

U.S. Census Bureau
Defense, Navigational and Aerospace Electronics - 2008
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Table 1. Value of Shipments of Defense, Navigational and Aerospace Electronics: 2008 to 2004
 [Millions of dollars]

Product class code	Product description	Year		Value
3345111	Aeronautical, nautical, and navigational instruments (except aircraft engine instruments)	2008		3,653.3
		2007	r/	3,371.3
		2006		2,838.6
		2005		2,766.9
		2004		2,199.7
3345113	Search and detection, navigation and guidance systems, and equipment	2008		36,261.8
		2007	r/	33,894.8
		2006		32,697.1
		2005		32,899.0
		2004		33,945.3
3345192	Aircraft engine instruments (except flight)	2008		1,238.7
		2007		1,025.1
		2006		978.5
		2005		889.5
		2004		761.6
3333197	Electronic trainers and simulators, teaching machines, and teaching aids, including kits	2008	b/	798.3
		2007	r/	776.7
		2006		1,030.0
		2005		1,314.9
		2004		1,571.1
3333141	Sighting, tracking, and fire control equipment, optical type	2008		1,862.2
		2007	r/	1,417.9
		2006		1,323.0
		2005		1,035.4
		2004		786.1

Table 2. Value of Shipments of Defense, Navigational and Aerospace Electronics: 2008 and 2007
 [Value in thousands of dollars.]

Product code	Product description	Year	No. of cos.	Value
3345111	Aeronautical, nautical, and navigational instruments (except aircraft engine instruments)	2008	(X)	3,653,276
		2007	r/	3,371,308
3345111106	Compasses, altimeters, and airspeed indicators	2008	22	572,367
		2007	a/	560,853
3345111111	Acceleration indicators, rate-of-climb and angle-of-attack indicators, and artificial horizon flight instruments	2008	16	85,740
		2007		105,506
3345111115	Other aerospace and navigational instruments	2008	18	1,536,526
		2007	r/	1,415,285
3345111226	Gyroscopes, sold separately	2008	8	65,050
		2007	r/	77,373
3345111232	Airframe equipment instruments	2008	16	136,438
		2007		100,852
3345111233	Other aerospace flight instruments	2008	23	766,102
		2007	a/r/	578,966
3345111335	Nautical instruments	2008	9	45,545
		2007	r/	54,373
3345111437	Parts and components	2008	24	445,508
		2007	a/r/	478,100
3345113	Search and detection systems, navigation and guidance systems, and equipment	2008	(X)	36,261,808
		2007	r/	33,894,795
3345113101	Light reconnaissance and surveillance electronic systems and equipment	2008	28	6,577,197
		2007	r/	6,655,281
3345113103	IFF equipment	2008	11	981,945
		2007		422,313
3345113207	Search, detection, and acquisition radar systems and equipment airborne and missile/space	2008	17	2,304,833
		2007		2,145,510
3345113212	Other search, detection, and acquisition radar systems and equipment	2008	20	4,810,495
		2007	r/	4,468,109
3345113318	Tracking radar systems and equipment (fire control, bombing, bombing-navigational radar, aircraft and missile tracking radar, etc)	2008	15	(S)
		2007	r/	1,499,254
3345113325	Instrumentation radar systems and equipment (altimeters, highway speed control radar, missile and space satellite tracking range radar, GCA and other precision approach radar, etc.)	2008	7	(D)
		2007	r/	146,973
3345113426	Sonar search, detection, tracing and communication systems and equipment guidance, including ASM (sonar telephone, communication equipment, depth finding, fire control, fusing, hydrophones mapping, sonabuys, navigation, sonar fish finders, sonar range instrumentation, etc.)	2008	21	666,283
		2007		602,794
3345113428	Electronic checkout and monitoring, equipment for radar, sonar search, detection, and communication systems and equipment	2008	13	483,784
		2007	r/	318,196
3345113433	Specialized command and control equipment	2008	16	454,939
		2007	r/	407,462
3345113436	Other search, detection, identification, and tracking systems and equipment	2008	25	874,239
		2007	r/	682,406

3345113437	Electronic warfare countermeasures equipment: jamming, communications and radar	2008	15		2,521,707
		2007		r/	2,115,700
3345113441	Other electronic warfare countermeasures equipment	2008	9		(D)
		2007		a/r/	134,794
3345113443	Specialized electronic and communications intelligence equipment	2008	20	a/	3,416,797
		2007		r/	2,678,324
3345113545	Missile borne and space vehicle guidance systems	2008	25	a/	3,665,107
		2007		a/r/	2,956,049
3345113547	Nonmissile and space vehicle guidance systems	2008	14		(S)
		2007			566,234
3345113549	Electronic checkout, launching, and other missile and space support systems	2008	11	a/	428,894
		2007			292,198
3345113651	Airborne navigational systems, radio navigation receivers and displays	2008	18		782,222
		2007		r/	913,829
3345113653	Airborne navigational systems, airborne integrated data systems/flight recorders	2008	5		243,840
		2007			221,570
3345113661	Airborne navigational systems, inertial navigation systems	2008	7		556,961
		2007		c/	1,233,197
3345113668	Other airborne navigational systems	2008	15		2,409,092
		2007		r/	3,523,163
3345113669	Surface (ship and ground) navigational systems	2008	30	c/	571,167
		2007		c/	575,816
3345113673	Electronic checkout, monitoring, evaluation, and other electronic support equipment for navigational systems and equipment	2008	23		548,585
		2007		r/	590,595
3345113681	All other search and detection, navigation and guidance systems and equipment, not specified above	2008	11		788,473
		2007			745,028
3345192	Aircraft engine instruments (except flight)	2008	(X)		1,238,681
		2007			1,025,079
3345192101	Temperature sensors, transmitters, and displays	2008	17		270,658
		2007		r/	259,625
3345192104	Pressure ratio and vacuum sensors, transmitters, controls, and displays	2008	9		88,811
		2007			84,168
3345192114	All other aircraft engine instruments	2008	20		871,220
		2007		r/	671,802
3345192115	Parts and components	2008	6		7,992
		2007		r/	9,484
3333197	Electronic trainers and simulators, teaching machines, and teaching aids, including kits	2008	(X)	b/	798,282
		2007		r/	776,673
3333141	Sighting, tracking, and fire control equipment, optical type	2008	(X)		1,862,249
		2007		r/	1,417,904
3333141101	Made from lenses, prisms, etc., produced in this plant	2008	9		750,605
		2007		r/	483,136
3333141103	Made from purchased lenses, prisms, etc.	2008	16	b/	358,274
		2007		c/	328,310
3333141104	Sighting and tracking laser systems	2008	9	a/	370,679
		2007			310,362

3333141106	Night vision goggles and equipment	2008	9	237,946
		2007		192,013
3333141109	Parts and accessories	2008	16	144,745
		2007	a/r/	104,083

Table 3. Value of Shipments, Exports and Imports of Defense, Navigational and Aerospace Electronics: 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/
3345111106	Compasses, altimeters, and airspeed indicators	2008	a/	572,367	101,975	51,512
		2007		560,853	91,145	60,389
334511000T	Search, detection, aeronautical, nautical, and navigational and guidance systems, equipment and instruments, (except aircraft engine instruments)	2008	a/	10,640,051	1,404,942	668,033
		2007	r/	9,888,049	1,291,419	579,426
334511300T	Radar systems and equipment	2008		(D)	430,379	214,939
		2007		8,259,846	605,103	129,769
3345113651	Airborne navigational systems, radio navigation receivers and displays	2008		782,222	656,646	3,713,503
		2007	r/	913,829	646,315	3,704,536
334511310T	Sonar search, detection, tracking, and communication systems and equipment, including ASW (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones, mapping, sonabuoy, navigation, sonar fish finders, sonar finders, sonar range instrumentation, and other)	2008		(D)	136,220	228,200
		2007		17,643,526	138,574	212,112
3333141	Sighting, tracking, and fire control equipment, optical type	2008		1,862,249	76,782	165,396
		2007	r/	1,417,904	54,819	172,443

Footnotes:

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

2/ Source: Census Bureau report, EM 545, U.S. Exports.

3/ Source: Census Bureau report, IM 145, 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: 2008

Combined code	Product code	Product description	Export code 1/	Import code 2/
3345111106	3345111106	Compasses, altimeters, and airspeed indicators	9014.10.1040 9014.10.1080 9014.10.6040 9014.10.6080 9014.10.7040 9014.10.7080 9014.10.9040 9014.10.9080	9014.10.1000 9014.10.6000 9014.10.7030 9014.10.7060 9014.10.9000
334511000T	3345111111 3345111115 3345111226 3345111232 3345111233 3345111335 3345111437 3345113101 3345113103	Search, detection, aeronautical, nautical, and navigational and guidance systems, equipment and instruments, (except aircraft engine instruments)	9014.20.2000 9014.20.4000 9014.20.6000 9014.20.8040 9014.20.8080 9014.90.0000	9014.20.2000 9014.20.4000 9014.20.6000 9014.20.8040 9014.20.8080 9014.80.1000 9014.90.2040 9014.90.2080 9014.90.6000
334511300T	3345113207 3345113212 3345113318 3345113325	Radar systems and equipment	8526.10.0010 8526.10.0020 8526.10.0070	8526.10.0020 8526.10.0040
3345113651	3345113651	Airborne navigational systems, radio navigation receivers and displays	8526.91.0010 8526.91.0030 8526.91.0070	8526.91.0020 8526.91.0040
334511310T	3345113426 3345113428 3345113433 3345113436 3345113437 3345113441 3345113443 3345113545 3345113547 3345113549 3345113653 3345113661 3345113668 3345113669 3345113673 3345113681	Sonar search, detection, tracking, and communication systems and equipment, including ASW (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones, mapping, sonabuoy, navigation, sonar fish finders, sonar finders, sonar range instrumentation, and other)	9014.80.2000 9014.80.6000	9014.80.2000 9014.80.4000 9014.80.5000
3333141	3333141101 3333141103 3333141104 3333141106 3333141109	Sighting, tracking, and fire control equipment, optical type	9013.10.2000 9013.10.4000	9013.10.1000 9013.10.3000 9013.10.4000

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) - Withheld because estimates did not meet publication standards

Historical Note

The Census Bureau has collected data on selected instruments and related products since 1961 on survey MA334B.

Beginning in 2005, a portion of data for MA334B, Selected Instruments and Related Products, will be published under the new survey MA334D, Defense, Navigational, and Aerospace Electronics. Additional data for MA334B can be found on surveys MA334A, Analytical and Biomedical Instruments, MA334C, Control Instruments, and MA334T, Meters and Test Devices.

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