



**DEPARTMENT OF THE AIR FORCE**  
AIR FORCE LIFE CYCLE MANAGEMENT CENTER  
WRIGHT-PATTERSON AIR FORCE BASE OHIO

30 June 2022

MEMORANDUM FOR: ALL CONCERNED

FROM: AFLCMC/EZAC  
2145 Monahan Way  
Wright-Patterson AFB OH 45433-7017

SUBJECT: List of Air Worthiness Determinations for Intra-System Electromagnetic Compatibility (EMC) of Common Use Carry-On Equipment.

1. References:

- (a) AFI62-601\_AFMCSUP\_I, "USAF Air Worthiness," 12 May 2011.
- (b) MIL-HDBK-516C, "Airworthiness Certification Criteria," 12 December 2014.
- (c) AFLCMC/EZAC Memorandum, "Guidance Memorandum for Air Worthiness Determination for Intra-System Electromagnetic Compatibility (EMC) of Common Use Carry-On Equipment," 16 April 2020.

2. In accordance with Section 2.2.9 of reference (a), we are accredited as the Air Force subject matter experts (SMEs) for the Electromagnetic Environmental Effects (E3) technical discipline for air worthiness determination, following the criteria in reference (b).

3. The "common use" carry-on equipment listed in Section 2 through 9 has been evaluated for Electromagnetic Interference (EMI) characteristics per the guidance of reference (c) in accordance with Section 13 of reference (b) and are compliant to be used on Air Force aircraft. This memorandum **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft. Standard aircraft equipment must meet the EMI requirements specified for avionics/electrical equipment for the particular aircraft. Notes in [Section 1](#) below show the allowable usage for each equipment item based on class of aircraft. Items are organized into Sections based on type of equipment as follows:

<u>Section</u>	<u>Category</u>
2	<a href="#">Computers</a>
3	<a href="#">Audio-Visual Equipment</a>
4	<a href="#">Communications Equipment</a>
5	<a href="#">Global Positioning System (GPS) Receivers</a>

- 6        [Printers](#)
- 7        [Headsets](#)
- 8        [Bio-Environmental Equipment](#)
- 9        [Wireless Tags](#)

- 4. This letter is not intended to promote or endorse any manufacturer's product.
  
- 5. If there are any questions, please contact Felipe Nazario-Romero at DSN 312-674-7777, Comm 937-904-7777, [felipe.nazarioromero.1@us.af.mil](mailto:felipe.nazarioromero.1@us.af.mil); or Steven Coffman at DSN 312-798-8673, Comm 937-528-8673, [steven.coffman.2.ctr@us.af.mil](mailto:steven.coffman.2.ctr@us.af.mil); or the undersigned at DSN 312-785-7676, Comm 937-255-7676, [jose.pabon\\_soto.1@us.af.mil](mailto:jose.pabon_soto.1@us.af.mil).
  
- 6. The latest version of this memorandum can be obtained at the following SharePoint site: <https://usaf.dps.mil/teams/21373/E3/SitePages/Home.aspx>. A Common Access Card (CAC) is required to access this website.



Jose Pabon Soto, Technical Advisor  
Electromagnetic Environmental Effects  
Communication and Networks Branch  
Engineering and Technical Management Directorate

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## SECTION 1

### NOTES ON EQUIPMENT EMI QUALIFICATION STATUS

The Notes below (1 through 7) define allowable usage based on class of aircraft (rotary-wing, small fixed-wing:  $\leq 25$  meters nose-to-tail, and large fixed-wing:  $> 25$  meters nose-to-tail) and electrical power source. The class of aircraft has been determined by the evaluation results compared to three different limits used in MIL-STD-461F: rotary-wing aircraft, small fixed-wing aircraft, and large fixed-wing aircraft. The EMI requirements have been met for all phases of flight. Other non-related concerns may restrict use of items during some phases of flight. The appropriate Notes are included in the listings for each equipment item.

When using an Ethernet connection with any device, an additional provision is that qualification is limited to fixed-wing aircraft only.

#### Explanations of multiple notes.

If Notes 2 and 5 apply, the following operational scenarios apply: (1) the equipment when configured to operate on battery power may be used on all aircraft during all phases of operation, (2) the equipment when configured to operate on aircraft power may be used only on large body aircraft during all phases of operation.

#### Combining equipment items.

When multiple items in the listings are to be used together, the most restrictive Note must be applied. If a laptop computer is assigned Note 1 and a remote monitor is assigned Note 3, then Note 3 is applicable for the combination.

#### **Notes:**

- 1.** Meets the EMI requirements for operation on all rotary-wing and fixed-wing aircraft, on internal batteries, using power adapters specified in the listings, or direct connection to aircraft power as specified in the listings.
- 2.** Meets the EMI requirements for operation on all rotary-wing and fixed-wing aircraft, when used on internal batteries only.
- 3.** Meets the EMI requirements for operation on all fixed-wing aircraft, using power adapters specified in the listings, or direct connection to aircraft power as specified in the listings.
- 4.** Meets the EMI requirements for operation on all fixed-wing aircraft, when used on internal batteries only.
- 5.** Meets the EMI requirements for operation on all large body (25 meters in length or longer) fixed-wing aircraft, using power adapters specified in the listings, or direct connection to aircraft power as specified in the listings.

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**6.** Meets the EMI requirements for operation on all large body (25 meters in length or longer) fixed-wing aircraft, when used on internal batteries only.

**S** = Some MIL-STD-461D/ E/F/G susceptibility (radiated & conducted) evaluations have been accomplished.

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## SECTION 2

### COMPUTERS

Items are sorted in ascending alphabetical order first by Company and then by Model

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
Hand Held Computer	3Com	Palm IIIc with P/N 180-0711 Adapter	1	2000
Hand Held Computer	3Com	Palm IIIxe	2	2000
Handheld Computer	3Com	Palm V	1	2000
Hand Held Computer	3Com	Palm Vx with P/N 163-0022 Adapter	2, 3	2000
Handheld Computer	3Com	Palm VII	3	2000
Glucose Monitor	Abbott	Freestyle Freedom CAGV101-R2141	1	2017
Reader	Amazon	Kindle D00611with 1. AC Adapter, Flextronics A00810 2. Internal Batteries	3 2	2009 2009
Laptop Computer	AMREL	RT686 EX with P/N F196031 AC Adapter	3	2003
Tablet PC	Apple	iPad 1. 10 Watt USB Power Adapter 2. Internal Batteries	3 2	2010 2010
Tablet PC	Apple	iPad Air	2	2014
Tablet PC	Apple	iPad Air 2, MGKM2LL/A, Case Model 1566 Meets RS103 for Fixed Wing Aircraft for Electronic Flight Bags (Internal Batteries), requires SPO Approval	2, S	2015

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Tablet PC	Apple	iPad 2 1. A1357 USB Power Adapter 2. Internal Batteries	<b>3</b> <b>2</b>	<b>2011</b> <b>2011</b>
Tablet PC	Apple	iPad 3 1. A1357 USB Power Adapter (optional use of GNS GPS 5870 MFI with Bluetooth) 2. Internal Batteries (optional use of Bad Elf GPS) BE-GPS-1000 using 30 pin iPad 3 port or GNS GPS 5870 MFI with Bluetooth)	<b>3</b> <b>2</b>	<b>2012</b> <b>2012</b>
Tablet PC	Apple	iPad 4 1. A1401 USB Power Adapter 2. Internal Batteries	<b>3</b> <b>2</b>	<b>2013</b> <b>2013</b>
Tablet PC	Apple	iPad Mini 1. A1265 USB Power Adapter 2. Internal Batteries Meets RS103 for Fixed Wing Aircraft for Electronic Flight Bags (Internal Batteries), requires SPO Approval	<b>3</b> <b>2, S</b>	<b>2013</b> <b>2013</b>
Tablet PC	Apple	iPad Mini 3, Model MGGQ2LL/A, Case Model A1599 Meets RS103 for all AF Aircraft for Electronic Flight Bags (Internal Batteries), requires SPO Approval	<b>2, S</b>	<b>2015</b>
Tablet PC	Apple	iPad Mini 3, with the following Model Numbers MH372LL/A, FH3L2LL/A, FH3M2LL/A, and FH3N2LL/A AND with the Case Model A1600 Meets RS103 for All AF Aircraft for Electronic Flight Bags (Internal Batteries), requires SPO Approval	<b>2, S</b>	<b>2015</b>
Tablet PC	Apple	iPad Mini 4, Model MK9N2LL/A, Case Model A1538 Meets RS103 for all AF Aircraft for Electronic Flight Bags, requires SPO Approval	<b>2, S</b>	<b>2015</b>

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Tablet PC	Apple	iPad Mini 4, Model MK9N2LL/A, Case Model A1538 with external Battery Mophie PowerstationXL Meets RS103 for all AF Aircraft for Electronic Flight Bags (External Batteries), requires SPO Approval	<b>3, S</b>	<b>2015</b>
Tablet PC	Apple	iPad Mini 5, Model MUU32LL/A 1. Internal Batteries	<b>2</b>	<b>2022</b>
Tablet PC	Apple	iPad Mini with Retina Display 1. A1357 USB Power Adapter 2. Internal Batteries 3. Lind Power Adapter USBML2-4801	<b>3</b> <b>4</b> <b>1</b>	<b>2014</b> <b>2014</b> <b>2020</b>
Tablet PC	Apple	iPad Pro 9.7", Model MLMV2LL/A, Meets RS103 for all AF Aircraft for Electronic Flight Bags, requires SPO Approval	<b>2, S</b>	<b>2016</b>
Tablet PC	Apple	iPad Pro 11", Model MXDD2LL/A, Meets RS103 for all AF Aircraft for Electronic Flight Bags, Bags (Internal Batteries), requires SPO Approval.	<b>2, S</b>	<b>2020</b>
Laptop Computer	Argonaut	A760S/R830-12 with P/N ADP-90FB Rev F AC Adapter	<b>3</b>	<b>2003</b>
Tablet Computer	Asus	Eee Pad Transformer TF101 with 1. AD827M AC Adaptor 2. Internal Batteries	<b>3</b> <b>2</b>	<b>2011</b> <b>2011</b>
Handheld Computer	Compaq	H3630	<b>2, 3</b>	<b>2000</b>
Pocket PC	Compaq	Ipaq H3870 with P/N PCS10A-050 Adapter	<b>1</b>	<b>2002</b>
Pocket PC	Compaq	Ipaq H3970 with P/N PCS10A-050 Adapter or 17053-2 AC Adapter (Tadiran)	<b>1</b>	<b>2004</b>
External Disk Drive	DataZone	DataBook-14GB	<b>3</b>	<b>2001</b>
Laptop Computer	Dell	Latitude ATG D630	<b>4</b>	<b>2008</b>
Laptop Computer	Dell	Latitude D630C	<b>6</b>	<b>2010</b>

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Laptop Computer	Dell	E6400 with	1. PA-3E AC Adapter	<b>3</b>	<b>2009</b>
			2. Internal Batteries	<b>4</b>	<b>2009</b>
Laptop Computer	Dell	Latitude 3410 with charger P/N: LA65NS2-01		<b>3</b>	<b>2021</b>
Laptop Computer	Dell	Latitude D610 with PA-12 AC Adapter		<b>5</b>	<b>2007</b>
Laptop Computer	Dell	Latitude D620 with PA-12 AC Adapter		<b>3</b>	<b>2007</b>
Laptop Computer	Dell	Latitude D800 with PA-1900-02D AC Adapter		<b>3</b>	<b>2006</b>
Laptop Computer	Dell	Latitude E6420 or E6420XFR with	1. Model FA90PE1-00 AC Adapter	<b>3</b>	<b>2011</b>
			2. Internal Batteries	<b>4</b>	<b>2011</b>
Laptop Computer	Dell	Latitude E6500 with HA90PE1-00 AC Adapter		<b>3</b>	<b>2009</b>
Laptop Computer	Dell	Latitude E6530	1. LA90PM111 AC Adapter	<b>3</b>	<b>2014</b>
			2. Internal Batteries	<b>4</b>	<b>2014</b>
Laptop Computer	Dell	Latitude Rugged 5414 with LA90PM130 AC Adapter		<b>3</b>	<b>2021</b>
Laptop Computer	Dell	Latitude Rugged Extreme 12 / 7204 with Model MIL2045-2221 and LA65NM130 AC Adapters		<b>5</b>	<b>2015</b>
Laptop Computer	Dell	Latitude Rugged Extreme 12 / 7212 with Power Adapter P/N: LA45NM140		<b>3</b>	<b>2021</b>
Laptop Computer	Dell	Latitude Rugged Extreme 12 / 7214 with 130W Power Adapter P/N:VJCH5		<b>5</b>	<b>2016</b>
Laptop Computer	Dell	Latitude Rugged Extreme 14 P45G001	1. FA90PM130 AC Adapter	<b>3</b>	<b>2015</b>
			2. ACMIL2045-2892 LA LIND Adapter	<b>3</b>	<b>2015</b>
			3. Internal Batteries	<b>4</b>	<b>2015</b>

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Laptop Computer	Dell	Latitude Rugged Extreme 14 / 7414 with VJCH5 AC Adapter	<b>5</b>	<b>2017</b>
Laptop Computer	Dell	Latitude Rugged Extreme 7424 1. With HA90PM180 AC Adapter	<b>5</b>	<b>2019</b>
		2. With Internal batteries	<b>4</b>	<b>2019</b>
Laptop Computer	Dell	M60 with PA-1900-02D0 AC Adapter	<b>1</b>	<b>2003</b>
Laptop Computer	Dell	M65 with NADP-90KB AC Adapter	<b>1</b>	<b>2006</b>
Laptop Computer	Dell	M70 with PA-1900-02D0 AC Adapter	<b>1</b>	<b>2006</b>
Laptop Computer	Dell	PP01X Latitude C800 with Model ADP-70EB (P/N AA20031) AC Adapter	<b>2, 3</b>	<b>2001</b>
Laptop Computer	Dell	PP01X Latitude C810 with Model ADP-70EB (P/N 9364U) AC Adapter	<b>2, 3</b>	<b>2002</b>
Laptop Computer	Dell	PP01X Latitude C840 with Model PA-1900-05D (P/N 6G356) AC Adapter	<b>3</b>	<b>2002</b>
Laptop Computer	Dell	PP01X Latitude C840 with Model ADP-90FB (P/N 6G356) AC Adapter	<b>3</b>	<b>2002</b>
Laptop Computer	Dell	PP02X Latitude D800 with Model PA-1900-02D AC Adapter	<b>3</b>	<b>2004</b>
Laptop Computer	Dell	PP04S Latitude X300 with Model PR04S (P/N BY250 A01) Media Base, with Model PA10 (AA22850) P/N F2951 or Model PA12 (HP-0Q065B83 Rev H01) P/N 8Y114 AC Adapter	<b>1</b>	<b>2004</b>
Laptop Computer	Dell	PP09L Inspiron with Model PA-1151-06D AC Adapter	<b>5</b>	<b>2004</b>
Laptop Computer	Dell	PPI Inspiron 7500 with Model ADP-70EB (P/N AA20031) AC Adapter	<b>3</b>	<b>2001</b>

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Laptop Computer	Dell	Precision 7520 with		
		1. Dell DA180PM111 AC/DC Adapter	3	2017
		2. LIND ACMIL2830-3216 AC/DC Adapter	5	2017
		3. LIND DE2060-1429 AC/DC Adapter	5	2017
		4. Internal Batteries	2	2017
Laptop Computer	Dell	Precision 7550 with		
		1. Dell HA180PM181 AC/DC Adapter	3	2021
		2. LIND DE2090-3955 AC/DC Adapter	3	2021
		3. Internal Batteries	2	2021
Laptop Computer	Dell	Precision 7760 with		
		1. Internal Batteries	2	2022
Laptop Computer	Dell	Precision M6600 (Model P10E) with		
		1. Delta GA240PEI-00 AC/DC Adapter	5	2012
		2. Internal Batteries	4	2012
Laptop Computer	Dell	Precision M4300 (Model PP04X) with PA-10 AC/DC Adapter	3	2007
Laptop Computer	Dell	Precision M4600 (Model P13F001) with		
		1. Delta DA180PM111 AC/DC Adapter	5	2012
		2. Internal Batteries	4	2012
		3. Lind DE2060-1429 DC/DC Adapter	3	2013
Laptop Computer	Dell	Precision M4700 with		
		1. Dell DW5G3 AC/DC Adapter	5	2013
		2. Lind DE2060-1429 DC/DC Adapter	5	2013
		3. Internal Batteries	4	2013
Laptop Computer	Dell	Precision M4800 with		
		1. Dell WW4XY AC/DC Adapter	5	2014
		2. Lind DE2060-1429 DC/DC Adapter	3	2014
		3. Internal Batteries	4	2014
Laptop Computer	Dell	Precision M6600 (Model P10E) with		
		1. Delta GA240PEI-00 AC/DC Adapter	5	2012
		2. Internal Batteries	4	2012
Personal Digital Assistant	Dell	Axim X50V, X51, and X51V	1	2005

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Tablet PC	Dell	Venue 8 Pro 5855 T03D 1. Internal Batteries 2. Dell HA10USNM130 AC Adapter Meets RS103 for Fixed Wing Aircraft for Electronic Flight Bags (Internal Batteries), requires SPO Approval	2, S 3	2016 2016
Laptop Computer	Dell	XPS M1210 with PA-12 AC Adapter	3	2007
Tablet Computer	DRS Technologies	Hammerhead with 9850-17039-0000 AC Adapter	2, 3	2006
Specialty Computer	Digital Receiver Technology (DRT)	9502A using either Pihong Switching AC Adaptor PSA150U-240 or 28 Volt DC source derived from other aircraft equipment (not directly from aircraft power bus)	3	2008
Laptop Computer	EPS 233MHz	983A with P/N 50GB Adapter	3	1998
Laptop Computer	Fujitsu	CP073155-01 with P/N ca01007-0750 Adapter	5	2000
Tablet Computer	Fujitsu	Lifebook T580 with 1. CP443402-01 AC Adapter 2. Internal batteries	5 4	2011 2011
Tablet Computer	Fujitsu	Stylistic Q550 with 1. CP443401-01 AC Adapter 2. Internal batteries	3 4	2011 2011
Laptop Computer	Fujitsu Lifebook	T4010D with CA01007-930 AC Adapter	3	2006
Pen Tablet Computer	Fujitsu Stylistic LT P-600 Series	CP098570-01, CP098571-01 with P/N ca01007-0860 Adapter or P/N ca01007-0870 Adapter	2, 3	2002
Laptop Computer	Fujitsu	FMW2801T Stylistic 2300 Series with P/N ca01007-0520 Adapter	3	2000
Pen Tablet Computer	Fujitsu LT C-500 Series	FMW4303TS Stylistic with P/N ca01007-0750 Adapter	1	2001

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Tablet Computer	GammaTech	DURABOOK R11 1. FSP Group FSP065-RAB Adaptor 2. Internal batteries	<b>3</b> <b>2</b>	<b>2014</b> <b>2014</b>
Tablet Computer	GammaTech	TA-10i with 1. FSP Group FSP065-RAB Adaptor 2. Internal batteries	<b>5</b> <b>4</b>	<b>2013</b> <b>2013</b>
Laptop Computer	Gateway	600YGR when used with SA80T-3115 AC Adapter	<b>3</b>	<b>2002</b>
Laptop Computer	Gateway 366MHz	2500LS	<b>4, 5</b>	<b>1999</b>
Laptop Computer	Gateway Solo	5300 P-3 with SA70-3105 AC Adapter	<b>3</b>	<b>2003</b>
Laptop Computer	Gateway 800MHz	9300	<b>2, 3</b>	<b>2001</b>
Laptop Computer	Gateway	M275 when used with ADP-60DH AC Adaptor	<b>2, 3</b>	<b>2005</b>
Tablet Computer	Getac	400S	<b>4</b>	<b>2017</b>
Tablet Computer	Getac	CA27 with C-ACADA AC Adapter Not certified for wireless operation	<b>2, 3</b>	<b>2006</b>
Laptop Computer	Getac	B300 with 1. 242116200002 AC Adapter 2. Internal batteries	<b>1</b> <b>2</b>	<b>2011</b> <b>2011</b>
Laptop Computer	Getac	B360 with Charger model A15-090P1A	<b>1</b>	<b>2022</b>
Laptop Computer	Getac	F110 with ADM-9019M AC Adapter N/D	<b>3</b>	<b>2013</b>
Laptop Computer	Getac	K120 (52621420000016) with MTA190474WA AC Adapter	<b>3</b>	<b>2020</b>

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Laptop Computer	Getac	T800 with ADM-9019M AC Adapter N/D	<b>3</b>	<b>2014</b>
Laptop Computer	Getac	UX10 (526214110003) with ADM-9019M AC Adapter	<b>3</b>	<b>2020</b>
Laptop Computer	Getac	V100 with 1. AC Adapter ADM-9019M/GTK 2. Internal batteries	<b>3</b> <b>4</b>	<b>2010</b> <b>2010</b>
Laptop Computer	Getac	V110 with 1. ADM-9019M AC Adapter N/D 2. MTA190474W4 AC Adapter 3. Charger Model FSP065-RBBN3	<b>3</b> <b>3</b> <b>1</b>	<b>2013</b> <b>2020</b> <b>2022</b>
Laptop Computer	Getac	V200 with 1. 242116200002 AC Adapter 2. Internal batteries	<b>1</b> <b>2</b>	<b>2011</b> <b>2011</b>
Laptop Computer	Getac	X500 with ADM-9019M AC Adapter N/D	<b>3</b>	<b>2011</b>
Laptop Computer	General Dynamics Itronix	GD6000 when used with Delta Electronics ADP-65HB or ADP-65JH AC/DC Adapter	<b>3, 4</b>	<b>2009</b>
Laptop Computer	General Dynamics Itronix	GD8000 when used with Delta Electronics ADP-90SB or ADP-90CD AC/DC Adapter	<b>3, 4</b>	<b>2009</b>
Laptop Computer	General Dynamics Itronix	MR-1 when used with Delta Electronics ADP-48HB or Hipro HP-A0502R3D AC/DC Adapter	<b>3, 4</b>	<b>2009</b>
Laptop Computer	General Dynamics Itronix	GoBook VR-2 (Model IX605) when used with Delta Electronics SADP-65KB AC/DC Adapter	<b>1</b>	<b>2007</b>
Laptop Computer	Hammerhead	900150-CS-NVIS MRT with internal GPS when used with Cincon TR70A15 AC Adapter	<b>1</b>	<b>2005</b>
Laptop Computer	Hammerhead	900160-CS-NVIS MRT with internal GPS when used with Cincon TR70A15 AC Adapter	<b>1</b>	<b>2005</b>

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Laptop Computer	Hammerhead	900145-CS-NVIS XRT with internal GPS when used with Cincon TR70A15 AC Adapter	1	2005
Laptop Computer	Hammerhead	900158-CS-NVIS XRT with internal GPS when used with Cincon TR70A15 AC Adapter	1	2005
Hand Held Computer	Handspring	Visor (2Mb memory)	2	2000
Hand Held Computer	Handspring	Visor Deluxe (8Mb memory)	2	2000
Handheld Computer	Hewlett-Packard	iPAQ hx4700	2	2007
Laptop Computer	Hewlett-Packard	N5470 with P/N F1781A AC Adapter	3	2002
Laptop Computer	Hewlett-Packard Compaq	8710w with HP PPP017H Series AC Adapter	2, 5	2008
Laptop Computer	Hewlett-Packard Compaq	NX6325 with HP 384019-002 AC Adapter	3	2008
Laptop Computer	Hewlett-Packard	nw8440 with 1. PPP014L-SA Series AC Adapter 2. HSTNN-IX02 Series Docking Station & HSTNN-LA01 Series AC Adaptor 3. Batteries	3 3 4	2009 2009 2009
Laptop Computer	Hewlett-Packard Compaq	nw9440 with HP PPP017H Series AC Adapter	4, 5	2008
Laptop Computer	Hewlett-Packard	ProBook 640 G1 384019-002 or 391172-001 AC Adapter	5	2018
Laptop Computer	Hewlett-Packard	Zbook 14 G8W46AV_1 ADP-65HB HC AC Adapter	3, 4	2016
Laptop Computer	Hewlett-Packard	Zbook 15 QEB13B 677764-002 AC Adapter	3, 4	2015
Laptop Computer	Hewlett-Packard	Zbook 15 G3 M9R67AV with ADP-150XB B AC Adapter	3, 4	2019
Laptop Computer	Hewlett-Packard	Zbook 15 G3 M9R69AV with ADP-150XB B AC Adapter	3, 4	2017

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Mini Computer	Hewlett Packard	Mini 2102 with 1. HP PA-1400-18HL 2. Internal Batteries	<b>5</b> <b>2</b>	<b>2010</b> <b>2010</b>
External Hard Drive	Hitachi	USB 2.0 H2250U, Any size	<b>3</b>	<b>2007</b>
Laptop Computer	IBI	Lunchbox ST-2000	<b>7</b>	<b>1999</b>
Laptop Computer	IBM ThinkPad	2647-2TU when used with P/N 02K6750 AC Adapter	<b>1</b>	<b>2002</b>
Laptop Computer	IBM ThinkPad	2653-H4U when used with P/N 02K6749 AC Adapter	<b>3</b>	<b>2002</b>
Laptop Computer	IBM Thinkpad	T42p with P/N 08K8208 AC Adapter or with Mini-Dock/ Port Replicator P/N 62P4551 and P/N 02K7091 AC Adapter	<b>3</b>	<b>2006</b>
Laptop Computer	IBM Lenovo	ThinkPad T61, Type 7658-01U with Lenovo 92P1113 AC Adapter	<b>3</b>	<b>2008</b>
Inverter*	Iris Technology	QP-250	<b>1</b>	<b>2000</b>
*Qualified by similarity to the Statpower Prowatt 250-24V AF, NSN 6130014966450 or 6130014966455				
Tablet PC	Itronix	GoBook IX300. Optional use with Delta ADP-90SB AC Adaptor	<b>2, 3</b>	<b>2005</b>
Tablet PC	Itronix	Duo-Touch IX325. Optional use with Delta ADP-90SB AC Adaptor	<b>2, 5</b>	<b>2006</b>
Laptop Computer	Kontron	2-A006-2039 when used with Powerbox P/N SPN-270-18 AC Adapter	<b>1</b>	<b>2002</b>
Rugged Portable Hard Drive	LaCie	120 GB using USB Interface	<b>2</b>	<b>2008</b>
Laptop Computer	Lenovo	X61 with 1. Model 92P1213 AC Power Adapter 2. Internal Batteries	<b>5</b> <b>4</b>	<b>2011</b> <b>2011</b>
USB LCD Monitor	Lilliput	UM-1010/C/T (*Powered over USB)	<b>*4</b>	<b>2012</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Power Converter used with Panasonic computers*	Lind Electronics	PA1650-1435, 12 Volt DC to 28 Volt DC input, 16 Volt DC output	1	2006
*Computer certification level specified under Notes associated with AC Adapter applies				
Power Converter used with Itronix computers*	Lind Electronics	IT1950-2274, 12 to 28 Volt DC input 19 Volt DC output	1	2008
*Computer certification level specified under Notes associated with AC Adapter applies				
Power Converter	Lind Electronics	DE2045-1319, 12 to 32 Volt DC input 20 Volt DC output	1	2010
Power Converter	Lind Electronics	MD1560-1662, 9 to 42 Volt DC input 15.6 Volt DC output	3	2010
Tablet Computer	M&A Technology	TUFFnote with 1. FSP FSP065-RAB AC/DC Adapter 2. Internal batteries	5	2011
			4	2011
Tablet Computer	M&A Technology	Companion ePad with 1. Delta ADP-40PH AC/DC Adapter 2. Internal batteries	3	2011
			2	2011
Laptop Computer	Macintosh	PowerBook G3	3	2000
Laptop Computer	Macintosh	PowerBook M5584 with Model G4 AC Adapter	3	2002
Laptop Computer	Micron	Transport Trek 2	3	1999
Laptop Computer	Micron	Transport XPE 166 MHz	5	1998
Tablet	Microsoft	Surface Pro 4, i5-6300U/2.4GHz 1. OD130C09U2559 AC/DC Adapter 2. Internal Batteries Meets RS103 for Fixed Wing Aircraft for Electronic Flight Bags (Internal Batteries), requires SPO Approval	5	2015
			2, S	2015
Tablet Computer	Motion Computing	CL900 with 1. Delta Electronics SADP-65NB 2. Internal Batteries	3	2011
			4	2011

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Tablet Computer	Motion Computing	J3500, T008 1. Internal Batteries	2	2013
Laptop Computer	Motion Computing	M1300-T002 with P/N ADP-50HH AC Adapter and P/N KB-1011US Keyboard	1	2003
Laptop Computer	Motion Computing	M1400 T003 with P/N ADP-50HH AC Adapter and P/N KB-1011US Keyboard	1	2004
Tablet Computer	Motorola	XOOM MZ600 with 1. FMP5632A AC Power Supply 2. Internal Batteries	5 2	2011 2011
Laptop Computer	NCS	ONE1 NSN-PN: NCS102029	4	2017
Laptop Computer	NEC	Versa6000H PC6200-81703 with P/N ADP74 AC Adapter	5	2000
Laptop Computer	NEC	V6250 with modified P/N ADP74 AC Adapter	3	1998
Personal Digital Assistant (PDA)	PalmOne	Tungsten P5	2	2008
LCD Monitor	Panasonic	CF-VDL01 with CF-AA1526 M4 AC Adapter	3	2002
LCD Monitor	Panasonic	CF-VDL02B with CF-AA1653A AC Adapter	5	2007
Laptop Computer	Panasonic	CF-18 series with one of the following B, C, D, E, F, G, H, K, L, N, or P with 1. CF-AA1623AM AC Adapter 2. Lind XE1645-2887 DC-DC Adapter 3. Lind PA1650-1435 DC-DC Adapter 4. Internal Batteries	1 1 1 2	2007-2008 2009 2009 2007-2008



This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Tablet Computer	Panasonic	CF-20 with		
		1. CF-AA6413C M3 AC Adaptor	<b>3</b>	<b>2016</b>
		2. Internal batteries	<b>2</b>	<b>2016</b>
Laptop Computer	Panasonic	CF-25 FJF4CAM with following AC adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, or CF-AA1639 M7	<b>3</b>	<b>2000</b>
Laptop Computer	Panasonic	CF-25 FJF4DAM with following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, or CF-AA1639 M7	<b>3</b>	<b>2000</b>
Laptop Computer	Panasonic	CF-25 FJF4DAM with following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, or CF-AA1639 M7	<b>3</b>	<b>2000</b>
Laptop Computer	Panasonic	CF-25 LJF8EAM with following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, or CF-AA1639 M7	<b>3</b>	<b>2000</b>
Laptop Computer	Panasonic	CF-27EB6GCAM with following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5 , or CF-AA1639 M7	<b>3</b>	<b>2000</b>
Laptop Computer	Panasonic	CF-27LBAGHCM with following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, CF-AA1639 M7, or CF-AA1639A M1	<b>3</b>	<b>2001</b>
Laptop Computer	Panasonic	CF-27LBAGHDM with following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, CF-AA1639 M7, or CF-AA1639A M1	<b>3</b>	<b>2001</b>

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Laptop Computer	Panasonic	CF-27LBAGHEM with the following AC Adapters: CF-25AA1526 M3, PS-CF27/71, CF-AA-159M5, CF-AA1639 M7, or CF-AA1639A M1	<b>3</b>	<b>2001</b>
Laptop Computer	Panasonic	CF-27RJ48AAM with CF-AA1639 M6 AC Adapter	<b>4</b>	<b>1999</b>
Laptop Computer	Panasonic	CF-27RJ48AAM with PS-CF27/71 AC Adapter	<b>3</b>	<b>1999</b>
Laptop Computer	Panasonic	CF-28MBFGZDM with CF-AA1639A M1 AC Adapter	<b>2, 3</b>	<b>2002</b>
Laptop Computer	Panasonic	CF-29ETP20KM with Lind PA1650-1435 or CF-AA1653A AC Adapter	<b>1</b>	<b>2006</b>
Laptop Computer	Panasonic	CF-29ETP20KM1 with CF-AA1639A M1 or CF-AA1653A AC Adapter	<b>2, 3, S</b>	<b>2004</b>
Laptop Computer	Panasonic	CF-29ETP20KM2 with CF-AA1633ASM or CF-AA1653A AC Adapter	<b>2, 3, S</b>	<b>2004</b>
Laptop Computer	Panasonic	CF-29H series with CF-AA1653A Adapter	<b>3</b>	<b>2006</b>
Laptop Computer	Panasonic	CF-29L series with CF-AA1653A AC Adapter	<b>2, 3</b>	<b>2005</b>
Laptop Computer	Panasonic	CF-29N series with CF-AA1653A AC Adapter	<b>1</b>	<b>2006</b>
Laptop Computer	Panasonic	CF-30 Series with one of the following letters immediately after "CF-30": C or D with CF-AA1653A or Lind AC90-MSIS (EDAC EA10953A) AC Adapter	<b>2, 3</b>	<b>2004-2007</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Laptop Computer	Panasonic	CF-30 Series with one of the following letters immediately after “CF-30”: F, G, J, K, L, Q, or Y with 1. CF-AA1653A AC Adaptor 2. Lind AC90-MSIS (EDAC EA10953A) AC Adapter 3. Internal Batteries	1 1 2	2008 2009 2008
Laptop Computer	Panasonic	CF-31 Series with one of the following letters immediately after “CF-31” and the listed processor: A, B, E, F, G, T or Y Intel Core i5 520M 2.40 GHz 1. CF-AA5713A AC Adaptor 2. Internal Batteries	1 2	2010 2010
Laptop Computer	Panasonic	CF-31 Series with one of the following letters immediately after “CF-31” and the listed processor: J, K, P, Q or T Intel Core i5 2520M 2.50 GHz 1. CF-AA5713A AC Adaptor 2. Internal Batteries	3 4	2011 2011
Laptop Computer	Panasonic	CF-31S Series with Intel Core i5 3320M 2.60 GHz processor 1. CF-AA5713A AC Adaptor 2. Internal Batteries	3 2	2014 2014
Laptop Computer	Panasonic	CF-33 VEK331LM 1. CF-AA5713AM AC Adaptor 2. Internal Batteries	3 2	2017 2017
Laptop Computer	Panasonic	CF-33 VEK331LM 1. CF-AA5713A AC Adaptor 2. Internal Batteries	3 2	2019 2019
Laptop Computer	Panasonic	200 MHz CF-35PJJ8CAM with CF- AA1526M4 AC Adapter	2, 3	1998
Laptop Computer	Panasonic	CF-48R4GDUEM with CF-AA1639A M1 AC Adapter	3	2003
Laptop Computer	Panasonic	CF-48G4KFFKM with CF-AA1639M7 AC Adapter	5	2005

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Laptop Computer	Panasonic	CF-51 Series with one of the following letters immediately after “CF-51”: B or K 1. CF-AA1653A AC Adaptor 2. Internal Batteries	3 4	2005 2005
Laptop Computer	Panasonic	CF-51 Series with one of the following letters immediately after “CF-51 ” J, P or Q on Internal Batteries	2	2005- 2007
Laptop Computer	Panasonic	CF-52 Series with one of the following letters immediately after “CF-52 ” N or T: 1. CF-AA1653A AC Adaptor 2. Internal Batteries	5,6 1	2015 2015
Laptop Computer	Panasonic	CF-54 Series with 1. CF-AA5713A AC Adapter 2. Internal Batteries	3 2	2017 2017
Laptop Computer	Panasonic	CF-71GYAGBAM with CF-AA1639 M6 AC Adapter	4	1999
Laptop Computer	Panasonic	CF-71GYAGBAM with PS-CF27/71 AC Adapter	3	1999
Laptop Computer	Panasonic	CF-71MYCKDCM with CF-AA1639A M1 AC Adapter	3	2000
Laptop Computer	Panasonic	CF-71MYCKDDM with CF-AA1639A M1 AC Adapter	3	2000
Laptop Computer	Panasonic	CF-71MYCKDEM with CF-AA1639A M1 AC Adapter	3	2000
Laptop Computer	Panasonic	CF-72TCJUJZPM with CF-AA1639A M1 AC Adapter	1	2002
Laptop Computer	Panasonic	CF-73ECNTXKM with CF-AA1653A J1 AC Adapter	3	2003
Laptop Computer	Panasonic	CF-73J Series with CF-AA1653A AC Adapter	5	2009
Laptop Computer	Panasonic	CF-73QCQTSKM with CF-AA1653A AC Adapter	3	2004

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Laptop Computer	Panasonic	CF-73T Series with CF-AA1653A AC Adapter	3	2008
Laptop Computer	Panasonic	CF-73XCVASBM with CF-AA1653A AC Adapter	3	2006
Laptop Computer	Panasonic	CF-73YCVTSBM with CF-AA1653A Ac Adapter	3	2005
Laptop Computer	Panasonic	CF-74D Series with CF-AA1623A Ac Adapter	3	2008
Laptop Computer	Panasonic	CF-74G Series with CF-AA1683A Ac Adapter	3	2007
Laptop Computer	Panasonic	CF-74H Series with CF-AA1683A Ac Adapter	3	2008
Tablet Computer	Panasonic	CF-H1 Series with 1. CF-AA1633A AC Adaptor 2. Internal Batteries	5 4	2010 2010
Tablet Computer	Panasonic	CF-H2 Series with one of the following letters immediately after “CF-H2” and the listed processor: A or D, Intel Core i5-2557M 1.70 GHz 1. CF-AA6373A AC Adaptor 2. Internal Batteries	5 4	2011 2011
Laptop Computer	Panasonic	CF-W2 AWAZZDM with CF-AA1623A AC Adapter	2, 3, S	2004
Laptop Computer	Panasonic	CF-W2 DWAZZKM with CF-AA1623A AC Adapter	2, 3, S	2004
Laptop Computer	Panasonic	CF-W7B Series with CF-AA1633A AC Adapter	3	2008
Laptop Computer	Panasonic	CF-YCZC3007B with CF-AA1653A or Lind AC90-MSIS (EDAC EA10953A) AC Adapter	1, 2	2009

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Tablet Computer	Panasonic	FZ-55 with		
		1. CF-AA5713A AC Adaptor	3	2022
		2. Internal batteries	2	2022
Tablet Computer	Panasonic	FZ-G1 with		
		1. JT-B1-AD-000U AC Adaptor	3	2013
		2. Internal batteries	2	2013
Tablet Computer	Panasonic	FZ-G1MK3 with		
		1. CF-AA64B3C J1 AC Adaptor	3	2015
		2. Internal batteries	2	2015
Tablet Computer	Panasonic	FZ-G1MK2 with		
		1. CF-AA5713A M2 AC Adaptor	3	2015
		2. Internal batteries	2	2015
Tablet Computer	Panasonic	FZ-M1 with		
		1. CF-AA6413C M1 AC Adaptor	3	2015
		2. Internal batteries	2	2015
Tablet Computer	Panasonic	JT-B1 Series with one of the following letters immediately after "JT-B1" A, B, C, or D		
		1. JT-B1-AD-000U AC Adaptor	3	2013
		2. Internal batteries	2	2013
Backlit Keyboard	Panasonic	KAG9002-1001/AR	3	2002
Laptop Computer	RDI	U20-14-6-128P (With certified Power Supply)	5	1999
External Hard Drive	Seagate	USB 2.0 FreeAgent Go, Any size	3	2007
Tablet PC, Slate	Sahara	SG22 with		
		1. Li Shin 0335A2065 AC Adapter	3	2009
		2. Lind PA1650-1435 DC-DC Adapter	3	2009
		3. Lind XE1645-2887 DC-DC Adapter	3	2009
		4. Internal Batteries	4	2009
Laptop Computer	Sony	PCG-8402 with PCGA-PSX1 Mini Docking Station and PCGA-ACX1 AC Adapter	3	2001
Inverter	Statpower	Prowatt 250-24V (Xantrex Technologies)	7	2000

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Inverter	Statpower	Prowatt 250-24V AF (Xantrex Technologies) NSN: 6130219206677	<b>1</b>	<b>2000</b>
Handheld Computer	Symbol	MC70	<b>2</b>	<b>2007</b>
Handheld Computer	Symbol	SPT1740-ZRG804US with S-8392 AC Adapter	<b>2, 3</b>	<b>2000</b>
PDA	Tadiran	R PDA Type B with 17053-2 AC Adapter.	<b>1</b>	<b>2004</b>
Laptop Computer	Toshiba	Portege M750 and M780 with 1. PA3755U-1ACA AC/DC Adapter 2. Batteries	<b>3</b> <b>4</b>	<b>2009</b> <b>2009</b>
Laptop Computer	Toshiba	Portege R30-A with 1. PA3917U-1ACA AC/DC Adapter 2. Batteries	<b>3</b> <b>2</b>	<b>2015</b> <b>2015</b>
Laptop Computer	Toshiba	Portege R830 with 1. PA3714U-1ACA AC/DC Adapter 2. Batteries	<b>3</b> <b>4</b>	<b>2011</b> <b>2011</b>
Laptop Computer	Toshiba	Satellite P500 with 1. PA3716U-1ACA AC/DC Adapter 2. Batteries	<b>3</b> <b>4</b>	<b>2009</b> <b>2009</b>
Laptop Computer	Toshiba	Satellite P770 with 1. PA-1121-08 AC Adapter 2. Batteries	<b>3</b> <b>4</b>	<b>2011</b> <b>2011</b>
External Hard Drive	Western Digital	USB 2.0 WD Passport, Any size	<b>5</b>	<b>2007</b>
Computer Monitor	Xenarc	700TSV or 702TSVwith 1. EDAC EA1015G-2U AC Adaptor 2. Lind XE XE1645-2887	<b>5</b> <b>5</b>	<b>2008</b> <b>2009</b>
Tablet Computer	Xplore Technologies	iX101B1 1. FSP Group FSP065-REB Switching Power Adaptor 2. Internal Batteries	<b>5</b> <b>4</b>	<b>2014</b> <b>2014</b>
Tablet Computer	Xplore Technologies	iX104C2 with LI Shin International Enterprise Corp 0335A2065 AC Adapter	<b>1</b>	<b>2006</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Tablet Computer	Xplore Technologies	iX104C3 with LI Shin International Enterprise Corp 0335A2065 AC Adapter	<b>1</b>	<b>2006</b>
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This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

[Return to Section Listing](#)

### SECTION 3

#### AUDIO-VISUAL EQUIPMENT

Items are sorted in ascending alphabetical order first by Company and then by Model

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
Charger/Power Supply, Tandem	Anton Bauer	8475-0067 when charging batteries	3	2009
Recorder, Video Cassette	Ampex	CVR-50	4	
Recorder, Video Cassette	Ampex	VPR-20	3	
Monitor, Video	Amtron	TR-5P	3	
Fast Battery Charger	Anton Bauer	MP4D	5	2000
Camera, Still, Digital	Associated Press	NC-2000	1	1997
Microphone Power Supply	Bruel & Kjaer	2804	1	2002
Compact Battery Charger	Canon	CA-900A	3	2000
Flash	Canon	DS40113	2	2019
Camera, Digital SLR	Canon	EOS-1Ds	2	2009
		Batteries	3	2009
		AC-E4 AC Adapter & DR-E4		
		DC Coupler		
Camera, Digital Video	Canon	EOS C100	4	2013
Camera, Camcorder	Canon	EOS C100 Mark II	4	2016
Camera, Camcorder	Canon	EOS C300 Mark II	4	2016
Camera, Digital SLR	Canon	EOS-1DX	2	2016
Camera, Digital SLR	Canon	EOS-1DX Mark II	2	2016
Camera, Digital SLR	Canon	EOS-1D Xs	4	2013

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera, Digital SLR	Canon	EOS-5D Mark III	4	2013
Camera, Digital SLR	Canon	EOS-5D Mark IV	1	2013
Camera, Digital SLR	Canon	EOS 5D Batteries	2	2009
Camera, Digital SLR	Canon	EOS-7D Mark II	2	2016
Camera, Digital SLR	Canon	EOS-70D	2	2016
Camera, Digital SLR	Canon	EOS-80D	2	2016
Camera, Digital SLR	Canon	EOS R	1	2019
GPS Receiver	Canon	GP-E2	4	2015
Battery Charger	Canon	CA 570	3	2016
Battery Charger	Canon	CA 930	3	2016
Battery Charger	Canon	CG A10	5	2016
Battery Charger	Canon	CG 940	3	2016
Battery Charger	Canon	LCE4	3	2016
Battery Charger	Canon	LCE4N	3	2016
Battery Charger	Canon	LCE6	1	2016
Battery Charger	Canon	LC19	3	2016
Camera, Video HI-8	Canon	L2	2	1997
Battery Charger	Canon	LCE4	3	2009
Battery Charger	Canon	LCE6	1	2009
Digital Multi-Purpose High Definition Camera ( <b>Requires</b> external battery)	Canon	ME20F-SH with HL10DS External Battery with ATOMOS Shogun Display	3 6	2019 2019
Camera-Cassette Recorder	Canon	UCS5	4	1995
Camcorder	Canon	VIXIA HF10	2	2008

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camcorder	Canon	VIXIA HF R200	4	2012
Camcorder	Canon	VIXIA mini	2	2013
Recorder, Video Cassette	Canon	VR-30	3	
Recorder, Video Cassette	Canon	VR-308	3	
Camcorder	Canon	XA20	4	2013
Camcorder	Canon	XA25	4	2013
Camcorder	Canon	XA35	2	2016
Camcorder	Canon	XF200	2	2016
Camcorder	Canon	XF205	2	2016
Digital Video Camera	Canon	XL1	4	2000
Digital Video Camera w/ Night vision module	Canon/ Astroscope	XL1 9350BBAXL	5	2000
Camera, high Definition Video	Coleman	Vision HD Sports Eyewear	4	2016
Camera, High Definition Video	Contour+	1500	2	2011
Nomad Jukebox	Creative Labs	DAPAG01 Battery operation	2	2002
Night Vision Device	Dark Invader	702-DS	2	1997
Recorder Audio Cassette	Delmar	509A	4	1995
Astroscope	Electrophysics	9300VL	4	1997
Astroscope	Electrophysics	9323B	4	1997
Camera, Video/CCU (Micro)	Elmo	MN-401X	1	1997

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera, Video/CCU (Micro)	Elmo	MNL12H with Elmo CC421E Camera Control Unit, Sony DSR-V10 Digital Video Cassette Recorder (with Sony Model NP-F960 Lithium Battery), Anton Bauer TrimPac14 Battery	1	2004
Camera, High Speed Digital Video Camera	Fastec Imaging	Ranger RAHRCM-F	1	2006
Camera, 360° HD Video	Garmin	VIRB 360	2	2019
Camera, High Definition Video	GoPro	Hero YHDC5170 with YHD517L LCD screen	4	2011
Camera, High Definition Video	GoPro	Hero2 with AWALC-001 Wall Charger or Internal Batteries and		
		1. No Accessories	3, 4	2012
		2. YHD517L LCD BacPac	3, 4	2012
		3. YHD517B Battery BacPac	3, 4	2012
		4. AWIFI-001 WiFi BacPac & WiFi Remote Control	3, 4	2012
Camera, High Definition Video	GoPro	Hero3+: Black Edition Internal Batteries and Wi-Fi controller	2	2012
Camera, High Definition Video	GoPro	Hero4 on Internal Batteries with		
		1. No Accessories	2	2012
		2. WiFi Remote	2	2012
Camera, High Definition Video	GoPro	Hero4 Black on Internal Batteries with WiFi Remote	2	2015

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera, High Definition Video	GoPro	Hero4 Session with 1. Internal Batteries	2	2016
		2. Power Adapter ITE Model 19707	5	2016
Camera, High Definition Video	GoPro	Hero4 Session with 1. Internal Batteries	2	2018
		2. Installed Alti-Force Sensor Pack P/N SP30	2	2018
Camera, High Definition Video	GoPro	Hero5 Black on Internal Batteries without any connection (HDMI/USB)	2	2017
Camera, High Definition Video	GoPro	Hero6 Gray on Internal Batteries without any connection (HDMI/USB)	2	2019
Camera, High Definition Video	GoPro	Hero7 Black on Internal Batteries without any connection (HDMI/USB)	2	2020
Camera, High Definition Video	GoPro	Hero8 Black on Internal Batteries without any connection (HDMI/USB)	2	2020
Camera, High Definition Video	GoPro	Hero9 Black on Internal Batteries without any connection (HDMI/USB)	2	2020
Camera, Cassette Recorder	Hitachi	FP-40SU	3	
Camera, Cassette Recorder	Hitachi	SK-90	3	
Camera-Cassette Recorder	Hitachi	VM-5200A	4	
Camera-Cassette Recorder	Hitachi	VM-6000A	4	
Camera-Cassette Recorder	Hitachi	6000A	4	
Camera, High Speed	IDT	Y-Series, 5 Battery Operation	2	2009
Battery Charger	IDX	VL-2	5	2008
Battery Charger	JVC	AA-VF8	1	2009
Camera-Cassette Recorder	JVC	GF-S550	4	1996
Camera, Cass Recorder Digital	JVC	GR-DV1	4	1997
Camera-Cassette Recorder	JVC	GX-N6U	4	

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera-Cassette Recorder	JVC	GX-N7	4	
Camera-Cassette Recorder	JVC	GZ-S3U	4	
DTE Recorder	JVC	ProHD DR-HD100 with Ktec KSAFE1500120T1M2 AC Adapter	3	2008
HD Camera Recorder	JVC	GY-HD110U using 1. Batteries 2. AA-P30U Adapter Charger	2	2008
			3	2008
Camera Recorder, HD Memory Card	JVC	GY-HM100U using 1. Batteries 2. AP-V21M AC Adapter	2	2009
			3	2009
HD Camera Recorder	JVC	GY-HD200U	2	2008
Recorder, Video Cassette	JVC	HR-C3U	3	
Recorder, Video Cassette	JVC	HR-S10U	3	
Camera, Video, Digital	JVC	KY-D29/BR-DV10	2	1997
Monitor, Video	JVC	TM-P3U	3	
Camera, Still, Digital	Kodak	DCS-420	1	1997
Mixer, Portable Video TV	MMM	111	3	
Recorder, Digital	M-Audio	Microtrack 24/96	3	2006
Pager	Motorola	Bravo FLX	2	1998
24 Bit IEPE Analog Input	National Instruments	NI 9233	5	2007
24 Bit Simultaneous Analog Input	National Instruments	NI 9239	5	2007
Chassis	National Instruments	cDAQ-9172 with XP Power HUP 15A-12 AC Adapter	5	2007
Battery Charger	Nikon	MH-18a	3	2011

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Battery Charger	Nikon	MH-22	3	2011
Battery Charger	Nikon	MH-25	3	2015
Battery Charger	Nikon	MH-25a	3	2021
Battery Charger	Nikon	MH-26a	3	2016
Camera, Digital Still	Nikon	D-1	2	2001
Camera, Digital	Nikon	D-1X	2	2002
Camera, Digital	Nikon	D-2 Series	2	2004
Camera, Digital	Nikon	D3	2	2008
Camera, Digital	Nikon	D3s	2	2011
Camera, Digital	Nikon	D4	4	2013
Camera, Digital	Nikon	D4s	2	2015
Camera, Digital	Nikon	D5-b	2	2016
Camera, Digital	Nikon	D5A	2	2019
Camera, Digital	Nikon	D60	2	2008
Camera, Digital	Nikon	D90	2	2011
Camera, Digital	Nikon	D300	2	2008
Camera, Digital	Nikon	D600	4	2013
Camera, Digital	Nikon	D610	2	2015
Camera, Digital	Nikon	D700	2	2011
Camera, Digital	Nikon	D750	4	2016
Camera, Digital	Nikon	D800	2	2013
Camera, Digital	Nikon	D810	2	2019
Camera, Digital	Nikon	D850	2	2019

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera Digital	Nikon	D7000	2	2011
Camera, Digital Still	Nikon	DCS620	1	2000
Camera, 35 mm	Nikon	F100	1	2000
Camera, 35MM	Nikon	F5	1	2000
Camera, 35mm	Nikon	MD-12	3	1997
Flash Unit	Nikon	SB25	2	1997
Flash Unit	Nikon	SB26	2	1997
Flash Unit	Nikon	SB28	1	2000
Flash Unit	Nikon	SB-5000	2	2016
Flash Unit	Nikon	SB80DX	2	2002
Flash Unit	Nikon	SB-700	2	2011
Flash Unit	Nikon	SB-900	2	2011
Flash Unit	Nikon	SB-910	2	2013
Camera Digital	Nikon	Z6	2	2019
Camera Digital	Nikon	Z6II	2	2021
Recorder, Video Cassette	Panasonic	AG-3P	4	1994
Recorder, Video Cassette	Panasonic	AG-720P with AG-B210 AC Adapter	5	1998
Recorder, Video Cassette	Panasonic	AG-2400	3	
Camera-Cassette Recorder	Panasonic	AG-6400	4	
Recorder, Video Cassette	Panasonic	AG-7400	4	
Camera, Cass Recorder Digital	Panasonic	AGEZ1UXL	4	1997
Camera	Panasonic	AG-HMC40P	2	2010

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera/Recorder	Panasonic	AG-HCK10G Camera and AG-HMR10 Recorder Combination	4	2010
Camcorder, P2 HD Solid-State	Panasonic	AG-HPX170	2	2009
		Batteries DE-A20 AC Adaptor	3	2009
Camcorder, P2 HD Solid State	Panasonic	AG-HPX300	2	2009
		Batteries Anton Bauer 8475-0067 Tandem Charger/Power Supply	3	2009
VCR/ Camera, Video, Digital	Panasonic/Sony	AJ-D90P/DXC-D35	4	2001
VCR/ Camera, Video, Digital	Panasonic/Sony	AJ-D90W/ DXCD30	6	2000
Camera, Video, Digital	Panasonic	AJ-D700	4	1997
Camera, Video, Digital	Panasonic	AJ-D900WP	4	2000
Camera, Video, Digital	Panasonic	AJ-D910WAP	4	2001
AC Adaptor	Panasonic	DE-A20 when charging batteries	3	2009
Camera-Cassette Recorder	Panasonic	F2	4	
Palmcorder	Panasonic	PV-L658D	2	1999
Microcassette Recorder	Panasonic	RN-502	2	1999
Camera CCTV	Panasonic	WV-BP312	3	
Camera, Cassette Recorder	Panasonic	WV-3050	3	
Sensor Signal Conditioner	PCB Piezotronics	481A02	1	2002
Character Generator	Portak	KBD-2DX	3	
Camera	PULNiX	TMC-7	4	
Dosimeter	Quest	Q-400	3	

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Calibrator	Quest Technologies	QC-20	1	2002
Recorder Audio Cassette	Radio Shack	CT-69	4	1996
Camera-Cassette Recorder	RCA	PR0883HB	4	
Camera-Cassette Recorder	RCA	TK-76	4	
Camera, Cassette Recorder	RCA	TK-86	3	
Camera-Cassette Recorder	RCA	TK-760	4	
Camera HD Video	Red	Epic M Dragon S/N: 102A6E57C	4	2018
Camera HD Video	Red	Epic Weapon with Helium Sensor S/N:13026B57E	4	2018
Camera HD Video	Red	Scarlet X Dragon S/N: 102A74B8C	4	2018
Camera HD Video	ReplayXD	Prime X with 1. Internal Batteries 2. ITE Power Supply, Model 19707	2 5	2016 2016
Camera-Cassette Recorder	Sanyo	VDC-3860	4	
Digital Camera, Night Vision Color	SiOnyx	Aurora (Model C011500)	2	2020
Digital Camera, Night Vision Color	SiOnyx	Aurora (Model CDV-100C)	2	2021
Digital Camera, Night Vision Color	SiOnyx	Aurora Pro (Model C011300)	2	2020
Camera, Digital	Sony	a7S III, Model ILCE-7SM3 WW271448	2	2021
Camera, Power Supply	Sony	AC-500/500CE	3	
Camera, Power Supply	Sony	AC-5000	3	
AC Adaptor/Charger	Sony	AC-VQH10 when charging batteries	3	2009

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

AC Adaptor/Charger	Sony	AC-VQ1051D when charging batteries	3	2019
AC Adaptor/Charger	Sony	BC-VW1 when charging batteries	1	2016
Camera, Digital	Sony	$\alpha$ 7R II, Model ILCE-7RM2 WW325951	2	2016
Camera, Digital	Sony	$\alpha$ 7S II, Model ILCE-7SM2 WW898259	2	2016
Battery Charger	Sony	BC-QZ1	1	2021
AC Adaptor/Charger	Sony	BC-U1 when charging batteries	3	2013
Camera, Cassette Recorder	Sony	BVP-1	3	
Camera, Cassette Recorder	Sony	BVP-110	3	
Camera-Cassette Recorder	Sony	BVP-250	4	
Camera, Digital	Sony	Cyber-Shot	1	2005
Recorder, Video Cassette	Sony	BVU-50	3	
Recorder, Video Cassette	Sony	BVU-100	3	
Recorder, Video Cassette	Sony	BVU-110	4	
Recorder, Video Cassette	Sony	BVV-1	3	
Recorder, Video Cassette	Sony	BVV-1A	4	
Recorder, Video Cassette	Sony	BVW-25	3	
Camera, Video, Digital	Sony	DCR-PC9	2	2005
Camera, Digital	Sony	DSC-RX100M7 (Exmor RS/4k) Cyber-Shot		
		1. USB charging cable	1	2020
		2. Internal Batteries	1	2020
Camera, Video, Digital	Sony	DSR-130	4	1997
Camera, Video, Digital	Sony	DSR-PD150	2	2002

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera, Video, Digital	Sony	DSR-PD150 with Sony AC-V700 AC Adapter (with Sony Model NP-F960 Lithium Battery), Sony ECM-NV Microphone, Electrophysics Model 9350 AstroScope	1	2004
Camera, Video, Digital	Sony	DSR-200	4	1997
Camera, Video, Digital/ VCR	Sony/Panasonic	DXC-D30/AJ-D90W	6	2000
Camera, Video, Digital/VCR	Sony/Panasonic	DXC-D35/AJ-D90P	4	2001
Camera, Video	Sony	DXC-537	4	1997
Camera-Cassette Recorder	Sony	EVO-150TR	4	
Recorder, Video Cassette	Sony	EVO-540	1	1997
Camera-Cassette Recorder	Sony	EVW-300K	4	1995
Camcorder	Sony	EX1R with 1. BCU1 AC Adaptor/Charger 2. Internal Batteries	5 6	2011 2011
Walkman, Video	Sony	GV-8	4	
Walkman, Video	Sony	GV-200	4	
Watchman, Video Recorder	Sony	GV-D800	3	2006
Walkman, Video	Sony	GV-D900	2	2001
Handycam Camcorder	Sony	HDR-HC7	2	2008
Handycam Camcorder	Sony	HDR-CX 700V	2	2012

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera Recorder, Digital HD Video	Sony	HXR-MC1 using		
		1. Batteries	4	2009
		2. AC-L200C AC Adaptor	3	2009
		3. AC-VQH10 AC Adaptor/Charger	3	2009
Video Camera Recorder Digital HD	Sony	NEX-FS700R Battery Pack	4	2014
Camcorder	Sony	NEX-FS700U		
		1. Battery Pack	4	2014
		2. AC-PW10 AC Adapter	3	2014
Recorder, Linear PCM	Sony	PCM-D100 Sound Professionals Dual Channel Microphone Power Supply	1	2015
Recorder, Digital Cassette	Sony	PC208A, Internal Batteries	2	1997
Camcorder, Solid-State Memory	Sony	PMW-200, Internal Batteries	3	2013
Camcorder, XDCAM EX Compact Full HD Solid State	Sony	PMW-F5 using Batteries	2	2019
Camcorder, XDCAM EX Compact Full HD Solid State	Sony	PMW-F55 using Batteries	4	2019
Camcorder, XDCAM EX Compact Full HD	Sony	PMW-EX1 using		
		1. Batteries	2	2009
		2. BC-U1 AC Adapter/Charger	3	2009
Camcorder, XDCAM EX Semi-Shoulder Mount	Sony	PMW-EX3 using		
		1. Batteries	2	2009
		2. BC-U1 AC Adapter/Charger	3	2009
Recorder, Video	Sony	PVV-1 Beta SP	3	
Recorder, Video	Sony	PVV-3	4	1997
Recorder Video HI-8 MM	Sony	PVV 9000	6	1997
Camcorder,	Sony	PXW-X180		
		1. Batteries	4	2015
		2. ACDP-060S01 AC Adapter	5	2015

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camcorder,	Sony	PXW-X200 XDCAM XAVC HD422		
		1. Batteries	4	2015
		2. ACDP-060S01 AC Adapter	5	2015
Recorder Audio Cassette	Sony (Walkman)	TCD-D3	4	
Recorder Audio Cassette	Sony (Walkman)	TCD-D8	2	1996
AC Adaptor/Charger	Sony	VL-2000S when charging batteries	3	2019
Recorder, Video Cassette	Sony	VO-2600	3	
Recorder, Video Cassette	Sony	VO-3800	3	
Recorder, Video Cassette	Sony	VO-4800	3	
Camera, Video, Digital HI-8	Sony	VX-1000	4	1997
Camera-Cassette Recorder	Sony	XC-38	4	
Monitor, Waveform	Tektronix	528A	3	
Vectorscope	Tektronix	1420	3	
Monitor, Waveform	Tektronix	1480	3	
Microwave, TX/RX System	Terra	TCM 601/607	3	
Time Code Generator	Trak Systems	8390-37 with EL Power Model CH12FA300 Float Charger	5	2002
Video Display	Video Devices	PIX-E5	4	2019
Camera	Vision Research	Phantom MIROEX4-4096MC		
		1. Internal Batteries	4	2013
		2. External 115 V 60 Hz, Adapter VRI-2MA5004	5	2013
		3. 28 V DC	5	2013
Camera	Vision Research	Phantom V341 High-Speed Camera with VRI-PWR-SUPPLY-220W-FIS power supply, VRI-RCU Remote Control Unit, and VRI-BOB-RCU-27 Break-Out Box	5	2014 (Flight Testing Only)

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera	Vision Research	Phantom Miro LC320S High-Speed Camera		
		1. Battery Pack	<b>4</b>	<b>2014</b>
		2. VRI-PWR-SUPPLY-65W power Supply	<b>3</b>	<b>2014</b>
2D/3D Virtual Reality High Definition Camera	Vuze	HETVZ-XR	<b>2</b>	<b>2019</b>
3D Virtual Reality High Definition Camera	Vuze	HETVZ-P	<b>2</b>	<b>2019</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

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## SECTION 4

### COMMUNICATIONS EQUIPMENT

Items are sorted in ascending alphabetical order first by Company and then by Model

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
Ethernet Power Converter	3Com	3CRNJ240FXSCTAA-75 (240SC-LX1Q5CC5C166E marked on case)	5	2006
ISDN Inverse Multiplexer	Adtran	ISU 512	5	2006
COMSEC Module	Allied Signal	KIV-7HS KG-84	3	2007
Wireless Base Station	Apple	Airport Express A1392	6	2014
Controller/Access Point	Aruba	650 Controller and AP-105 Access Point	5	2012
Ethernet/Fiber Converter	Black Box	Miniature Media Converter	5	2006
Firewall	Cisco	PIX 501 with Model ADP-15VB AC Adapter	3	2007
IP Phone	Cisco	CP7970G with Delta Electronics EADP-18CB AC/DC Adapter	5	2010
Router	Cisco	1800 with either Hipro HP-OL081T03P AC Adapter or direct 115 Volt, 60 Hz	5	2006
Router	Cisco	2800 Series (2811 tested)	1	2006
Router	Cisco	2901	5	2011
Router	Cisco	3800 Series (3825 tested)	5	2010
Router	Cisco	881 with Delta Electronics EADP-60KB AC/DC Adapter	5	2010

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Router	Cisco	Linksys EA4200 with Hon-Kwang Power Supply HK-AX-120A200-DH	3	2012
Router	Cisco	Linksys EA4500 with Solytech CAD2412 AC Adapter	3	2013
Switch	Cisco	Catalyst WS-C356024TS-E, 24 Port	3	2009
Switch	Cisco	2940	5	2010
Router	Cradlepoint	MBR1000 with Leader Electronics MU18-2120150-A1 Power Supply	5	2010
Server	Crystal	RS235	3	2009
Mobile VoIP Gateway	Dtech Labs	WHISPER 900 with Cincon TR100A240 AC Adapter	5	2007
Accelerator	Expand	3000E	3	2006
Switch	GarrettCom	6K8	5	2006
Secure Fax gateway	Gateway	90si Secure Fax Gateway Elpac FWC1805F Power Supply	5	2013
In-Line Network Encryptor	General Dynamics	KG-235 with APS40DTM-035120 Power Adaptor	3	2006
Encryption Device	General Dynamics	TACLANE KG-175D with XP Power MCM60US12-D9 Power Adapter	5	2010
Encryption Device	Harris	KIV-54 with ITE PW128RA2400B02 Power Supply	5	2010
ISDN Terminal Adapter	Klas	TA and TA II with SAW12-05-400 Switching Power Supply	3	2006
Communications kit	Klas	VoyagerECK with VoyagerERm and VoyagerESm modules, with KVMA-MM-2914-0.1-0001 Power Adapter	5	2014
Secure Terminal	L3	STE with SC300 ITE Power Supply	3	2006
Broadband Firewall Router	Linksys	BEFSX41 with AM-1201000D41 Power Adapter	3	2006

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Camera	Logitech	860-000109, USB interface	<b>5</b>	<b>2010</b>
Server	Moxa	6610-32	<b>5</b>	<b>2010</b>
Controlled Cryptographic Item	Mykotronx	KIV-7 HSB with APS AD-740U-1050 Power Supply	<b>5</b>	<b>2006</b>
Fax	Panasonic	UF-6200-AU Fax Machine	<b>5</b>	<b>2013</b>
AC Adapter for Fans	Phihong	91-59439	<b>3</b>	<b>2006</b>
Video Teleconference (VTC) Terminal	Polycom	Base Box Mobile Responder	<b>3</b>	<b>2007</b>
Converter RS530 to IP	RAD	Tiny Bridge with SinoAmerician SA10-12080 AC Adapter	<b>3</b>	<b>2006</b>
VPN Router	SonicWALL	TZ170 10 Node with DSA-0151D-05 Switching Power Supply	<b>3</b>	<b>2006</b>
WAN Optimizer	Riverbed	Steelhead Appliance SHA-00300	<b>3</b>	<b>2009</b>
VTC Terminal	Tandberg	TA2880 with International Power Sources CUP70-12 Power Supply	<b>3</b>	<b>2006</b>
VTC Terminal	Tandberg	1700	<b>3</b>	<b>2009</b>
Router	TRENDnet	TEW-812DRU AC1750 with S05-024-0120-02000U AC Power Adapter	<b>5</b>	<b>2016</b>
Encryptor	ViaSat	AltaSec KG-250 with 47358-VCD-017746-0000 AC Power Adapter	<b>3</b>	<b>2006</b>
Encryptor	ViaSat	AltaSec KG-250 with L3 Communications Dual Rackmount Enclosure ACS2510002	<b>3</b>	<b>2009</b>
Multiplexer	Vocality	V50 with PowerSolver PSG-60-12-02 AC Adapter	<b>3</b>	<b>2006</b>
Mobile Router	Western Datacom	WA1608U with Cincon TR70A12 AC Adapter	<b>3</b>	<b>2006</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

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## SECTION 5

### GLOBAL POSITIONING SYSTEM (GPS) RECEIVERS

Items are sorted in ascending alphabetical order first by Company and then by Model

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
GPS	Bad Elf	Bad Elf GPS for Lightning connector	2	2014
GPS	Bad Elf	Bad Elf GPS for 30 pin connector	2	2014
GPS	Bad Elf	Bad Elf GPS Pro (Bluetooth)	2	2014
GPS	Bad Elf	Bad Elf GPS Pro + (Bluetooth)	2	2014
GPS	Bendix-King	KLX100	3	1996
GPS	Bionics Avionics	FLYSIGHT v1.2g	2	2022
GPS Receiver USB	Compaq	TCF1358 when used with Compaq iPAQ H3870 Pocket PC (internal battery power or P/N PCS10A-050 AC Adapter)	1	2002
GPS Data Recorder	EW Systems	Micro IDR Model 1	1	2002
GPS	Dual Electronics	XGPS160	4	2014
GPS	Fugro	3000LR12 Omnistar (When used with certified power supply)	3	1999
GPS	Garmin	Aera 560 including XM Satellite		
		1. AC Adapter PSA15R-120P, Switching Power Supply	3	2010
		2. 28 VDC Aircraft Power	1	2010
		3. Batteries	2	2010
GPS	Garmin	Aera 796 including GXM40 XM Satellite antenna and GA25 MCX remote antenna		
		1. Battery operation	4	2013
		2. Delta ADP-36JH AC/DC Adapter	5	2013

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

ADS-B Receiver	Garmin	GDL 39 with Bluetooth Connected to Garmin 696 GPS Receiver 1. Internal Batteries	<b>6</b>	<b>2013</b>
GPS	Garmin	GPS III Pilot	<b>2</b>	<b>1998</b>
GPS	Garmin	GPS V Model 011-00679-00	<b>1</b>	<b>2004</b>
GPS	Garmin	GPS 12XL	<b>1</b>	<b>2000</b>
GPS	Garmin	GPS 15 Card with MKD48091500 AC Adaptor and Serial Interface Connection	<b>5</b>	<b>2009</b>
GPS	Garmin	GPS 18	<b>1</b>	<b>2006</b>
GPS	Garmin	GPS 35-USB 011-00261-02	<b>3</b>	<b>2002</b>
GPS	Garmin	GPS 55 AVD AM	<b>3</b>	<b>1995</b>
GPS	Garmin	GPSMAP76S	<b>2</b>	<b>2003</b>
GPS	Garmin	GPS 90	<b>2</b>	<b>1996</b>
GPS	Garmin	92	<b>2</b>	<b>2002</b>
GPS	Garmin	95AVD	<b>6</b>	<b>1997</b>
GPS	Garmin	95XL	<b>6</b>	<b>1996</b>
GPS	Garmin	GPSmap195	<b>6</b>	<b>1997</b>
GPS	Garmin	GPSmap196	<b>2</b>	<b>2002</b>
GPS	Garmin	GPSmap196 when used with P/N 362-00019-00 AC Adapter	<b>1</b>	<b>2005</b>
GPS	Garmin	GPSmap 296 1. Battery operation	<b>2</b>	<b>2004</b>
		2. 28Volts DC direct from aircraft	<b>3</b>	<b>2009</b>
		3. FSY120125UU15-1 Adapter	<b>3</b>	<b>2009</b>
		4. PSA15R-120P Adapter	<b>3</b>	<b>2009</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

GPS	Garmin	GPSmap 396 including XM Satellite		
		1. Battery operation	4	2009
		2. 28VDC direct from aircraft	3	2009
		3. PSA15R-120P Adapter	3	2009
GPS	Garmin	GPSmap 496 including XM Satellite		
		1. Battery operation	4	2007
		2. 28VDC direct from aircraft	3	2009
		3. PSA15R-120P Adapter	3	2009
GPS	Garmin	GPSmap 696 including XM Satellite		
		1. Battery operation	4	2009
		2. 28VDC direct from aircraft	3	2009
		3. Delta Electronics EADP-60EB Adapter	3	2009
GPS	GlobalSat	BU-353	3	2007
GPS	GlobalSat	Model DG-100, Data Logger	2	2012
GPS	GNS	GPS 5870 MFI with Bluetooth	2	2012
GPS	Hiacom	HI-303III with PS2/USB cable interface or PCMCIA interface	3	2005
GPS	Interrep, Inc.	IR-310 when used with laptops certified for fixed wing or better	3	2003
GPS USB	Rayming	TN100 when used with Fujitsu Model CPO98570 Pen Tablet Computer as modified by Advanced Data Research for use in the FG-3600/00 PLUS Electronic Flight Bag	4	2002
GPS	Rockwell	AN/PSN-11(V)1	3	1997
ADS-B Receiver	Stratus	Stratus 2S with internal batteries	2	2021
GPS	Trimble	17319-42 Geo Explorer II	2	1999
GPS	Trimble	14992-81 Pathfinder Basic Plus	4	1999
GPS	USGlobalSat	BT-821C GPS Bluetooth		
		1. LIND PA1650-4132 FA, DC Adapter	3	2015
		2. LIND PA1645-2887 LB, DC Adapter	3	2015

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

GPS                      USGlobalSat              BU-353 S4 GPS antenna /receiver, USB      **3**                      **2015**

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

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**SECTION 6**

**PRINTERS**

Items are sorted in ascending alphabetical order first by Company and then by Model

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
Printer	Canon	iP90 with K30244 AC Adapter	3	2006
Printer	Citizen	PD-24 with Joden Model JSE-02008-8 AC adapter	2, 3	2005
Mobile Printer	Hewlett Packard	460 Deskjet Series with HP PPP009L AC Adapter	3	2007
Printer	Hewlett Packard	H470 Officejet	1	2010
Printer	Hewlett Packard	Officejet 100 Mobile Printer 1. Internal batteries 2. HP PPP009L-E AC Adapter	4 3	2012 2012
Printer	Hewlett Packard	Officejet 200 Mobile Printer	3, 4	2018
Printer	Hewlett Packard	Officejet Pro 8600 Plus	5	2014
Printer	Hewlett Packard	P2015dn Laserjet	3	2007
Printer	Hewlett Packard	PSC 1510 All-in-One with 0950-4401 AC Adapter	3	2006
Printer	Pentax	PT-A4303A with PT-1101A AC Adapter	5	2000
Printer	Ricoh	SFX2000M	5	2010
Printer	Seiko	DPU-3445-20A Power with PW-0904-W1 Adapter	1	2005

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Printer

Xerox

Phaser 6500

**5**

**2014**

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

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## SECTION 7

### HEADSETS

Items are sorted in ascending alphabetical order first by Company and then by Model

Headsets used by the air vehicle crew require aircraft system program office approval. See paragraph 4 on the cover.

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
Charger	Ceotronics	SA35-3153	1	2000
Wireless Headsets	Ceotronics	TC917 P/N 0802160 <b><u>C-130 and C-141 use only</u></b>	3	2000

Aircraft EMC testing is required because the unit is an intentional radiator. Headsets may be susceptible to harmonics of UHF and VHF radio transmitters. This is a typical problem and should be handled by frequency management, such as proper channel selection for the headsets.

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

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## SECTION 8

### BIO-ENVIRONMENTAL EQUIPMENT

Items are sorted in ascending alphabetical order first by Company and then by Model

<u>DESCRIPTION</u>	<u>COMPANY</u>	<u>MODEL</u>	<u>NOTES</u>	<u>TESTED</u>
Wearable Sensor	APDM	OPAL IMU	4	2017
Controller	Bruel & Kjaer	2237	2	1998
Digital Hygrometer/ Thermometer	Control Company	35519-051	4	1998
Air Quality Meter	Drager	Multiwarn II	2	1998
Air Sampler	Dupont	ALPHA-2	2	1998
Hot Wire Anemometer	Extech	407123	2	2001
Analog Data Logger	Foxboro	DL 332F	2	1998
Air Analyzer	Foxboro	MIRAN 1 BX	4	1998
Data Recorder	Gulf Coast	HAM-IMU+ALT Logger	2	2018
VDT/VLF Radiation Measurement System	Holaday	HI-3603	2	1998
ELF Field Strength Measurement System	Holaday	HI-3604	2	1998
Fiber Optic Remote Control	Holaday	HI-3616	2	1998
Wet Bulb Globe Thermometer	IST	RSS-214	3	2000
Air Quality Monitor	Metrosonics	AQ 501	3	1998
Heat Stress Monitor	Metrosonics	hs-3700	2	2001
Actigraph	Mini Mitter	Actiwatch A64	2	2008

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

Mini-Logger	Mini Mitter Series 2000	192-2000-00	<b>2</b>	<b>2001</b>
Mini-Logger	Mini Mitter Series 2000	192-2012-00	<b>2</b>	<b>2000</b>
Broadband Isotropic Meter	Narda	8611 with probes 8623 and 8662-B	<b>2</b>	<b>1998</b>
RF Radiation Survey Meter	Narda	8718 with probe 8752	<b>1</b>	<b>2002</b>
Radiation Monitoring System	NRC	ADM-300A with Probes AP-100A, BP-100 and XP-100	<b>2</b>	<b>1998</b>
Ion Chamber Survey Meter	NRC	SM-400A	<b>2</b>	<b>1998</b>
Personal Air Sampler	Spectrex	PAS-500	<b>2</b>	<b>1998</b>
Survey Meter	Victoreen Institute	440RF/A	<b>4</b>	<b>1998</b>

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

[Return to Section Listing](#)

## SECTION 9

### WIRELESS TAGS

Items are sorted in ascending alphabetical order first by Company and then by Model

<b><u>DESCRIPTION</u></b>	<b><u>COMPANY</u></b>	<b><u>MODEL</u></b>	<b><u>NOTES</u></b>	<b><u>TESTED</u></b>
RFID Tag	Evigia	EV3-AT	2	2009
RFID Tag	Evigia	EV3-ATNRB	2	2009
RFID Tag	Evigia	EV3-DRT	2	2009
RFID Tag	Evigia	EV3-LPT	2	2009
RFID Tag	Evigia	EV3-ST	2	2009
RFID Tag	Hi-G-Tek	IG-ST-51-433	2	2009
RFID Tag	Identec	iQ310-ATN	2	2009
RFID Tag	Identec	iQ310-ATR	2	2009
RFID Tag	Identec	iQ310-DTR	2	2009
RFID Tag	Identec	iQ310-LPT	2	2009
RFID Tag	Identec	iQ310-SET	2	2009
RFID Tag	Orbit One	SX1	2	2009
Mobile Reader	Savi	CK61-KIT-C-531	4	2009
Mobile Reader	Savi	SMR-650-216	4	2009
Mobile Reader	Savi	SMR-650-217	4	2009
Mobile Reader	Savi	SMR-650-218	4	2009
RFID Tag	Savi	ST-614-031	2	2009
RFID Tag	Savi	ST-614-031-NSN	2	2009
RFID Tag	Savi	ST-616-001	2	2009

This letter **DOES NOT APPLY** to any equipment considered to be a standard part of the aircraft.

RFID Tag	Savi	ST-616-031	2	2009
RFID Tag	Savi	ST-616-031-NSN	2	2009
RFID Tag	Savi	ST-618-030	2	2009
RFID Tag	Savi	ST-618-032-NSN	2	2009
RFID Tag	Savi	ST-621-030	2	2009
RFID Tag	Savi	ST-621-032-NSN	2	2009
RFID Tag	Savi	ST-654-001	2	2009
RFID Tag	Savi	ST-654-031	2	2009
RFID Tag	Savi	ST-654-031-NSN	2	2009
RFID Tag	Savi	ST-656-I	2	2009
RFID Tag	Savi	ST-673-001	2	2009
RFID Tag	Savi	ST-673-030	2	2009
RFID Tag	Savi	ST-673-030-NSN	2	2009
RFID Tag	Savi	ST-674-001	2	2009
RFID Tag	Savi	ST-674-030	2	2009
RFID Tag	Savi	ST-674-030-NSN	2	2009
RFID Tag	Savi	ST-675-001	2	2009
RFID Tag	Savi	ST-675-030	2	2009
RFID Tag	Savi	ST-675-030-NSN	2	2009
RFID Tag	Savi	ST-675-100	2	2009
RFID Tag	Savi	ST-694-001	2	2009
NGWC* Tag	Cubic	RSU-3	2	2013

\*NGWC – Next Generation Wireless Communication