

U.S. Census Bureau
Electromedical Equipment and Analytical Instruments - 2008
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further information, visit <http://www.stat-usa.gov/> or call 1-800-STAT-USA.

Table 1. Value of Shipments of Electromedical Equipment and Analytical Instruments: 2008 to 2004
 [Millions of dollars]

Product class code	Product description	Year		Value
3333143	Optical instruments and lenses	2008	a/	2,118.7
		2007	a/	2,097.6
		2006		2,012.5
		2005		1,960.8
		2004		1,871.2
3345101	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment)	2008	a/	18,845.2
		2007	a/r/	18,270.7
		2006		19,610.5
		2005		18,240.5
		2004		13,611.1
3345160	Analytical and scientific instruments, except optical	2008		9,440.6
		2007		9,225.1
		2006		8,393.6
		2005		8,086.5
		2004		7,544.6
3345170	Irradiation (ionizing radiation) equipment	2008	a/	6,800.9
		2007	r/	6,370.7
		2006		7,065.2
		2005		6,454.1
		2004		4,971.2

Table 2. Value of Shipments of Electromedical Equipment and Analytical Instruments: 2008 and 2007
 [Value in thousands of dollars]

Product code	Product description	No. of		Value	
		Year	cos.		
3333143	Optical instruments and lenses	2008	(X)	a/	2,118,742
		2007		a/	2,097,622
3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	2008	20	c/	99,679
		2007		b/r/	85,356
3333143231	Optical test and inspection equipment	2008	33	a/	181,289
		2007		a/	189,555
3333143232	Optical instruments used for inspecting semiconductors, wafers, and photo masks	2008	7		160,531
		2007		r/	234,248
3333143235	Filters	2008	27	a/	188,423
		2007		a/r/	172,024
3333143237	Unmounted lenses	2008	40		499,956
		2007		r/	457,162
3333143242	Mounted lenses	2008	18	b/	49,552
		2007		a/r/	55,775
3333143243	Other optical components	2008	50	a/	276,001
		2007		a/r/	251,407
3333143245	Other optical instruments	2008	43	b/	519,174
		2007		b/r/	509,337
3333143251	Parts and accessories	2008	26		(S)
		2007			(S)
3345101	Electromedical equipment, including diagnostic, therapeutic and patient monitoring equipment (excluding ionizing radiation equipment)	2008	(X)	a/	18,845,167
		2007		a/r/	18,270,667
3345101106	Ultrasound scanning devices	2008	12		1,520,310
		2007		r/	1,670,899
3345101109	Electrocardiograph (EKG)	2008	10		(S)
		2007			185,836
3345101124	All other medical diagnostic equipment	2008	38		1,636,682
		2007			1,581,614
3345101227	Intensive care/coronary care units, including component modules such as temperature, blood pressure, and pulse	2008	12	a/	330,082
		2007		a/	352,407
3345101233	Prenatal and respiratory monitoring	2008	9		(S)
		2007		c/r/	74,955

3345101237	All other patient monitoring equipment	2008	19	b/	2,679,996
		2007		r/	2,888,503
3345101241	Ultrasound therapy	2008	5		26,039
		2007			29,298
3345101247	Defibrillators	2008	6		2,222,750
		2007		r/	1,803,644
3345101251	Dialyzers, includes machines and equipment	2008	4		841,731
		2007			1,065,910
3345101254	Medical laser equipment	2008	11		(S)
		2007			(S)
3345101257	All other medical therapy equipment	2008	27		4,108,357
		2007			3,305,486
3345101361	Electrosurgical equipment	2008	14		(S)
		2007			(S)
3345101372	All other surgical support systems	2008	18		1,018,626
		2007		r/	857,130
3345101374	Other electromedical and electrotherapeutic apparatus	2008	10		(S)
		2007			(S)
3345101477	Electromedical and electrotherapeutic parts and accessories	2008	32	b/	1,813,819
		2007		a/r/	1,853,072
3345160	Analytical and scientific instruments, except optical	2008	(X)		9,440,626
		2007			9,225,068
3345160111	Electrochemical instruments	2008	26	b/	441,767
		2007		a/	734,047
3345160112	Chromatographic instruments	2008	29		1,207,174
		2007		r/	1,279,319
3345160134	Spectrophotometric instruments	2008	48	b/	990,268
		2007		r/	857,229
3345160135	Thermal analysis instruments	2008	10		491,357
		2007		r/	471,291
3345160145	Mass spectroscopy instruments Laboratory instrumentation, includes instruments used in clinical laboratory for measuring, analyzing and processing clinical specimens:	2008	14	b/	872,516
		2007			600,807
3345160147	Chemistry-measure and identify substances, e.g., metabolites, enzymes and drugs	2008	15		1,070,972
		2007			957,660
3345160149	Hematology-measure and identify substances or cells contained in blood or substances influencing the development and clotting of	2008	11	a/	692,371
		2007		r/	614,578

blood, e.g., blood cell counting coagulation factors

3345160155	Blood bank and immunology-process blood and specimens for testing; measure and identify, using immunoassay, substances in clinical specimens	2008 2007	5		212,512 234,616
3345160157	Other clinical laboratory instrumentation (including Microbiology Instrumentation)	2008 2007	13		350,403 (D)
3345160162	Organic elemental analysis instruments (Carbon, Hydrogen, Nitrogen, Oxygen, Sulphur)	2008 2007	10	b/ r/	129,271 125,827
3345160163	Gas detectors	2008 2007	20	b/	157,499 (D)
3345160165	Other analytical and scientific instruments	2008 2007	97	a/ r/	1,447,021 1,545,476
3345160167	Parts-Components and accessories for analytical and scientific instruments, sold separately	2008 2007	89	b/ a/r/	1,377,495 1,336,210
3345170	Irradiation (ionizing radiation) equipment	2008 2007	(X)	a/ r/	6,800,942 6,370,715
3345170103	Digital radiography equipment	2008 2007	8		(D) 633,772
3345170106	Computerized axial tomography (CT or CAT scan)	2008 2007	5		1,442,260 1,554,846
3345170112	All other medical diagnostic X-ray equipment, including dental and conventional	2008 2007	22	c/ r/	1,250,522 1,018,160
3345170115	Nuclear medicine equipment	2008 2007	11	b/	1,101,513 1,052,750
3345170121	Industrial and scientific X-ray equipment	2008 2007	12	c/	394,024 530,759
3345170124	X-ray tubes, sold separately	2008 2007	8		(D) 323,417
3345170332	Other irradiation equipment, including parts and accessories for X-ray equipment	2008 2007	29	a/ r/	1,576,812 1,257,011

Table 3. Value of Shipments, Exports, and Imports of Electromedical Equipment and Analytical Instruments: 2008 and 2007
 [Value in thousands of dollars]

Product code 1/	Product description	Year		Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise 2/ (value at port)	Imports for consumption 3/4/
3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	2008	c/	99,679	161,480	273,326
		2007	b/t/	85,356	135,349	277,022
33331432XT	Optical instruments and lenses	2008	a/	2,019,063	1,606,453	582,290
		2007	a/t/	2,012,266	2,452,938	619,492
3345101106	Ultrasound scanning devices, medical diagnostic	2008		1,520,310	820,133	242,168
		2007	t/	1,670,899	738,454	258,312
3345101109	Electrocardiograph (EKG), medical diagnostic	2008		(S)	(NA)	24,610
		2007		185,836	56,974	22,045
3345101124	All other medical diagnostic equipment	2008		1,636,682	1,794,818	1,390,798
		2007		1,581,614	1,591,527	1,387,289
33451012XT	Therapeutic electromedical equipment	2008	a/	6,907,445	856,134	1,019,591
		2007	t/	5,821,646	839,032	896,332
33451012YT	Patient monitoring equipment	2008	b/	3,104,178	441,932	374,988
		2007	t/	3,315,865	341,854	347,028
3345101241	Ultrasound therapy equipment	2008		26,039	35,128	3,547
		2007		29,298	21,062	3,393
3345101251	Dialyzers, including machines and equipment	2008		841,731	85,963	26,688
		2007		1,065,910	73,237	32,232
3345101361	Electrosurgical equipment	2008		(S)	1,774,448	771,596
		2007		(S)	1,467,538	415,762
334510137T	Surgical systems equipment	2008	c/	2,093,613	728,005	523,199
		2007	c/t/	2,083,693	727,150	660,240
3345101477	Electromedical and electrotherapeutic parts and accessories	2008	b/	1,813,819	1,168,051	1,809,255
		2007	a/t/	1,853,072	1,187,745	1,664,905
3345160	Analytical and scientific instruments, except optical	2008		9,440,626	3,554,542	2,499,363
		2007		9,225,068	3,322,429	2,333,328
3345170106	Computerized axial tomography (CT or CAT scan)	2008		1,442,260	617,624	465,321
		2007	t/	1,554,846	556,154	589,148
33451701XT	Digital radiography, nuclear medicine, and other medical diagnostic X-ray equipment and other irradiation equipment, including parts and accessories for X-ray equipment	2008		(D)	1,750,804	2,597,825
		2007	t/	3,961,693	1,694,321	2,388,294
3345170121	Industrial and scientific X-ray equipment	2008	c/	394,024	428,060	214,616
		2007		530,759	386,714	158,807
3345170124	X-ray tubes, sold separately	2008		(D)	364,202	315,405
		2007		323,417	316,836	303,236

Footnotes:

1/ For comparison of the North American Industry Classification System codes with Schedule B export numbers and HTSUSA import numbers, 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.l.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: 2008

Combined code	Product code	Product description	Export code 1/	Import code 2/
3333143119	3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	9005.10.0020	9005.10.0020
			9005.10.0040	9005.10.0040
			9005.10.0080	9005.10.0080
			9005.80.4020	9005.80.4020
			9005.80.4040	9005.80.4040
			9005.80.6000	9005.80.6000
			9005.90.0000	9005.90.4000 9005.90.8000
33331432XT	3333143231 3333143232 3333143235 3333143237 3333143242 3333143243 3333143245 3333143251	Optical instruments and lenses	9011.10.0000	9011.10.4000
			9011.20.0000	9011.10.8000
			9011.80.0000	9011.20.4000
			9011.90.0000	9011.20.8000
			9031.41.0000	9011.80.0000
			9031.90.0000	9011.90.0000
				9031.41.0020 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	9018.11.0040	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 3345101254 3345101257	Therapeutic electromedical equipment	9018.90.7060	9018.20.0040
			9021.50.0000	9018.90.6400 9018.90.7560 9021.50.0000
33451012YT	3345101227 3345101233 3345101237	Patient monitoring equipment	9018.19.5500	9018.19.5500
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	9018.20.0080
			9018.90.7080	9018.90.7580

3345101477	3345101477	Electromedical and electrotherapeutic parts and accessories	9018.11.0080 9018.19.7500 9018.19.9560 9018.90.7070	9018.11.9000 9018.19.7500 9018.19.9560 9018.90.7570
3345160	3345160111	Analytical and scientific instruments, except optical	9012.10.0000	9012.10.0000
	3345160112		9027.20.2000	9027.20.5030
	3345160134		9027.20.5030	9027.20.5050
	3345160135		9027.20.6050	9027.20.5060
	3345160145		9027.20.9000	9027.20.5080
	3345160147		9027.30.4040	9027.20.8030
	3345160149		9027.30.4080	9027.20.8060
	3345160155		9027.50.2000	9027.20.8090
	3345160157		9027.50.5000	9027.30.4040
	3345160162		9027.80.2600	9027.30.4080
	3345160163		9027.80.3100	9027.50.4015
	3345160165		9027.80.3200	9027.50.4020
	3345160167		9027.80.3500	9027.80.4520
			9027.80.8000	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	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	9022.13.0000
	3345170112		9022.14.0000	9022.14.0000
	3345170115		9022.21.0000	9022.21.0000
	3345170332		9022.29.8000	9022.29.8000
			9022.90.4000	9022.90.4000
			9022.90.6000	9022.90.6000
			9022.90.8000	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, will be 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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