Technical Reference

LR-3000 Reader – Material List for Installation

The listed items are components of most installations with AWID's LR-3000 UHF long-range reader. Items 1 to 5 are AWID's standard products. Items 1 through 8 are described in AWID's technical documents. Items 6 through 11 are available from local distributors or online suppliers.

	Qty.	Part Number	Product	Source
1.	__	LR-3000-B-U	Long-Range UHF Reader, 902-928 MHz band, with antenna; 2 LEDs; weather-protected.	AWID
2.	__	LR-MB-0-0	Mounting Bracket for LR-3000 reader, 11 inches long, pan-and-tilt adjustable head.	AWID
3.	__	(see product sheet or price list)	Tags and Cards (select): **WS-UHF** Windshield Tag, **RV-UHF** Rearview Mirror Tag, **SV-UHF** Sideview Mirror Tag, **VT-UHF** Sunvisor Tag, **PT-UHF** Portable Tag, **HT-UHF** Hangtag, **MT-UHF** Metal-Mount Tag, **ST-UHF** Supertag, **KT-UHF** Keytag, **CS-UHF** Clamshell Card, and/or **GR-UHF** Graphics Card. (Include code information in order: bit format, facility or site code, and starting ID no.)	AWID
4.	1	LR-TEK-0-0	LR Reader Tech Kit with LR-Sounder test unit, PS-123.3A power module, WS-UHF tag on windshield glass, CS-UHF card, dual cable adapter (USB to DB9 to clips), instructions, and fitted carton. (Kit is *required* first-time order for each installer company.) See Note 1.	AWID
5.	__	PS-123.3A-0-0	DC Power Module for LR-3000 reader (1 power supply dedicated to each reader), plug-in type, ~12 volts, 3.3 amperes maximum load. (DC power specifications for LR-3000 are 12 to 14 volts DC, 2.5 amperes or 3.5 amperes rating, linear, regulated. See Note 2.)	AWID
6.	__	_____	Pole, post, pedestal or arm to locate LR-3000 reader (if required): For passenger vehicles, ~8 feet high, at side of lane. Reader may be mounted above vehicle lane, using a bracket. Mounting for other vehicle types: Call AWID's Technical Support.	See Note 3
7.	__	_____	Cable for DATA: 22 gauge, 3 conductors, overall shielded*, not twisted-pairs, color-coded insulation, plastic jacket. Length = up to 500 feet for Wiegand or 75 feet for RS-232. For data from one reader to the panel's input port. See Note 4.	Distributor
8.	__	_____	Cable for POWER: 18 gauge, 2 conductors, overall shielded*, color-coded insulation, plastic jacket. Length = must be **at least** 12 feet, up to 500 feet. For DC power between one reader and its dedicated power supply. See Note 4. (* *Power cable **must** be shielded.*)	Distributor
9.	__	_____	Vehicle sensors: safety loop (1 required for each gate); reader arming loop (1 for each reader if presence of vehicle arms the reader).	Distributor
10.	__	_____	Gate, Gate Motor and Controller as selected by the installer.	Manufacturer
11.	1	_____	Access Control or A.V.I. System (the "head end") as selected by the user or installer.	Distributor or Manufacturer

Note 1   LR-2000KIT UHF Reader Test Kit is an alternative. It contains also the LR-2000-EVAL reader, and a set of 7 UHF tags and cards, in a carrying case. For stand-alone demo, site evaluation, and reader testing by substitution.

Note 2   Each LR-3000 reader must have one independent, dedicated DC power supply. For permanent installations, AWID recommends Altronix SMP3 or LPS3 if the power cable is up to 300 feet, and Altronix SMP5 or LPS5 if the power cable is between 300 and 500 feet long. Include the required transformer for low voltage AC. Install the power supply 12 feet or *more* (both power-cable length and straight-line distance) from the LR-3000 reader.

Note 3   Sources for mounting hardware (item 6): See www.Tapconet.com or other supplier of parking or traffic control products.

Note 4   Cables in items 7 and 8 may be combined in a single 18 gauge, 5-conductor, overall-shielded cable for each LR-3000 reader.

** Important: All cables, including power, **must** be shielded.*