

U.S. Census Bureau
Electromedical Equipment and Analytical Instruments - 2009
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Address inquiries concerning these data to Investment Goods Industries Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Molly Reckson, 301-763-8328.

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Table 1. Value of Shipments of Electromedical Equipment and Analytical Instruments: 2009 to 2005
 [Millions of dollars]

Product class code	Product description	Year	Value
3333143	Optical instruments and lenses	2009	2,249.0
		2008	r/ 2,540.2
		2007	a/ 2,097.6
		2006	2,012.5
		2005	1,960.8
3345101	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment)	2009	19,925.2
		2008	r/ 21,254.0
		2007	a/ 18,270.7
		2006	19,610.5
		2005	18,240.5
3345160	Analytical and scientific instruments, except optical	2009	a/ 10,528.2
		2008	r/ 11,082.5
		2007	9,225.1
		2006	8,393.6
		2005	8,086.5
3345170	Irradiation (ionizing radiation) equipment	2009	5,727.2
		2008	a/ 6,722.2
		2007	6,370.7
		2006	7,065.2
		2005	6,454.1

Table 2. Value of Shipments of Electromedical Equipment and Analytical Instruments: 2009 and 2008
 [Value in thousands of dollars]

Product code	Product description	Year	No. of cos.		Value
3333143	Optical instruments and lenses	2009	(X)		2,249,033
		2008		r/	2,540,205
3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	2009	23		552,516
		2008		r/	668,051
3333143231	Optical test and inspection equipment	2009	32		152,036
		2008		a/	179,991
3333143232	Optical instruments used for inspecting semiconductors, wafers, and photo masks	2009	7	a/	100,149
		2008			160,531
3333143235	Filters	2009	29	c/	153,100
		2008			184,506
3333143237	Unmounted lenses	2009	39		480,511
		2008			497,981
3333143242	Mounted lenses	2009	16	b/	41,052
		2008		a/	48,829
3333143243	Other optical components	2009	48	a/	321,567
		2008		a/	275,628
3333143245	Other optical instruments	2009	43		406,700
		2008		r/	480,143
3333143251	Parts and accessories	2009	31	a/	41,402
		2008		a/	44,545
3345101	Electromedical equipment, including diagnostic, therapeutic and patient monitoring equipment (excluding ionizing radiation equipment) Medical diagnostic equipment:	2009	(X)		19,925,203
		2008		r/	21,254,018
3345101106	Ultrasound scanning devices	2009	11		1,532,596

		2008		r/	2,060,854
3345101109	Electrocardiograph (EKG)	2009	11		(D)
		2008		a/	313,456
3345101124	All other medical diagnostic equipment	2009	41		1,928,841
	Patient monitoring equipment:	2008		r/	2,242,848
3345101227	Intensive care/coronary care units, including component modules such as temperature, blood pressure, and pulse	2009	12		720,094
		2008		c/r/	717,964
3345101233	Prenatal and respiratory monitoring	2009	7		(D)
		2008			(D)
3345101237	All other patient monitoring equipment	2009	20		2,246,333
		2008			2,740,653
3345101241	Ultrasound therapy	2009	3		(D)
		2008			(D)
3345101247	Defibrillators	2009	7		2,591,500
		2008		r/	2,796,359
3345101251	Dialyzers, includes machines and equipment	2009	5		(D)
		2008		c/	841,731
3345101254	Medical laser equipment	2009	10	c/	379,186
		2008			410,426
3345101257	All other medical therapy equipment	2009	28		4,106,786
	Surgical systems:	2008			4,269,826
3345101361	Electrosurgical equipment	2009	14		609,584
		2008			562,044
3345101372	All other surgical support systems	2009	16		1,060,749
		2008			1,019,146
3345101374	Other electromedical and electrotherapeutic apparatus	2009	13		1,409,594
		2008		a/	1,312,009
3345101477	Electromedical and electrotherapeutic parts	2009	32		2,077,917

	and accessories	2008			1,885,323
3345160	Analytical and scientific instruments, except optical	2009	(X)	a/	10,528,210
		2008		r/	11,082,461
3345160111	Electrochemical instruments	2009	26		(S)
		2008		c/r/	558,399
3345160112	Chromatographic instruments	2009	29	a/	1,062,019
		2008			1,190,711
3345160134	Spectrophotometric instruments	2009	46	c/	888,771
		2008		b/r/	920,274
3345160135	Thermal analysis instruments	2009	12	a/	481,338
		2008		r/	570,037
3345160145	Mass spectroscopy instruments	2009	14	a/	686,885
	Laboratory instrumentation, includes instruments used in clinical laboratory for measuring, analyzing and processing clinical specimens:	2008		r/	757,727
3345160147	Chemistry-measure and identify substances, e.g., metabolites, enzymes and drugs	2009	19		1,208,548
		2008		a/r/	1,146,879
3345160149	Hematology-measure and identify substances or cells contained in blood or substances influencing the development and clotting of blood, e.g., blood cell counting coagulation factors	2009	12	a/	751,452
		2008			700,735
3345160155	Blood bank and immunology-process blood and specimens for testing; measure and identify, using immunoassay, substances in clinical specimens	2009	6		232,834
		2008			212,512
3345160157	Other clinical laboratory instrumentation (including Microbiology Instrumentation)	2009	17		833,533
		2008		r/	775,810
3345160162	Organic elemental analysis instruments (Carbon, Hydrogen, Nitrogen, Oxygen, Sulphur)	2009	10	a/	99,493
		2008		a/	126,080
3345160163	Gas detectors	2009	18	a/	110,257
		2008		b/	156,299

3345160165	Other analytical and scientific instruments	2009	94	c/	2,372,624
		2008		r/	2,557,941
3345160167	Parts-Components and accessories for analytical and scientific instruments, sold separately	2009	85	a/	1,448,998
		2008		a/	1,409,057
3345170	Irradiation (ionizing radiation) equipment	2009	(X)		5,727,216
	Medical diagnostic equipment:	2008		a/	6,722,222
	Medical X-ray equipment:				
3345170103	Digital radiography equipment	2009	6		(D)
		2008			(D)
3345170106	Computerized axial tomography (CT or CAT scan)	2009	6		1,184,160
		2008			1,442,260
3345170112	All other medical diagnostic X-ray equipment, including dental and conventional	2009	19		1,019,512
		2008		c/r/	1,061,047
3345170115	Nuclear medicine equipment	2009	10		964,169
	Other irradiation apparatus:	2008			1,123,944
3345170121	Industrial and scientific X-ray equipment	2009	11		(S)
		2008			(S)
3345170124	X-ray tubes, sold separately	2009	7		(D)
		2008			(D)
3345170332	Other irradiation equipment, including parts and accessories for X-ray equipment	2009	28	b/	1,323,099
		2008		a/	1,620,532

Table 3. Value of Shipments, Exports, and Imports of Electromedical Equipment and Analytical Instruments: 2009 and 2008
[Value in thousands of dollars]

Product code 1/	Product description	Year	Manufacturers' shipments quantity	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise (value at port) 2/	Imports for consumption 3/4/
3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	2009	(N/A)	552,516	187,100	207,752
		2008	(N/A) r/	668,051	161,480	273,326
33331432XT	Optical instruments and lenses	2009	(N/A)	1,696,517	1,157,701	556,992
		2008	(N/A) r/	1,872,154	1,606,453	582,290
3345101106	Ultrasound scanning devices, medical diagnostic	2009	(N/A)	1,532,596	771,844	197,452
		2008	(N/A) r/	2,060,854	820,133	242,168
3345101109	Electrocardiograph (EKG), medical diagnostic	2009	(N/A)	(D)	(NA)	12,937
		2008	(N/A) a/	313,456	(NA)	24,610
3345101124	All other medical diagnostic equipment	2009	(N/A)	1,928,841	1,682,408	1,287,571
		2008	(N/A) r/	2,242,848	1,794,818	1,390,798
33451012XT	Therapeutic electromedical equipment	2009	(N/A)	7,077,472	939,629	1,203,724
		2008	(N/A) r/	7,476,611	856,134	1,019,591
33451012YT	Patient monitoring equipment	2009	(N/A)	(D)	691,330	270,705
		2008	(N/A)	(D)	441,932	374,988
3345101241	Ultrasound therapy equipment	2009	(N/A)	(D)	38,125	1,797
		2008	(N/A)	(D)	35,128	3,547
3345101251	Dialyzers, including machines and equipment	2009	(N/A)	(D)	68,498	19,470
		2008	(N/A) c/	841,731	85,963	26,688
3345101361	Electrosurgical equipment	2009	(N/A)	609,584	1,759,274	567,415
		2008	(N/A)	562,044	1,774,448	771,596
334510137T	Surgical systems equipment	2009	(N/A)	2,470,343	734,559	565,433
		2008	(N/A)	2,331,155	728,005	523,199
3345101477	Electromedical and electrotherapeutic parts and accessories	2009	(N/A)	2,077,917	1,158,643	1,726,709
		2008	(N/A)	1,885,323	1,168,051	1,809,255
3345160000	Analytical and scientific instruments, except optical	2009	(N/A) a/	10,528,210	3,396,536	2,177,831
		2008	(N/A) r/	11,082,461	3,554,542	2,499,363
3345170106	Computerized axial tomography (CT or CAT scan)	2009	(N/A)	1,184,160	623,776	430,431
		2008	(N/A)	1,442,260	617,624	465,321
33451701XT	Digital radiography, nuclear medicine, and other medical diagnostic X-ray equipment and other irradiation equipment, including parts and accessories for X-ray equipment	2009	(N/A)	(D)	1,640,134	2,081,983
		2008	(N/A)	(D)	1,750,804	2,597,825
3345170121	Industrial and scientific X-ray equipment	2009	(N/A)	(S)	370,968	181,139
		2008	(N/A)	(S)	428,060	214,616
3345170124	X-ray tubes, sold separately	2009	(N/A)	(D)	436,429	287,788
		2008	(N/A)	(D)	364,202	315,405

Footnotes:

1/ For comparison of the North American Industry Classification System (NAICS) - based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

2/ Source: Census Bureau report, EM545, U.S. Exports.

3/ Source: Census Bureau report, IM145, U.S. Imports for Consumption.

4/ Value represents the C.I.F. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 4. Comparison of combined North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2009

Combined code	Product code	Product description	Export code 1/	Import code 2/
3333143119	3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	9005.10.0040	9005.10.0020
			9005.10.0080	9005.10.0040
			9005.80.4020	9005.10.0080
			9005.80.4040	9005.80.4020
			9005.80.6000	9005.80.4040
			9005.90.0000	9005.80.6000
				9005.90.4000 9005.90.8000
33331432XT	3333143231	Optical instruments and lenses	9011.10.0000	9011.10.4000
	3333143232		9011.20.0000	9011.10.8000
	3333143235		9011.80.0000	9011.20.4000
	3333143237		9011.90.0000	9011.20.8000
	3333143242		9031.41.0000	9011.80.0000
	3333143243		9031.90.0000	9011.90.0000
	3333143245			9031.41.0020
	3333143251			9031.41.0040 9031.41.0060 9031.90.4500 9031.90.5400 9031.90.5800
3345101106	3345101106	Ultrasound scanning devices, medical diagnostic	9018.12.0000	9018.12.0000
3345101109	3345101109	Electrocardiograph (EKG), medical diagnostic		9018.11.3000
3345101124	3345101124	All other medical diagnostic equipment	9018.13.0000	9018.13.0000
			9018.19.4000	9018.19.4000
			9018.19.9530	9018.19.9530
			9018.19.9535	9018.19.9535
			9018.19.9550	9018.19.9550
33451012XT	3345101247	Therapeutic electromedical equipment	9018.90.7060	9018.20.0040
	3345101254		9021.50.0000	9018.90.6400
	3345101257			9018.90.7560 9021.50.0000
33451012YT	3345101227	Patient monitoring equipment		9018.19.5500
	3345101233			
	3345101237			
3345101241	3345101241	Ultrasound therapy equipment	9018.90.7040	9018.90.7540
3345101251	3345101251	Dialyzers, including machines and equipment	9018.90.7020	9018.90.7520
3345101361	3345101361	Electrosurgical equipment	9018.90.6000	9018.90.6000

334510137T	3345101372 3345101374	Surgical systems equipment	9018.20.0000 9018.90.7080	9018.20.0080 9018.90.7580
3345101477	3345101477	Electromedical and electrotherapeutic parts and accessories	9018.19.7500 9018.19.9560 9018.90.7070	9018.11.9000 9018.19.7500 9018.19.9560 9018.90.7570
3345160000	3345160111 3345160112 3345160134 3345160135 3345160145 3345160147 3345160149 3345160155 3345160157 3345160162 3345160163 3345160165 3345160167	Analytical and scientific instruments, except optical	9012.10.0000 9027.20.2000 9027.20.5030 9027.20.6050 9027.20.9000 9027.30.4040 9027.30.4080 9027.50.2000 9027.50.5000 9027.80.2600 9027.80.3100 9027.80.3200 9027.80.3500 9027.80.8000	9012.10.0000 9027.20.5030 9027.20.5050 9027.20.5060 9027.20.5080 9027.20.8030 9027.20.8060 9027.20.8090 9027.30.4040 9027.30.4080 9027.50.4015 9027.50.4020 9027.80.4520 9027.80.4530 9027.80.4560 9027.80.4590 9027.80.8030 9027.80.8060 9027.80.8090 9027.90.8400 9027.90.8800
3345170106	3345170106	Computerized axial tomography (CT or CAT scan)	9022.12.0000	9022.12.0000
33451701XT	3345170103 3345170112 3345170115 3345170332	Digital radiography, nuclear medicine, and other medical diagnostic X-ray equipment and other irradiation equipment, including parts and accessories for X-ray equipment	9022.13.0000 9022.14.0000 9022.21.0000 9022.29.8000 9022.90.4000 9022.90.6000 9022.90.8000	9022.13.0000 9022.14.0000 9022.21.0000 9022.29.8000 9022.90.4000 9022.90.6000 9022.90.9500
3345170121	3345170121	Industrial and scientific X-ray equipment	9022.19.0000	9022.19.0000
3345170124	3345170124	X-ray tubes, sold separately	9022.30.0000	9022.30.0000

Footnotes:

1/Source: 2008 Edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2008).

Symbols:

- (D) - Withheld to avoid disclosing data of individual companies.
- (X) - Not applicable.
- (NA) - Not available.
- r/ - Revised by 5 percent or more from previously published data.
- (n.e.c.) - Not elsewhere classified.
- (n.s.k.) - Not specified by kind.
- (nehp) - Net engine horsepower.
- (btuh) - British thermal units per hour.
- (pt.) Part.
- Represents zero.

Estimation symbols - Percent of estimation for each item is indicated as follows:

- a/ - 10 to 19 percent of this item has been estimated.
- b/ - 20 to 29 percent of this item has been estimated.
- c/ - 30 to 49 percent of this item has been estimated.
- (S) - 50 percent and over of this item is estimated.

HISTORICAL NOTE

The Census Bureau has collected data on selected electronic and associated products since 1961 on survey MA36N, Selected Electronics and Associated Products. In 1985, survey MA36N was divided into three annual surveys which are presently collected as: MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment; MA334Q, Semiconductors, Electronic Components, and Semiconductor Manufacturing Equipment; and MA334A, Electromedical Equipment and Analytical Instruments.

The Census Bureau has collected data on selected instruments and related products since 1961 on survey MA334B. Beginning in 2005, MA334S, Electromedical and Irradiation Equipment, and a portion of data for MA334B, Selected Instruments and Related Products, was published under a new survey titled MA334A, Electromedical Equipment and Analytical Instruments. Additional data for MA334B can be found on surveys MA334C, Control Instruments, MA334D, Defense, Navigational and Aerospace Electronics, and MA334T, Meters and Test Devices.

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