

U.S. Census Bureau  
Defense, Navigational and Aerospace Electronics - 2009  
MA334D(09)  
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Address inquiries concerning these data to the Investment Goods Industries Branch, U.S. Department of Commerce, Bureau of the Census, Manufacturing and Construction Division, Washington D.C. 20233-6900, or call Philippe S.J. Morris, 301-763-4819.

These data are also available online through STAT-USA by subscription. For further information, visit <http://www.stat-usa.gov/> or call 1-800-STAT-USA.

Table 1. Value of Shipments of Defense, Navigational and Aerospace Electronics: 2009 to 2005  
 [Millions of dollars]

Product class code	Product description	Year	Value
3345111	Aeronautical, nautical, and navigational instruments (except aircraft engine instruments)	2009	3,598.0
		2008	3,678.3
		2007	3,371.3
		2006	2,838.6
		2005	2,766.9
3345113	Search and detection, navigation and guidance systems and equipment	2009	38,737.1
		2008	37,237.7
		2007	33,894.8
		2006	32,697.1
		2005	32,899.0
3345192	Aircraft engine instruments (except flight)	2009	1,164.7
		2008	1,248.7
		2007	1,025.1
		2006	978.5
		2005	889.5
3333197	Electronic trainers and simulators, teaching machines, and teaching aids, including kits	2009	739.0
		2008	822.5
		2007	776.7
		2006	1,030.0
		2005	1,314.9
3333141	Sighting, tracking, and fire control equipment, optical type	2009	2,642.8
		2008	r/ 2,494.3
		2007	1,417.9
		2006	1,323.0
		2005	1,035.4

Table 2. Value of Shipments of Defense, Navigational and Aerospace Electronics: 2009 and 2008  
 [Value in thousands of dollars.]

Product code	Product description	Year	No. of cos.	Value
3345111	Aeronautical, nautical, and navigational instruments (except aircraft engine instruments)	2009 2008	(X)	3,598,004 3,678,271
3345111106	Compasses, altimeters, and airspeed indicators	2009 2008	24 r/	502,193 608,282
3345111111	Acceleration indicators, rate-of-climb and angle-of-attack indicators, and artificial horizon flight instruments	2009 2008	16 r/	47,264 70,857
3345111115	Other aerospace and navigational instruments	2009 2008	17	1,126,258 1,536,505
3345111226	Gyroscopes, sold separately	2009 2008	9	70,290 65,050
3345111232	Airframe equipment instruments	2009 2008	17 r/	255,599 188,926
3345111233	Other aerospace flight instruments	2009 2008	22	731,866 765,600
3345111335	Nautical instruments	2009 2008	10 r/a/	69,537 49,919
3345111437	Parts and components	2009 2008	29 r/	794,997 393,132
3345113	Search and detection systems, navigation and guidance systems, and equipment	2009 2008	(X)	38,737,103 37,237,727
3345113101	Light reconnaissance and surveillance electronic systems and equipment	2009 2008	29	7,799,665 6,640,530
3345113103	IFF equipment	2009 2008	12	1,035,903 981,945
3345113207	Search, detection, and acquisition radar systems and equipment airborne and missile/space	2009 2008	18 r/	3,597,979 3,301,251
3345113212	Other search, detection, and acquisition radar systems and equipment	2009 2008	17	3,992,020 (D)
3345113318	Tracking radar systems and equipment (fire control, bombing, bombing-navigational radar, aircraft and missile tracking radar, etc)	2009 2008	16	1,450,064 1,280,135
3345113325	Instrumentation radar systems and equipment (altimeters, highway speed control radar, missile and space satellite tracking range radar, etc.)	2009 2008	8	(D) (D)
3345113426	Sonar search, detection, tracking, and communication systems and equipment guidance, including ASM (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones mapping, sonabuoys, etc.)	2009 2008	21	799,680 657,652
3345113428	Electronic checkout and monitoring, equipment for radar, sonar search, detection, and communication systems and equipment	2009 2008	11	388,331 478,477
3345113433	Specialized command and control equipment	2009 2008	15	364,538 450,395
3345113436	Other search, detection, identification, and tracking systems and equipment	2009 2008	24 r/	735,801 789,147

3345113437	Electronic warfare countermeasures equipment: jamming, communications and radar	2009 2008	13		3,079,069 2,604,692
3345113441	Other electronic warfare countermeasures equipment	2009 2008	6		(D) (D)
3345113443	Specialized electronic and communications intelligence equipment	2009 2008	20		3,467,605 3,258,194
3345113545	Missile borne and space vehicle guidance systems	2009 2008	24	r/	3,308,168 3,460,591
3345113547	Nonmissile and space vehicle guidance systems	2009 2008	9		413,025 488,446
3345113549	Electronic checkout, launching, and other missile and space support systems	2009 2008	11	b/	568,512 419,178
3345113651	Airborne navigational systems, radio navigation receivers and displays	2009 2008	17		790,239 791,730
3345113653	Airborne navigational systems, airborne integrated data systems/flight recorders	2009 2008	6	r/	(D) 258,126
3345113661	Airborne navigational systems, inertial navigation systems	2009 2008	7		767,603 556,961
3345113668	Other airborne navigational systems	2009 2008	15		2,559,256 2,414,932
3345113669	Surface (ship and ground) navigational systems	2009 2008	26	r/a/	493,957 458,648
3345113673	Electronic checkout, monitoring, evaluation, and other electronic support equipment for navigational systems and equipment	2009 2008	23		546,278 548,560
3345113681	All other search and detection, navigation and guidance systems and equipment, not specified above	2009 2008	12	r/b/	1,417,100 1,853,825
3345192	Aircraft engine instruments (except flight)	2009 2008	(X)		1,164,731 1,248,662
3345192101	Temperature sensors, transmitters, and displays	2009 2008	17		221,450 283,781
3345192104	Pressure ratio and vacuum sensors, transmitters, controls, and displays	2009 2008	8	r/	69,231 98,778
3345192114	All other aircraft engine instruments	2009 2008	19	r/	762,807 740,667
3345192115	Parts and components	2009 2008	9	c/ r/c/	111,243 125,436
3333197	Electronic trainers and simulators, teaching machines, and teaching aids, including kits	2009 2008	(X)		739,032 822,538
3333141	Sighting, tracking, and fire control equipment optical type	2009 2008	(X)	r/	2,642,810 2,494,304
3333141101	Made from lenses, prisms, etc., produced in this plant	2009 2008	8	r/	543,176 560,133
3333141103	Made from purchased lenses, prisms, etc.	2009 2008	14	b/	363,724 361,090
3333141104	Sighting and tracking laser systems	2009 2008	8		315,018 368,575

3333141106	Night vision goggles and equipment	2009	9		677,221
		2008		r/	462,610
3333141109	Parts and accessories	2009	19		743,671
		2008		r/	741,896

Table 3. Value of Shipments, Exports and Imports of Defense, Navigational and Aerospace Electronics: 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 2/ (value at port)	Imports for consumption 3/4/
3345111106	Compasses, altimeters, and airspeed indicators	2009	(N/A)	502,193	80,439	41,167
		2008	(N/A) r/	608,282	101,975	51,512
334511000T	Search, detection, aeronautical, nautical, and navigational and guidance systems, equipment and instruments, n.e.c. (except aircraft engine instruments)	2009	(N/A)	11,931,379	N/A	789,717
		2008	(N/A)	10,692,464	1,404,942	668,033
334511300T	Radar systems and equipment	2009	(N/A)	(D)	316,345	206,155
		2008	(N/A)	9,271,624	430,379	214,939
3345113651	Radio navigational aid receivers and displays	2009	(N/A)	790,239	447,721	3,542,025
		2008	(N/A)	791,730	656,646	3,713,503
334511310T	Sonar search, detection, tracking, and communication systems and equipment, including ASM (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones mapping, sonabuys, etc.)	2009	(N/A)	19,944,596	148,911	206,369
		2008	(N/A)	(D)	136,220	228,200
3333141100	Sighting, tracking, and fire control equipment, optical type	2009	(N/A)	2,642,810	70,389	166,034
		2008	(N/A) r/	2,494,304	76,782	165,396

Footnotes:

1/For comparison of the North American Industry Classification Systems 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: 2009

Combined code	Product code	Product description	Export code 1/	Import code 2/
3345111106	3345111106	Compasses, altimeters, and airspeed indicators	9014.10.1080 9014.10.6080 9014.10.7080 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, n.e.c. (except aircraft engine instruments)	N/A	9014.20.2000 9014.20.4000 9014.20.6000 9014.20.8040 9014.20.8080 9014.90.2040 9014.90.2080 9014.90.6000 9014.80.1000
334511300T	3345113207 3345113212 3345113318 3345113325	Radar systems and equipment	8526.10.0020 8526.10.0070	8526.10.0020 8526.10.0040
3345113651	3345113651	Airborne navigational systems, radio navigational receivers and displays	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 ASM (sonar telephone, communication equipment, depth finding, fire control, fusing guidance, hydrophones mapping, sonabuoy, etc.)	9014.80.2000 9014.80.6000	9014.80.2000 9014.80.4000 9014.80.5000
3333141100	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: 2009 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 (2009).

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.

Since 2005, a portion of data for MA334B, Selected Instruments and Related Products, has been 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.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.