELS

PART NUMBER	DESCRIPTION	
932700003	MFDS-1100 Top Imager NTEP	
932700004	MFDS-1101 Top Imager MID	
932700005	MFDS-1110 Top Laser NTEP	
932700006	MFDS-1111 Top Laser MID	
932700001	MFDS-1500 5S Full NTEP	
932700002	MFDS-1501 5S Full MID	
932700008	MFDS-1522 5S 6AV 12DS CANADA	

### ACCESSORIES

CATEGORY	PART NUMBER	DESCRIPTION
POWER CABINET	93ACC0319	PWR-1440-US PWR UNIT 110VAC 24V
	93ACC0326	PWR-1440-EU PWR UNIT 230VAC 24V

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