

U.S. Census Bureau
Electromedical Equipment and Analytical Instruments - 2010
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Table 1. Value of Shipments of Electromedical Equipment and Analytical Instruments: 2010 to 2006
 [Millions of dollars]

Product class code	Product description	Year		Value
3333143	Optical instruments and lenses	2010		2,743.8
		2009	r/	2,504.0
		2008		2,540.2
		2007	a/	2,097.6
		2006		2,012.5
3345101	Electromedical equipment, including diagnostic, therapeutic, and patient monitoring equipment (excluding ionizing radiation equipment)	2010	a/	19,977.8
		2009	r/	18,691.1
		2008		21,254.0
		2007	a/	18,270.7
		2006		19,610.5
3345160	Analytical and scientific instruments, except optical	2010	a/	11,266.6
		2009		10,214.6
		2008		11,082.5
		2007		9,225.1
		2006		8,393.6
3345170	Irradiation (ionizing radiation) equipment	2010		6,819.1
		2009	r/	6,232.3
		2008	a/	6,722.2
		2007		6,370.7
		2006		7,065.2

Table 2. Value of Shipments of Electromedical Equipment and Analytical Instruments: 2010 and 2009
 [Value in thousands of dollars]

Product code	Product description	Year	Companies	Value
3333143	Optical instruments and lenses	2010	(X)	2,743,807
		2009	r/	2,504,018
3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	2010	22 a/	125,517
		2009	a/r/	113,659
3333143231	Optical test and inspection equipment	2010	30 a/	232,456
		2009		150,433
3333143232	Optical instruments used for inspecting semiconductors, wafers, and photo masks	2010	7	160,150
		2009	r/	125,754
3333143235	Filters	2010	29	355,258
		2009	r/	320,822
3333143237	Unmounted lenses	2010	38	514,940
		2009		477,262
3333143242	Mounted lenses	2010	16 a/	53,176
		2009	r/	43,112
3333143243	Other optical components	2010	47	836,295
		2009	r/	820,840
3333143245	Other optical instruments	2010	41	418,008
		2009		404,214
3333143251	Parts and accessories	2010	28	48,007
		2009	r/	47,922
3345101	Electromedical equipment, including diagnostic, therapeutic and patient monitoring equipment (excluding ionizing radiation equipment) Medical diagnostic equipment:	2010	(X) a/	19,977,826
		2009	r/	18,691,097
3345101103	Magnetic resonance imaging equipment (MRI)	2010	2	(D)
		2009		(D)
3345101106	Ultrasound scanning devices	2010	12	1,864,456
		2009		1,549,976

3345101109	Electrocardiograph (EKG)	2010	10		(S)
		2009			(S)
3345101124	All other medical diagnostic equipment	2010	39		1,230,874
	Patient monitoring equipment:	2009		r/	1,173,022
3345101227	Intensive care/coronary care units, including component modules such as temperature, blood pressure, and pulse	2010	14		961,989
		2009		r/	932,674
3345101233	Prenatal and respiratory monitoring	2010	9		(D)
		2009			(D)
3345101237	All other patient monitoring equipment	2010	22	b/	2,265,685
		2009		r/	2,007,324
3345101247	Defibrillators	2010	7		2,811,322
		2009			2,514,224
3345101251	Dialyzers, includes machines and equipment	2010	4		(D)
		2009			(D)
3345101254	Medical laser equipment	2010	11	b/	346,882
		2009		c/	379,186
3345101259	All other medical therapy equipment, including ultrasound therapy	2010	26		4,048,626
		2009			4,073,197
3345101361	Surgical Systems: Electrosurgical equipment	2010	15		973,496
		2009		r/	905,502
3345101372	All other surgical support systems	2010	16	a/	864,445
		2009		r/	800,680
3345101374	Other electromedical and electrotherapeutic apparatus	2010	15		1,731,282
		2009		r/	1,622,954
3345101477	Electromedical and electrotherapeutic parts and accessories	2010	33	a/	1,944,529
		2009		r/	1,849,899
3345160	Analytical and scientific instruments, except optical	2010	(X)	a/	11,266,613
		2009			10,214,585

3345160111	Electrochemical instruments	2010 2009	25	b/ b/	668,853 610,426
3345160112	Chromatographic instruments	2010 2009	27		1,154,466 1,055,756
3345160134	Spectrophotometric instruments	2010 2009	47	a/ a/r/	1,051,755 842,744
3345160135	Thermal analysis instruments	2010 2009	12	a/ a/	559,775 490,990
3345160145	Mass spectroscopy instruments	2010 2009	14		725,120 701,290
3345160147	Laboratory instrumentation, includes instruments used in clinical laboratory for measuring, analyzing and processing clinical specimens: Chemistry-measure and identify substances, e.g., metabolites, enzymes and drugs	2010 2009	19	a/ a/r/	498,271 543,203
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	2010 2009	12	r/	664,282 611,554
3345160155	Blood bank and immunology-process blood and specimens for testing; measure and identify, using immunoassay, substances in clinical specimens	2010 2009	7	a/ r/	978,927 891,936
3345160157	Other clinical laboratory instrumentation (including Microbiology Instrumentation)	2010 2009	15	r/	492,480 482,431
3345160162	Organic elemental analysis instruments (Carbon, Hydrogen, Nitrogen, Oxygen, Sulphur)	2010 2009	10	a/ a/	131,999 99,493
3345160163	Gas detectors	2010 2009	18	a/ a/	116,369 110,257
3345160165	Other analytical and scientific instruments	2010 2009	98	a/ a/	2,509,005 2,340,986
3345160167	Parts-Components and accessories for analytical and scientific instruments, sold separately	2010 2009	87	a/ a/	1,715,311 1,433,519
3345170	Irradiation (ionizing radiation) equipment	2010	(X)		6,819,080

	Medical diagnostic equipment:	2009		r/	6,232,257
	Medical X-ray equipment:				
3345170103	Digital radiography equipment	2010	9		(D)
		2009			(D)
3345170106	Computerized axial tomography (CT or CAT scan)	2010	6		1,237,662
		2009			1,156,195
3345170112	All other medical diagnostic X-ray equipment, including dental and conventional	2010	20		882,247
		2009		r/	940,545
3345170115	Nuclear medicine equipment	2010	12		1,077,577
	Other irradiation apparatus:	2009			968,593
3345170121	Industrial and scientific X-ray equipment	2010	12	c/	537,364
		2009			(S)
3345170124	X-ray tubes, sold separately	2010	7		(D)
		2009			(D)
3345170332	Other irradiation equipment, including parts and accessories for X-ray equipment	2010	30		2,119,398
		2009		r/	1,791,962

Table 3. Value of Shipments, Exports, and Imports of Electromedical Equipment and Analytical Instruments: 2010 and 2009
 [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 2/ (value at port)	Imports for consumption 3/4/
3333143119	Binoculars and astronomical instruments, parts and accessories, including mountings	2010	(N/A)	a/	125,517	262,821	254,079
		2009	(N/A)	a/r/	113,659	187,100	207,752
33331432XT	Optical instruments and lenses	2010	(N/A)		2,618,290	2,166,075	750,555
		2009	(N/A)	r/	2,390,359	1,157,701	556,992
3345101106	Ultrasound scanning devices, medical diagnostic	2010	(N/A)		1,864,456	823,400	236,662
		2009	(N/A)		1,549,976	771,844	197,452
3345101109	Electrocardiograph (EKG), medical diagnostic	2010	(N/A)		(S)	(NA)	17,208
		2009	(N/A)		(S)	(NA)	12,937
3345101124	All other medical diagnostic equipment	2010	(N/A)		1,230,874	1,686,992	1,374,342
		2009	(N/A)	r/	1,173,022	1,682,408	1,287,571
33451012XT	Therapeutic electromedical equipment	2010	(N/A)		7,206,830	794,746	1,121,383
		2009	(N/A)		6,966,607	939,629	1,203,724
33451012YT	Patient monitoring equipment	2010	(N/A)		(D)	787,700	301,266
		2009	(N/A)		(D)	691,330	270,705
3345101251	Dialyzers, including machines and equipment	2010	(N/A)		(D)	89,418	59,524
		2009	(N/A)		(D)	68,498	19,470
3345101361	Electrosurgical equipment	2010	(N/A)		973,496	1,937,434	582,413
		2009	(N/A)	r/	905,502	1,759,274	567,415
334510137T	Surgical systems equipment	2010	(N/A)		2,595,727	798,281	628,508
		2009	(N/A)		2,423,634	734,559	565,433
3345101477	Electromedical and electrotherapeutic parts and accessories	2010	(N/A)	a/	1,944,529	1,251,330	2,108,692
		2009	(N/A)	r/	1,849,899	1,158,643	1,726,709

3345160000	Analytical and scientific instruments, except optical	2010	(N/A)	a/	11,266,613	3,768,378	2,384,619
		2009	(N/A)		10,214,585	3,396,536	2,177,831
3345170106	Computerized axial tomography (CT or CAT scan)	2010	(N/A)		1,237,662	812,197	366,978
		2009	(N/A)		1,156,195	623,776	430,431
33451701XT	Digital radiography, nuclear medicine, and other medical diagnostic X-ray equipment and other irradiation equipment, including parts and accessories for X-ray equipment	2010	(N/A)		(D)	1,823,413	2,462,363
		2009	(N/A)		(D)	1,640,134	2,081,983
3345170121	Industrial and scientific X-ray equipment	2010	(N/A)	c/	537,364	417,647	238,156
		2009	(N/A)		(S)	370,968	181,139
3345170124	X-ray tubes, sold separately	2010	(N/A)		(D)	409,262	282,557
		2009	(N/A)		(D)	436,429	287,788

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: 2010

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	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
	3345101259			9018.90.7560
			9021.50.0000	
33451012YT	3345101227	Patient monitoring equipment	9018.19.5500	9018.19.5500
	3345101233			
	3345101237			
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	Surgical systems equipment	9018.20.0000	9018.20.0080
	3345101374		9018.90.7080	9018.90.7580
3345101477	3345101477	Electromedical and electrotherapeutic parts and accessories	9018.19.7500	9018.11.9000
			9018.19.9560	9018.19.7500
			9018.90.7070	9018.19.9560

				9018.90.7570
3345160000	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: 2010 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 (2010).

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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