

Technical Reference

LR-3000 Installation – Material List

The listed products are required in most installations of AWID’s LR-3000 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; weather-protected; 2 LEDs.	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 Rear-View Mirror Tag, VT-UHF Sun Visor Tag, HT-UHF Hangtag, MT-UHF Metal-Mount Tag, ST-UHF Steel Tag; CS-UHF Clamshell Card, and/or GR-UHF Graphics Card. (Include code information in order: bit format, facility or site code, and starting ID number.)	AWID
4.	1 LR-TEK-0-0	LR Reader Tech Kit with LR-Sounder test unit, PS-123.3A power module, WS-UHF tag adhered to a piece of windshield glass, CS-UHF card, cable adapter, instructions, and fitted carton. (LR-TEK is a required first-time order for each installing 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 = 12.0 to 13.8 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 LR-3000 Manual.	(Note 3)
7.	___ _____	Cable for DATA: 22 gauge, 3 conductors, overall <u>shielded</u> , not twisted-pairs, color-coded insulation, plastic jacket. Length = up to 500 feet. For Wiegand or RS-232 data interface between one reader and the controller panel. See Note 4 .	Distributor
8.	___ _____	Cable for POWER: 18 gauge, 2 conductors, overall <u>shielded*</u> , 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 a recommended alternative. It contains also the LR-2000-EVAL reader, and a set of 7 UHF tags and cards (all except ST-UHF). For stand-alone demo, site evaluation, and reader testing by substitution.

Note 2 Each LR-3000 reader must have 1 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.