

3DLEVELSCANNER

ORDER CODE	DESCRIPTION	LIST PRICE	PART NUMBER
STANDARD			
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. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	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. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	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. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	730-0561
HIGH TEMPERATURES			
3DLS-S-HT	3DLevelScanner-S with extended temperature up to 365°F 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. No hazardous location approvals. One year warranty.	Call for price	730-0634
3DLS-M-HT	3DLevelScanner-M with extended temperature up to 365°F 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. No hazardous locations approvals. One year warranty.	Call for price	730-0635
3DLS-MV-HT	3DLevelScanner-MV with extended temperature up to 365°F 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. No hazardous location approvals. One year warranty.	Call for price	730-0636

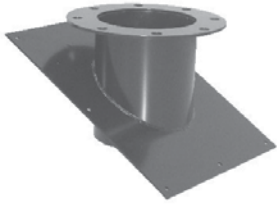
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ORDER CODE	DESCRIPTION	LIST PRICE	PART NUMBER
TEFLON COATED TRANSDUCER			
3DLS-S-TC	3DLevelScanner-S with Teflon coated 7.67" diameter horn, 20-36 VDC, 4-20 mA output / Hart protocol, and RS-485 communications. Determines the average volume of stored 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. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	730-0637
3DLS-M-TC	3DLevelScanner-M with Teflon coated 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. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	730-0638
3DLS-MV-TC	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. Hazardous location approved, FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	730-0639
RL ACOUSTIC			
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). Unit comes with internal LCD display and 3DVision software. One year warranty.	Call for price	730-0646
3DLS-RL-TC	Acoustic level sensor RL with Teflon coated horn, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 185°F (85°C). Unit comes with internal LCD display and 3DVision software. FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	730-0652
3DLS-RL-HT	Acoustic level sensor RL High Temperature, 4-20 mA and RS-485 output. Four-wire 24 VDC power. Maximum operating temperature 365°F (185°C). Unit comes with internal LCD display and 3DVision software. FM listed for Class I, II, Division 1, Groups C, D, E, F & G. One year warranty.	Call for price	730-0647

3DLEVELSCANNER

ORDER CODE	DESCRIPTION	LIST PRICE	PART NUMBER
MULTIPLE SCANNER SYSTEMS			
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 for price	730-0640
3DLS-ML-HT	3DLevelScanner-ML with extended temperature up to 365°F 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 multiscanner 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. No hazardous location approvals. One year warranty.	Call for price	730-0641
3DLS-ML-TC	ML is for use in multiple scanner systems that do not include the 3D visualization feature. It features a Teflon coated 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 for price	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 multiscanner 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 for price	730-0626
3DLS-MVL-HT	3DLevelScanner-MVL with extended temperature up to 365°F 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. No hazardous location approvals. One year warranty.	Call for price	730-0644
3DLS-MVL-TC	3DLevelScanner-MVL is for use in multiple scanner systems that include the 3D visualization feature. It features a Teflon coated 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 for price	730-0643

3DLevelScanner Mounting Plates & Extensions



30° mounting plate



Scanner with flat mounting plate inserts through 30° mounting plate



Assembled flat and 30° mounting plates



0° Mounting Plate



Pre-Assembly

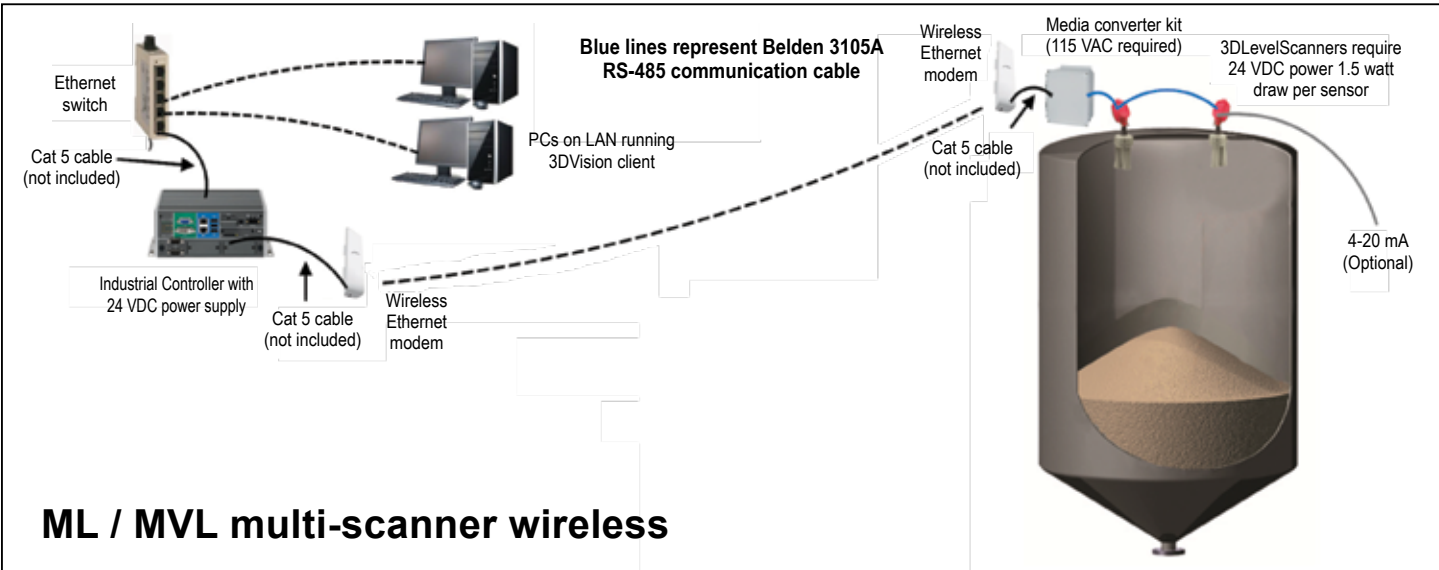
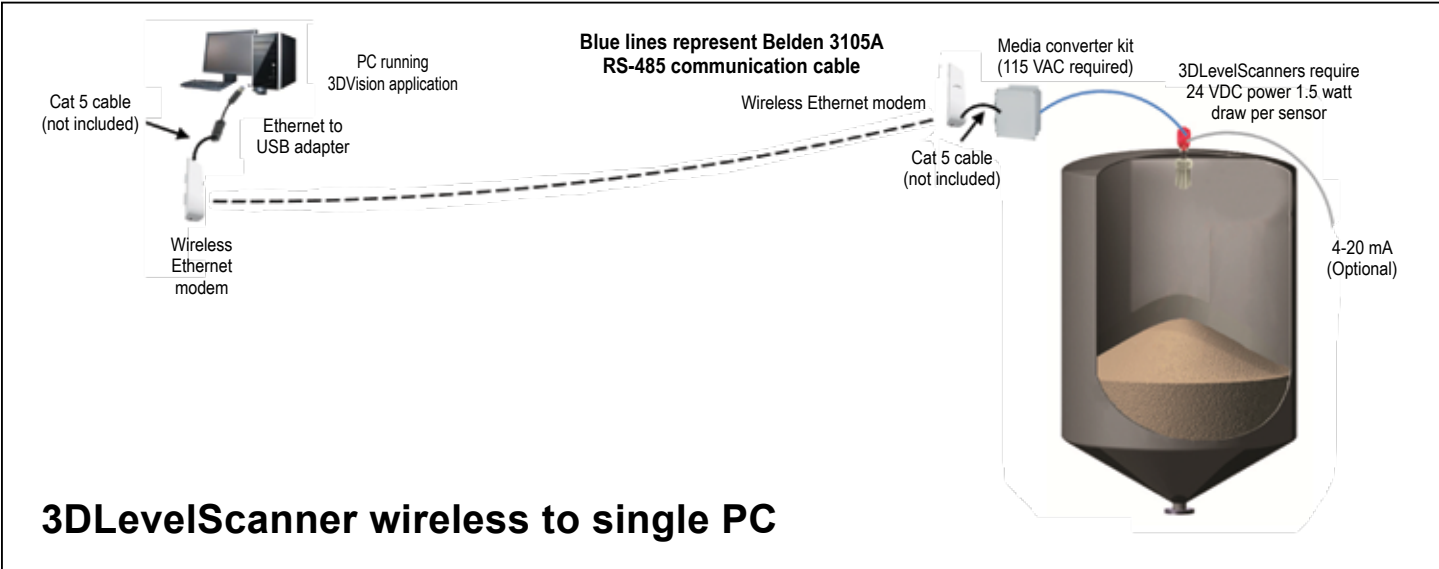
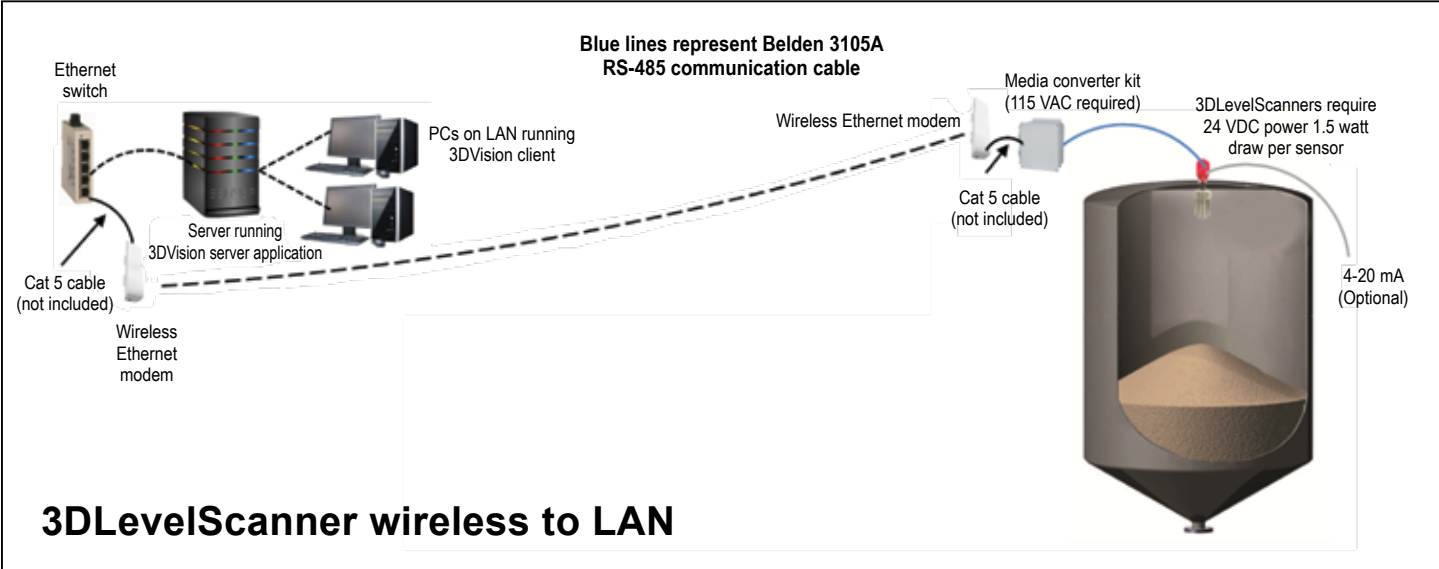


Assembled



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 1', 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.

3DLevelScanner – Wireless Configurations



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MULTIPLE SCANNER CONTROLLER			
IC-3DMVL	Multi-scanner system controller 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 for price	730-0648
WIRELESS TRANCEIVERS & ACCESSORIES			
WEM	Ubiquiti - Wireless Ethernet Modem - WEM	Call for price	730-0673
Rocket M5 56 GHz	Ubiquiti - Rocket M5 Base Station Radio	Call for price	530-0814
Antenna	Ubiquiti - Base Station 56Ghz Antenna	Call for price	303-0025
MCK	MCK - Media converter kit in NEMA 4X enclosure 10" x 8" x 4"	Call for price	730-0674
ETH-USB	ETH-USB - Ethernet to USB adapter	Call for price	344-0013
CONNECTION ACCESSORIES			
3DVS	BinMaster 3D MultiVision software works in conjunction with all models of the 3DLevel-Scanner 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 for price	730-0598
RS-485-USBI	Isolated USB to RS-485 converter used to connect USB port to RS-485 network.	Call for price	530-0174
Data Cable	ft. of RS-485 communication cable, shielded twin axial, twisted pair, low capacitance, Belden 3105A.	Call for price	398-0543
USB-HRT	USB to HART modem	Call for price	344-0016
UESP211	UESP211 - TCP-IP to serial communication adapter	Call for price	344-0006
PSDC-1	PSDC-1 - 24 VDC / 30 VA, NEMA 1 din rail mounted power supply	Call for price	399-0022
PSDC-4	PSDC-4 - 24 VDC / 30 VA, NEMA 4X enclosure mounted power supply	Call for price	730-0577
MOUNTING PLATES			
3DMP-CS	3DMP-CS - 0° Mild carbon steel powder coated mounting plate, 13.38" diameter with 11.75" bolt hole circle	Call for price	416-0565
3DMP-SS	3DMP-SS - 0° Stainless steel mounting plate, 13.38" diameter with 11.75" bolt hole circle	Call for price	416-0566
3DMP-CS0	3DMP-CS0 - 0° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	Call for price	416-0571
3DMP-CS5	3DMP-CS5 - 5° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	Call for price	416-0551
3DMP-CS10	3DMP-CS10 - 10° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	Call for price	416-0552
3DMP-CS15	3DMP-CS15 - 15° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	Call for price	416-0553
3DMP-CS20	3DMP-CS20 - 20° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	Call for price	416-0554
3DMP-CS30	3DMP-CS30 - 30° Mild carbon steel powder coated mounting assembly (must order with 0° mounting plate)	Call for price	416-0555
3DMPK-CS0	3DMPK-CS0 - Flat mild carbon steel mounting plate and 0° mild carbon steel powder coated mounting assembly	Call for price	416-0650
3DMPK-CS5	3DMPK-CS5 - Flat mild carbon steel mounting plate and 5° mild carbon steel powder coated mounting assembly	Call for price	416-0651
3DMPK-CS10	3DMPK-CS10 - Flat mild carbon steel mounting plate and 10° mild carbon steel powder coated mounting assembly	Call for price	416-0652
3DMPK-CS15	3DMPK-CS15 - Flat mild carbon steel mounting plate and 15° mild carbon steel powder coated mounting assembly	Call for price	416-0653
3DMPK-CS20	3DMPK-CS20 - Flat mild carbon steel mounting plate and 20° mild carbon steel powder coated mounting assembly	Call for price	416-0654
3DMPK-CS30	3DMPK-CS30 - Flat mild carbon steel mounting plate and 30° mild carbon steel powder coated mounting assembly	Call for price	416-0655

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ORDER CODE	DESCRIPTION	LIST PRICE	PART NUMBER
EXTENSION KITS			
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 for price	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 for price	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 for price	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 for price	416-0595
3DEXT-KIT 1S	3DLevelScanner 1' neck extension kit, contains top and bottom stainless steel fittings, 1' connection cable, and stainless steel coupler. Total separation distance 1'.	Call for price	416-0662
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 for price	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 for price	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 for price	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 for price	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 for price	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 for price	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 for price	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 for price	416-0603