

## Product Price List- Models AR4000, AR3000, AR1000, AR700, AR600, AR200

### AR4000 Models, AccuRange Scanner, High Speed Interface and Accessories

P/N	Acuity Model	Description
<b>AP4100000</b>	AR4000-LIR	Infrared beam Laser Diode Based Rangefinder with 0-54' range, 0.1" accuracy. RS232 interface, NEMA-4/IP67 case. Includes sensor, 6' cables, manual.
<b>AP4200000</b>	AR4000-LV	Visible beam Laser Diode Based Rangefinder with 0-40' range, 0.3" accuracy. RS232 interface, NEMA-4/IP67 case. Includes sensor, 6' cables, manual.
<b>AP6300000</b>	AR4000-RET	Eye Safe Laser Diode Based Rangefinder with 3-54' range, 0.1" accuracy. For use with reflective tape (included), with RS-232 interface, in NEMA-4/IP67 case. Includes sensor, 6' cables, manual.
<b>ZZZ000012</b>	4000/IRCARD	Infrared detection card for AR4000-LIR. Glows when illuminated by IR laser spot.
<b>AQ4010000</b>	4000/CFO	Close Focus Optics configured for applications with maximum ranges less than 16 feet. Improves sensitivity to specified range. Specify minimum and maximum working distances desired.
<b>AQ4005000</b>	4000/RS422	Differential serial output for communication up to 4000 feet. Replaces standard RS-232 output.
<b>AQ4001000</b>	4000/4-20CL	4-20 mA current loop output for AR4000, installed internally.
<b>AQ4020000</b>	4000/BPF-visible	Optical Filter for outdoor use: Increases AR4000-LV effectiveness in sunlight. Installed internally.
<b>AQ4021000</b>		Optical Filter for outdoor use: Increases AR4000-LIR or RET effectiveness in sunlight. Installed internally.
<b>AP6400000</b>	4000/HPL	High power 20 mW laser output for the AR4000-LIR for increased range and effectiveness in outdoor use or other applications where additional power is required.
<b>AQ4000104</b>		High power 25 mW laser output for the AR4000-LIR for increased range and effectiveness in outdoor use or other applications where additional power is required.
<b>AQ4000002</b>	4000/DISPLAY	Distance display for AR4000. High brightness readout, in case with flange.
<b>AQ4000001</b>	4000/ILCK	Keypad and removable power plug. NEMA-4 case installed on AR4000 power cable. AR4000-LIR end-user certification.
<b>AQ4100002</b>	4000/PS-LIR	Universal AC to DC power supply for all 4000 models. 100-240VAC 50-60Hz in, 5V out. Also includes IR Interlocks. AR4000-LIR end-user certification to local laser usage regulations.
<b>AQ4000016</b>	4000/CSM	Clamp and swivel mounting hardware for AR4000. Clamp to benches, poles, rails; point and lock AR4000 in any orientation.
<b>AQ4003000</b>	4000/HSIF-ISA	High Speed ISA-Bus Interface Card for AR4000 for high speed sampling. Includes interface, manual, demonstration/diagnostic software.
<b>AQ4002000</b>	4000/HSIF-104	High Speed PC-104 Bus Interface Card for AR4000 for high speed sampling. Includes interface, additional memory, motor / encoder controller, manual, demonstration/diagnostic software.

<b>AQ4004000</b>	4000/HSIF-PCI-50	High Speed PCI Bus Interface Card for AR4000 for 50 KHz high speed sampling. Card comes standard with 64KB buffer size and motor power control and encoder reader capability. Includes interface, manual, demonstration/diagnostic software
<b>AQ4006000</b>	4000/HSIF-PCI-200	High Speed PCI Bus Interface Card for AR4000 for 200 KHz high speed sampling. Card comes standard with 64KB buffer size and motor power control and encoder reader capability. Includes interface, manual, demonstration/diagnostic software. Requires separate pulse-width cable from sensor to card
<b>AQ4040000</b>	4000/LS	One-axis scanning mirror with motor and encoder for use with AR4000. 360 degree line scan, up to 50 scans per second.
<b>AQ4040100</b>		Line scanner from above with mirror angle adjustment.
<b>OMR201101</b>	4000/LS-MIRROR	Elliptical mirror used in 4000/LS. $d_1=3.53$ in., $d_2=2.5$ in., 96% reflectance. Includes mirror only with no mounting hardware. Not needed if ordering 4000/LS
<b>AQ4000064</b>	4000/LS-ENCL	NEMA-4/IP67 Enclosure for AR4000 and Line Scanner. $105^\circ$ field of view.
<b>AQ4000008</b>	4000/LFIFO	Additional Memory for High Speed Interface. Increased on-board buffer size for high sample rates and/or reduced demands on host computer. Included on PCI and PC104 cards.
<b>AQ4000004</b>	4000/MECTL	Motor power control and encoder reader capability installed on the High Speed Interface. Included on PCI and PC104 cards.
<b>AQ4000103</b>		7 m cable (total) for both RS232 communication cable and power/data cable
<b>AQ4000107</b>		7m cable extension for use with line scanner and high speed interface card
<b>AQ4000106</b>		Laser cut-off circuit
<b>CBA430201</b>		100 foot (30.5 m) cable for RS422 communication. Includes one male DB9 and one female DB9
<b>SWL400001</b>	CTI/4000-SW	Software library for AR4000 sensors using the serial port interface
<b>SWL400002</b>	CTI/HISF-SW-W	Software library for AR4000 sensors using the PC104 or ISA versions of the High Speed Interface board. Windows platform
<b>SWL400003</b>	CTI/HISF-SW-L	Software library for AR4000 sensors using the PC104 or ISA versions of the High Speed Interface board. Linux platform.
<b>SWL400004</b>		Software library license for AR4000 sensors and scanners using the PCI format HSIF card at 50 KHz, Windows Version ONLY
<b>ZZZ000006</b>	PTU-46-17.5	Pan-Tilt Head for AR4000. With RS-232 interface and AR4000 mounting hardware. Contact Acuity for prices on PTU power supply, C Programmer's Interface, and accessories.
<b>ZZZ000008</b>	PTU-46-70	High torque, high resolution version of the Pan-Tilt Head for AR4000. With RS-232 interface and AR4000 mounting hardware. Contact Acuity for prices on PTU power supply, C Programmer's Interface, and accessories.
<b>ZZZ000009</b>		C-programmer's interface for PTU
<b>ZZZ000003</b>	PT-EIO-JOY	Analog Joystick for use with EIO option
<b>ZZZ000004</b>		AC power supply for pan tilt unit
	Other Options	Other PTU options include power supplies, cabling, C Language programmer's interface, weather resistance and nodal adaptors
<b>MTP210201</b>		3M RETRO-REFLECTIVE TAPE - 2" WIDE, SEALED, per foot
<b>MTP210202</b>		3M RETRO-REFLECTIVE TAPE - 2" WIDE, Open, per foot



**AR1000 and AR3000 Sensors:**

P/N	Acuity Model	Description	
AP1000232	AR1000 RS232	AR1000 laser distance sensor with RS232 output	
AP1000422	AR1000 RS422	AR1000 laser distance sensor with RS422 output	
AP3000232	AR3000 RS232, std	AR3000 distance measurement sensor with RS232, 2mrad laser	
AP3000422	AR3000 RS422, std	AR3000 distance measurement sensor with RS422, 2mrad laser	
AP3100232	AR3000 RS232, 10mrad	AR3000 distance measurement sensor with RS232, 10 mrad laser	
AP3100422	AR3000 RS422, 10mrad	AR3000 distance measurement sensor with RS422, 10 mrad laser	
CBA100201	Cable: AR1000	CABLE ASSEMBLY: AR1000 2m	
CBA300201	Cable: AR3000	CABLE ASSEMBLY: AR3000 2m	
AP9001000	Touch Terminal Display	Touch Terminal Display - Controller and alphanumeric display for Acuity laser sensors. Includes TFT touch display, manual, 1 year warranty.	

## AR700 Sensor:

P/N	Acuity Model	Description
AP7010001	AR700-0125	AR700-0125, 3.175 mm span, 1 mW visible diode, 83 mm case, 2m cable
AP7010002	AR700-0250	AR700-0250, 6.35 mm span, 1 mW visible diode, 83 mm case, 2m cable
AP7010005	AR700-0500	AR700-0500, 12.7 mm span, 1 mW visible diode, 83 mm case, 2m cable
AP7010010	AR700-1	AR700-1, 25.4 mm span, 1 mW visible diode, 83 mm case, 2m cable
AP7010020	AR700-2	AR700-2, 50.8 mm span, 1 mW visible diode, 83 mm case, 2m cable
AP7010040	AR700-4 1mW	AR700-4, 101.6 mm span, 1 mW visible diode, 83 mm case, 2m cable
AP7020040	AR700-4 5mW	AR700-4, 101.6 mm span, 5 mW visible diode, 83 mm case, 2m cable
AP7220060	AR700-6	AR700-6, 152.4 mm span, 5 mW visible diode, 132 mm case, 2m cable
AP7234060	AR700-6 RP	AR700-6RP, road profiling option, 152.4mm span, 20mW visible diode, Bandpass filter, 132 mm case, 2m cable
AP7220080	AR700-8 5mW	AR700-8, 203.2mm span, 5 mW visible diode, 132 mm case, 2m cable
AP7230080	AR700-8 20mW	AR700-8, 203.2mm span, 20 mW visible diode, 132 mm case, 2m cable
AP7234080	AR700-8 RP	AR700-8RP, road profiling option, 203.2mm span, 20mW visible diode, Bandpass filter, 132 mm case, 2m cable
AP7420120	AR700-12 5mW	AR700-12, 304.8 mm span, 5 mW visible diode, 257 mm case, 2m cable
AP7430120	AR700-12 20mW	AR700-12, 304.8mm span, 20 mW visible diode, 257 mm case, 2m cable
AP7220120	AR700-12C 5mW	AR700-12, 304.8mm span, 5 mW visible diode, 132 mm case
AP7230120	AR700-12C 20mW	AR700-12, 304.8 mm span, 20 mW visible diode, 132 mm case
AP7434120	AR700-12 RP	AR700-12RP, road profiling option, 304.8 mm span, 20mW visible diode, Bandpass filter, 132 mm case, 2m cable
AP7420160	AR700-16 5mW	AR700-16, 406.4 mm span, 5 mW visible diode, 257 mm case, 2m cable
AP7430160	AR700-16 20mW	AR700-16, 406.4mm span, 20 mW visible diode, 257 mm case, 2m cable
AP7620240	AR700-24 5mW	AR700-24, 609.6 mm span, 5 mW visible diode, 485 mm case, 2m cable
AP7630240	AR700-24 20mW	AR700-24, 609.6mm span, 20 mW visible diode, 485 mm case, 2m cable
AP7620320	AR700-32 5mW	AR700-32, 812.8 mm span, 5 mW visible diode, 485 mm case, 2m cable
AP7630320	AR700-32 20mW	AR700-32, 812.8 mm span, 20 mW laser diode, 485 mm case, 2m cable
AP7620500	AR700-50 5mW	AR700-50, 1.27 m span, 5 mW laser diode, 485 mm case, 2m cable
AP7630500	AR700-50 5mW	AR700-50, 1.27 m span, 20 mW laser diode, 485 mm case, 2m cable



<b>AR700 Options and Accessories:</b>		
<b>AQ7000002</b>		Connectivity Kit for AR700 - EU, 240V
<b>AQ7000001</b>		Connectivity Kit for AR700
<b>AQ7000011</b>		Keypress Connectivity kit for use with AR700 with Class 3B lasers. 100-240VAC-US Plug
<b>AQ7000012</b>		Keypress Connectivity kit for use with AR700 with Class 3B lasers. 100-240VAC - EU Plug
<b>AQ7230001</b>		Bandpass filter matched to sensors with 20 mW Visible diodes
<b>AQ7200070</b>		7m cable replaces the 2m cable
<b>AQ9001000</b>	Touch Panel Display	Touch Panel Display - Controller and alphanumeric display for Acuity laser sensors. Includes TFT touch display, cable, manual, 1 year warranty
<b>CBA901001</b>	TPD Cable	Connects TPD to Connectivity Kit

### AR600 Sensor: Model + Base – Two P/N’s specify an AR-600 sensor:

Eleven models of visible beam triangulation sensors with different measurement ranges and accuracies. RS-232 interface, NEMA-4/IP67 case. Includes sensor, 6’ cables, manual

Model (distance):			
P/N	Acuity Model	Details Range, Accuracy, Length	Default Std Base
AP6000125	AR600-0125	R= 0.5" to 0.625" A= 0.00015", L= 5.9"	AQ6100001
AP6000250	AR600-0250	R= 0.6" to 0.85" A= 0.0003", L= 5.9"	AQ6100001
AP6000500	AR600-0500	R= 0.9" to 1.4" A= 0.0005", L= 5.9"	AQ6100001
AP6001000	AR600-1	R= 2.5" to 3.5" A= 0.001", L= 5.9"	AQ6100001
AP6002000	AR600-2	R= 2.25" to 4.25" A= 0.002", L= 5.9"	AQ6100001
AP6004000	AR600-4	R= 3.5" to 7.5" A= 0.004", L= 5.9"	AQ6100001
AP6006000	AR600-6	R= 7" to 13" A= 0.006", L= 7.4"	AQ6100001
AP6008000	AR600-8	R= 13" to 21" A= 0.008", L= 12.9"	AQ6100005
AP6016000	AR600-16	R= 11.5" to 27.5" A= 0.016", L= 12.9"	AQ6100005
AP6020000	AR600-20XL	R= 38" to 58" A= 0.02", L= 24.9"	AQ6100005
AP6032000	AR600-32	R= 26" to 58" A= 0.032", L= 24.9"	AQ6100005
AP6050000	AR600-50	R= 30" to 80" A= 0.05", L= 24.9"	AQ6100005

Base (Laser type):		
P/N	Description	Class
AQ6100001	600 Base: 1mw - <b>standard for models -0125 to -6</b>	2
AQ6100005	600 Base: 5mw - <b>standard for models -8 to -50</b>	3A
AQ6201000	600/5mW LASER UPGRADE OPTION from 1mW	3A
AQ6100020	600 Base: 20mw-IR - For high sample rates on dark or shiny targets at long distance or use on radiating surfaces.	3B*
AQ6100021	600 Base: 20mw-VIS - For high sample rates on dark or shiny targets at long distance or use on radiating surfaces.	3B*

Road Profiling (RP) packages for AR600-1, -2, -4, -6, or -8.  
 Includes optics and signal processing firmware optimized for use in high-speed road surface profiling.

AQ6203020	600 Base: RP 20mw-IR w/ 4-20mA	3B*
AQ6203021	600 Base: RP 20mw-VIS w/ 4-20mA	3B*
AQ6203005	600 Base: RP 5mw-VIS w/ 4-20mA	3A

\*All above class 3B sensors are supplied as OEM ONLY product, with the OEM responsible for appropriate safety interlocks upon integration. The following Sensors can be supplied with required safety interlocks for end users.

AQ6100120	600 Base: 20mw-IR w/interlock	3B*
AQ6203120	600 Base: RP 20mw-IR w/ 4-20mA w/ interlock	3B*

**AR600 Options and Accessories:**

P/N	Acuity Model	Description
AQ6200010	600/PS	Universal AC to DC power supply for AR600. 100-240VAC 50-60Hz in, 15V out.
AQ6202000		LASER INTERLOCK OPTION
AQ6200200	600/4-20CL	AR600 4-20mA Current Loop output, installed internally
AQ6210000	600/BPF	Optical Filter for brightly lit or glowing targets, installed internally. For <b>5mW VISIBLE</b> laser
AQ6210020		Optical Filter for brightly lit or glowing targets, installed internally. For <b>1mW or 20mW VISIBLE</b> laser
AQ6230000		Optical Filter for brightly lit or glowing targets, installed internally. For <b>INFRARED</b> laser
AQ6200100	600/RS422	Differential serial output for communication up to 4000 feet. Replaces standard RS232 output.
DSP443701	600/DISPLAY	Distance display for AR600. High brightness readout, in case with flange.
SWL600001	CTI/600-SW	Software Library for AR600 sensors using the serial port interface. Single sensor license. Includes a demo program for parts thickness (requires 2 AR600 sensors)
AQ6200050		7 m Cables (replaces existing 2m)
AQ6200030		3 m cables (replaces existing 2 m)
AQ6200025		64 mm (2.5 in.) cable (replaces existing 2m)
AQ6200040		AMES CUSTOM SERIAL OVER POWER/SIG

**AR200 Sensor:**

P/N	Acuity Model	Details Range, Accuracy, Length
AP2000600	AR200-6M	R= 18 – 24mm A= +/- 0.012 mm, L= 69.8mm
AP2001200	AR200-12M	R= 14 – 26mm A= +/- 0.024 mm, L= 69.8mm
AP2002500	AR200-25M	R= 21.5 – 46.5mm A= +/- 0.05 mm, L= 69.8mm
AP2005000	AR200-50M	R= 17 – 67mm A= +/- 0.10 mm, L= 69.8mm

**AR200 Options and Accessories:**

P/N	Acuity Model	Description
AQ2000001		AR200 Power/ Interface Kit, 110V U.S. - Power and Serial Data, AC to DC power supply for AR200. (120V, 60 Hz to 15V at 600 mA) D-sub 9-pin connector to the end of the cable for simple connection to a PC's serial port
AQ2000002		AR200 Power/ Interface Kit, 220V Europe - Power and Serial Data, AC to DC power supply for AR200. (220V, 50 Hz to 15V at 600 mA) D-sub 9-pin connector to the end of the cable for simple connection to a PC's serial port
DSP443701	200/Display	Distance display for AR200. High brightness readout, in case with flange.
SWL200001	200/SW	Software library - Functions help programmers write application software for the AR200 using serial output. Includes a single sensor license for functions in C, C++, VBA and Microsoft® Excel macros.
AQ9001000	Touch Terminal Display	Touch Terminal Display - Controller and alphanumeric display for Acuity laser sensors. Includes TFT touch display, manual, 1 year warranty