BinMaster Price Book

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3DLevelScanner

BIN MASTER

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F.O.B. Lincoln, Nebraska USA

Shipping Address: 7201 N. 98th St., Lincoln, NE 68507 / Mailing Address: P.O. Box 29709, Lincoln, NE 68529
Phone: 800-278-4241 or 402-434-9102 / Fax: 402-434-9133
www.binmaster.com / info@binmaster.com

3DLEVELSCANNER STANDARD

MODEL	DESCRIPTION	PRICE	PART NO.
3DLS-S	3DLevelScanner-S with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Determines the average volume of stored materials based on a 30° beam angle in silos up to 14' diameter and 200' tall. Unit comes with internal LCD display and 3DVision software is included with every unit supplied. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0559
3DLS-M	3DLevelScanner-M with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Unit comes with internal LCD display and 3DVision software is included with every unit supplied. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0560
3DLS-MV	3DLevelScanner-MV with 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Accurate readings of level and volume of stored materials based on a 70° beam angle. Wider beam angle is appropriate for silos up to 45' in diameter and 200' tall, and where improved accuracy in smaller silos is required. Identical to the Model 3DLS-M, with the addition of a special tool that allows 3D graphical representation of the stored contents for display on a remote computer screen. Unit comes with internal LCD display and 3DVision software is included with every unit supplied. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0561

3DLEVELSCANNER FOR HIGH TEMPERATURES

MODEL	DESCRIPTION	PRICE	PART NO.
3DLS-S-HT	Same as 3DLS-S with extended temperature up to 365°F. No hazardous location approvals.	Call Us	730-0634
3DLS-M-HT	Same as 3DLS-M, with extended temperature up to 365°F. No hazardous location approvals.	Call Us	730-0635
3DLS-MV-HT	Same as 3DLS-MV with extended temperature up to 365°F. No hazardous location approvals.	Call Us	730-0636

3DLEVELSCANNER WITH TEFLON COATED TRANSDUCER

MODEL	DESCRIPTION	PRICE	PART NO.
3DLS-S-TC	Same as 3DLS-S with Teflon coated horn. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0637
3DLS-M-TC	Same as 3DLS-M with Teflon coated horn. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0638
3DLS-MV-TC	Same as 3DLS-MV with Teflon coated horn. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0639

Notes: Models 3DLS-S/HT/TC, 3DLS-/HT/TC, and 3DLS-MV/HT/TC can be used on silos with a larger diameter than specified, but with decreased accuracies given that the scanner's beam angle will not span the entire surface of the material. For a very accurate reading of volume and 3D profiling, it is necessary to stay within the specified diameter and silo heights.

RL Acoustic Level Sensor

MODEL	DESCRIPTION	PRICE	PART NO.
3DLS-RL	Acoustic level sensor RL, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 185°F (85°C). FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0646
3DLS-RL-TC	Acoustic level sensor RL, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 185°F (85°C). FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0652

3DLEVELSCANNER MULTIPLE SCANNER SYSTEMS

MODEL	DESCRIPTION	PRICE	PART NO.
3DLS-ML	3DLevelScanner-ML is for use in multiple scanner systems that do not include the 3D visualization feature. It features a 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. When used in a multi-scanner system, it provides accurate readings of level and volume for stored materials based on two or more synchronized ML units. The multi-scanner system provides an analog output which represents (as a default value) the overall volume of the contents of the entire silo. Unit comes with internal LCD display and 3DVision software. A controller (purchased separately) calculates volume by integrating data from multiple scanners. Appropriate for silos up to 200' tall. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0640
3DLS-ML-HT	Same as 3DLS-ML with extended temperature up to 365°F. No hazardous location approvals.	Call Us	730-0641
3DLS-ML-TC	Same as 3DLS-ML with Teflon coated horn. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0642
3DLS-MVL	3DLevelScanner-MVL is for use in multiple scanner systems that include the 3D visualization feature. It features a 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. When used in a multi-scanner system, it provides accurate readings of level and volume for stored materials based on two or more synchronized MVL units. The multi-scanner system provides an analog output which represents (as a default value) the overall volume of the contents of the entire silo. Unit comes with internal LCD display and 3DVision software. A controller (purchased separately) calculates volume and unifies the visualization by integrating data from multiple scanners. Appropriate for silos up to 200' tall. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0626
3DLS-MVL-HT	Same as 3DLS-MVL with extended temperature up to 365°F. No hazardous location approvals.	Call Us	730-0644
3DLS-MVL-TC	Same as 3DLS-MVL with Teflon coated horn. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call Us	730-0643

Notes: The accuracy of a multi-scanner system is determined by a number of variables including the height and diameter of the tank, the number of 3DLevelScanners installed, and the location of the scanners on the tank. Please contact BinMaster to discuss the application and to determine the number of scanners needed, their installation locations and the desired level of accuracy.

3D MULTI-SCANNER CONTROLLER

MODEL	DESCRIPTION	PRICE	PART NO.
IC-3DMVL	Each multi-scanner system requires a controller that is supplied with 3DVision software. The software processes the measurement data recorded by each of the scanners in the multi-scanner system in the silo, open bin, or warehouse. A special algorithm combines the data from the scanners in the system and provides general vessel information as well as volume, minimum and maximum level, distance and mass. When used with 3DLS-MVL/HT/TC models, the software also provides a 3D visualization.	Call Us	730-0648

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WIRELESS TRANSCEIVERS AND ACCESSORIES

MODEL	DESCRIPTION	PRICE	PART NO.
WEM	Wireless Ethernet modem	Call Us	730-0673
MCK	Media converter kit in NEMA 4X enclosure 10" x 8" x 4"	Call Us	730-0674
ETH-USB	Ethernet to USB adapter	Call Us	344-0013

3DLEVELSCANNER CONNECTION ACCESSORIES

MODEL	DESCRIPTION	PRICE	PART NO.
3DVS	BinMaster 3D MultiVision software works in conjunction with all models of the 3DLevelScanner sensors to provide measurement data to a Windows®-based computer. The software is used to view the inventory in multiple silos, and over multiple locations (unlimited users).	Call Us	730-0598
RS-485-USBI	Isolated USB to RS-485 converter used to connect USB port to RS-485 network when using 3DVision or 3D MultiVision software.	Call Us	530-0174
Data Cable	RS-485 communication cable, shielded twin axial, twisted pair, low capacitance, Belden 3105A	Call Us	398-0543
USB-HRT	MicroLink USB HART modem	Call Us	344-0005
UESP211	Communication adapter, TCP / IP to serial	Call Us	344-0006
PSDC-1	24 VDC / 30 VA, NEMA 1 Din rail mounted power supply, powers up to 7 scanners or 3 scanners and one LinkPro	Call Us	399-0022
PSDC-4	24 VDC / 30 VA, NEMA 4X Enclosure mounted power supply, powers up to 7 scanners or 3 scanners and one LinkPro	Call Us	730-0577

3DLEVELSCANNER MOUNTING PLATES

MODEL	DESCRIPTION	PRICE	PART NO.
3DMP-CS	0° Mild carbon steel powdered coated mounting plate, 13.38" diameter with 11.75" bolt hole circle	Call Us	416-0565
3DMP-SS	0° Stainless steel mounting plate, 13.38" diameter with 11.75" bolt hole circle	Call Us	416-0566
3DMP-CS0	0° Mild carbon steel powdered coated mounting assembly (must order with 0° mounting plate)	Call Us	416-0571
3DMP-CS5	5° Mild carbon steel powdered coated mounting assembly (must order with 0° mounting plate)	Call Us	416-0551
3DMP-CS10	10° Mild carbon steel powdered coated mounting assembly (must order with 0° mounting plate)	Call Us	416-0552
3DMP-CS15	15° Mild carbon steel powdered coated mounting assembly (must order with 0° mounting plate)	Call Us	416-0553
3DMP-CS20	20° Mild carbon steel powdered coated mounting assembly (must order with 0° mounting plate)	Call Us	416-0554
3DMP-CS30	30° Mild carbon steel powdered coated mounting assembly (must order with 0° mounting plate)	Call Us	416-0555
3DMPK-CS0	Flat mild carbon steel mounting plate and 0° mild carbon steel powdered coated mounting assembly	Call Us	416-0650
3DMPK-CS5	Flat mild carbon steel mounting plate and 5° mild carbon steel powdered coated mounting assembly	Call Us	416-0651
3DMPK-CS10	Flat mild carbon steel mounting plate and 10° mild carbon steel powdered coated mounting assembly	Call Us	416-0652
3DMPK-CS15	Flat mild carbon steel mounting plate and 15° mild carbon steel powdered coated mounting assembly	Call Us	416-0653
3DMPK-CS20	Flat mild carbon steel mounting plate and 20° mild carbon steel powdered coated mounting assembly	Call Us	416-0654
3DMPK-CS30	Flat mild carbon steel mounting plate and 30° mild carbon steel powdered coated mounting assembly	Call Us	416-0655

30° mounting plate

Scanner with flat mounting plate inserts through 30° mounting plate

Assembled flat and 30° mounting plates

3DLEVELSCANNER EXTENSION KITS

MODEL	DESCRIPTION	PRICE	PART NO.
3DEXT-KIT 2G	3DLevelScanner 2' neck extension kit, contains top and bottom stainless steel fittings, 2' connection cable, and 2' threaded galvanized extension pipe. Total separation distance 2.5'.	Call Us	416-0592
3DEXT-KIT 4G	3DLevelScanner 4' neck extension kit, contains top and bottom stainless steel fittings, 4' connection cable, and 4' threaded galvanized extension pipe. Total separation distance 4.5'.	Call Us	416-0593
3DEXT-KIT 6G	3DLevelScanner 6' neck extension kit, contains top and bottom stainless steel fittings, 6' connection cable, and 6' threaded galvanized extension pipe. Total separation distance 6.5'.	Call Us	416-0594
3DEXT-KIT 10G	3DLevelScanner 10' neck extension kit, contains top and bottom stainless steel fittings, 10' connection cable, and 10' threaded galvanized extension pipe. Total separation distance 10.5'.	Call Us	416-0595
3DEXT-KIT 2S	3DLevelScanner 2' neck extension kit, contains top and bottom stainless steel fittings, 2' connection cable, and 2' threaded stainless steel extension pipe. Total separation distance 2.5'.	Call Us	416-0596
3DEXT-KIT 4S	3DLevelScanner 4' neck extension kit, contains top and bottom stainless steel fittings, 4' connection cable, and 4' threaded stainless steel extension pipe. Total separation distance 4.5'.	Call Us	416-0597
3DEXT-KIT 6S	3DLevelScanner 6' neck extension kit, contains top and bottom stainless steel fittings, 6' connection cable, and 6' threaded stainless steel extension pipe. Total separation distance 6.5'.	Call Us	416-0598
3DEXT-KIT 10S	3DLevelScanner 10' neck extension kit, contains top and bottom stainless steel fittings, 10' connection cable, and 10' threaded stainless steel extension pipe. Total separation distance 10.5'.	Call Us	416-0599
3DEXT-KIT 2NP	3DLevelScanner 2' neck extension kit, contains top and bottom stainless steel fittings, 2' connection cable, NO PIPE (customer supplies own pipe up to 2' length)	Call Us	416-0600
3DEXT-KIT 4NP	3DLevelScanner 4' neck extension kit, contains top and bottom stainless steel fittings, 4' connection cable, NO PIPE (customer supplies own pipe up to 4' length)	Call Us	416-0601
3DEXT-KIT 6NP	3DLevelScanner 6' neck extension kit, contains top and bottom stainless steel fittings, 6' connection cable, NO PIPE (customer supplies own pipe up to 6' length)	Call Us	416-0602
3DEXT-KIT 10NP	3DLevelScanner 10' neck extension kit, contains top and bottom stainless steel fittings, 10' connection cable, NO PIPE (customer supplies own pipe up to 10' length)	Call Us	416-0603

The 3DLevelScanner optional neck extensions are used when it's necessary to lower the horn assembly of the Scanner below obstacles through a thick roof or on a raised socket. The neck extensions in 2', 4', 6', and 10' lengths allow the 3DLevelScanner to be effectively installed without any degradation in performance or the need for special structural alterations or adapters.