

Service Bulletin Number 3015.()-34-3631

Announcement of the Availability of Vision-1[®] Terrain Database 1401

NOTE: Revision C to this Service Bulletin provides Field Loading information and updated kit pricing.

A. Effectivity

This Service Bulletin is applicable to Vision-1 P/N 3015-XX-XX configured with SCN 10.0 and later.

B. Compliance

Installation of Terrain Database 1401 is optional. Consideration should also be given to the length of time since the database was last updated. Each Terrain Database incorporates all changes and updates from the previous databases.

NOTICE

This Terrain Database can be field loaded into Vision-1. Contact Universal Avionics to obtain database loading kit part number P12104 which includes the Field Loading Procedures, Zip disks and USB flash drives to load Terrain Database 1401.

Loading terrain databases into Vision-1 requires a Solid State Data Transfer Unit (SSDTU) (P/N 1408-00-X or 1409-00-2) or DTU-100 (P/N 1406-01-X or 1407-01-1) with Mod 1 marked on the nameplate.

For operators using a DTU-100 without Mod 1, the Vision-1 units should be sent to Universal Avionics for updating. The terrain database contains five disks with 450 Mb of data and takes over an hour to load. Because of this, DTU-100 units without Mod 1 may fail due to overheating causing the Vision-1 Terrain Database to become corrupted and the Vision-1 system unserviceable.

If the Vision-1 unit is returned to Universal Avionics for update of the terrain database or because of failure during field loading, the repair center will update the database and perform any modifications and updates to the unit.

The following is a list of previously released Terrain Databases and the respective Service Bulletin describing the changes made to each of the databases. The Service Bulletins can be found in UniNet at our website www.uasc.com

Database Cycle Number	Service Bulletin Number
0702	3261
0805	3294
0903	3336
1202	3523

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C. Description

A new Terrain Database has been released for installation in Universal Avionics Vision-1. This database contains the latest terrain feature updates to increase the effectiveness of Vision-1.

Updates to Database

Vision-1 Terrain Database 1401, effective date 21 October 2014, incorporates the following enhancements to Terrain Database 1202:

1. Terrain Database 1401 provides worldwide coverage and includes data (missing in earlier releases of the terrain database) at the following four areas along the coastline of Antarctica:
 - S72°–S73°, W103° 48'–W106° 12'
 - S72°–S73°, W79° 48'–W81° 0'
 - S66°–S67°, E162° 48'–E164° 0'
 - S67°–S68°, E164° 0'–E165° 12'
2. Data accuracy has been improved at the following locations:
 - Grant Co. Regional, USA (KGCD)
 - Lebanon Municipal Airport, USA (KLEB)
 - Mt Fuji Shizuoka Airport, Japan (RJNS)
 - Williamsburg-Whitley County Airport, USA (KYBL)
 - Siberia, Russia (N66°–N69°, E138°–E141° and N61°–N63°, E138°–E144°)
 - The Island of Sao Tome
 - John F Kennedy International Airport, USA (KJFK)
 - Tampa International Airport, USA (KTPA)
 - Grant Co. International Airport, Moses Lake, WA, USA (KMWH)
 - Navarino Island, Chile (SAWH) and (SCGZ)
 - North Central State Airport, USA (KSFZ)
 - Birmingham International Airport, USA (KBHM)
 - Jenny Island, Antarctica—Low elevation for Jenny Island, Antarctica (as well as Leonie Island, Lagoon Island, Anchorage Island, Donnelly Island, and Limpet Island) has been improved
 - Islands of Fiji—High elevation along the coastlines of the islands of Fiji has been improved
 - Multiple Ocean Locations—Non-zero elevation in a number of ocean locations throughout the world has been improved

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- Many (300+) Locations throughout the World—Abnormal elevation (pits and spikes) at many locations throughout the world (the majority being in mountainous regions and along coastlines) has been improved
 - Multiple Locations in Canada—Higher resolution source data for Canada has been used to improve the elevation quality
3. Data resolution has been improved (to 6 arc seconds) at the following airports:
- Ny-Ålesund Airport, Norway (ENAS)
 - Svea Airport, Norway (ENSA)
 - Qikiqtarjuaq Airport, Canada (CYVM)

Known Issues with Database

1. Elevation and Runway Data Inconsistencies

Inconsistencies between the elevation data and navigation data runway elevations have been identified.

Elevation inconsistencies have been identified at the following airports (with published precision procedures):

- AYXM—Komo, Papua New Guinea
- ENKB—Kvernberget Airport, Kristiansund, Norway
- FGMY—Mengomeyen, Wele-Nzas Province, Equatorial Guinea
- LECH—Castellon, Spain
- LTCG—Trabzon, Turkey
- OEOM—Um Al Melh Airport, Saudi Arabia
- ZBAA—Beijing, China
- ZGOW—Waisha, Shantou, Guangdong, China
- ZPPP—Kunming, Yunnan, China

Elevation inconsistencies have been identified at the following airports (with no published precision procedures):

- 2U8—Stanley, ID, USA
- 3U7—Augusta, MT, USA
- BGBW—Narsarsuaq, Greenland
- BGCO—Jameson Land, Greenland
- BGMV—Mestersvig, Greenland
- BGUQ—Uummannaq, Greenland
- CYDM—Ross River, Yukon, Canada
- CYXP—Pangnirtung, Nunavut, Canada
- ENNK—Narvik, Nordland, Norway
- FHAW—Georgetown, Ascension Island

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- HAGM—Gambela, Ethiopia
- HKMY—Moyale, Kenya
- HKNV—Naivasha, Kenya
- HLBK—Kambut, Libya
- KEBD—Williamson, West Virginia, USA
- LFTZ—La Mole, France
- LGKJ—Kastelorizo, Greece
- LOKG—Ferlach, Austria
- MRDK—Drake Bay, Costa Rica
- NZSP—Antarctica, New Zealand
- OYBD—Al-Bayda, Yemen
- OYMB—Marib, Yemen
- OYMS—Mukeiras, Yemen
- OYSH—Saadah, Yemen
- OYZM—Al-Hazm, Yemen
- PACZ—Cape Romanzof, Alaska, USA
- PADU—Unalaska, Alaska, USA
- SAWB—Base Marambio, Seymour Island, Antarctica
- SLCC—Copacabana, Bolivia
- SPHZ—Anta, Peru
- SPIN—Inapari, Peru
- SPRF—San Rafael, Peru
- SUTR—Treinta y Tres, Uruguay
- VIKL—Kargil, India
- VITE—Thoise, India
- VNMA—Manang, Nepal
- VNSK—Surkhet, Nepal
- VNTR—Tumling Tar, Nepal
- WAJW—Wamena, Indonesia

2. Elevation and Airport Data Inconsistencies

Inconsistencies between elevation data and airport data have been identified at the following airport:

- SBR—Sky-Blu Eastern Ellsworth Land, Antarctica

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3. Elevation Data and Published Procedure Inconsistencies

The following airports have been identified as airports that have inconsistencies with the procedures defined in the navigation data. Some inconsistencies are expected, typically at airports in mountainous regions or areas of rugged terrain. The following airports have elevation inconsistencies and are airports located in a mountainous regions or areas of rugged terrain:

- 08N—Lebanon, Pennsylvania, USA
- 6A4—Johnson County Airport, TN, USA
- AGAT—Ura Harbour, Solomon Islands
- BGBW—Narsarsuaq Airport, Greenland
- BGJN—Ilulissat Airport, Greenland
- BGKK—Kulusuk Airport, Greenland
- BGQQ—Qaanaaq Airport, Greenland
- BGSS—Sisimiut Airport, Greenland
- CCK4—St. Lewis, Newfoundland and Labrador, Canada
- CDL7—Doris Lake, Nunavut, Canada
- CYPW—Powell River, British Columbia, Canada
- CYZW—Teslin Airport, Yukon, Canada
- EKVG—Vagar Airport, Faroe Islands
- ENDU—Bardufoss Airport, Norway
- ENHF—Hammerfest Airport, Norway
- ENMH—Mehamn, Norway
- ENNM—Namsos Airport, Norway
- ENSD—Sandane Airport, Anda, Norway
- ENSG—Sogndal Airport, Haukasen, Norway
- GE99—Heaven's Landing Airport, GA, USA
- KASE—Aspen-Pitkin County Airport, CO, USA
- KCBE—Greater Cumberland Regional Airport, MD, USA
- KCZG—Tri-Cities Airport, NY, USA
- KDDH—William H. Morse State Airport, VT, USA
- KELM—Elmira-Corning Regional Airport, NY, USA
- KHTF—Hornell, New York, USA
- KLCI—Laconia Municipal Airport, NH, USA
- KNFG—MCAS Camp Pendleton, CA, USA
- KOVS—Boscobel Airport, WI, USA
- KRIR—Flabob Airport, CA, USA
- KRUT—Rutland State Airport, VT, USA

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- KSME—Somerset-Pulaski County Airport, KY, USA
- KSVE—Susanville, California, USA
- KTRK—Truckee, California, USA
- LGIO—Ioannina National Airport, Greece
- LIMG—Villanova d'Albenga International Airport, Italy
- LOWI—Innsbruck, Austria
- LPCR—Corvo Airport, Portugal
- LPHR—Horta Airport, Portugal
- N23—Sidney Municipal Airport, NY, USA
- N27—Towanda, Pennsylvania, USA
- N98—Boyne City, Michigan, USA
- NFNR—Rotuma Island Airport, Fiji
- NTTM—Temaue Airport, French Polynesia
- OEAD—Aradah, Saudi Arabia
- PACZ—Cape Romanzof Long Range Radar Station, AK, USA
- PADU—Unalaska Airport, AK, USA
- PAEH—Cape Newenham Long Range Radar Station, AK, USA
- PAHC—Holy Cross Airport, AK, USA
- PAIK—Bob Baker Memorial Airport, AK, USA
- PAIM—Utopia Creek, Alaska, USA
- PAJN—Juneau, Alaska, USA
- PALU—Cape Lisburne, Alaska, USA
- PAOH—Hoonah, Alaska, USA
- PASV—Sparrevohn Long Range Radar Station, AK, USA
- PAWG—Wrangell, Alaska, USA
- PFEL—Elim, AK, USA
- PTKK—Chuuk International Airport, Federated States of Micronesia
- RCMT—Beigan, Matsu Island, Taiwan
- RJEB—Monbetsu, Hokkaido, Japan
- RJFT—Kumamoto Airport, Japan
- RJTH—Hachijojima Airport, Japan
- RKNC—Chun Chon City, Republic of Korea
- RPLP—Legazpi Airport, Philippines
- SBFN—Fernando de Noronha Airport, Brazil
- SBRJ—Santos Dumont Regional Airport, Brazil
- SCIP—Mataveru International Airport, Chile

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- SCSE—La Florida Airport, Chile
 - TNCE—FDR Airport, Netherlands Antilles
 - TVSC—Canouan Island Airport, Saint Vincent and the Grenadines
 - VTSM—Samui Airport, Thailand
 - WBMU—Mulu Airport, Malaysia
 - YBHM—Hamilton Island Airport, Australia
 - YLHI—Lord Howe Island Airport, Australia
 - YNPE—Northern Peninsula Airport, Queensland, Australia
 - YPAM—Palm Island Airport, Australia
4. Missing 6 Arc Second Data at Airports

Inconsistencies between elevation data and runway data due to missing 6 arc second data has been identified in the FVN 10.0 database at the following airports:

- 13ME—Rockwood, Maine, USA
 - 14TS—Realitos, Texas, USA
 - DNFB—Mahoney Creek, Nigeria
 - DNFD—Forcados, Nigeria
 - FGMY—Mengomeyen, Wele-Nzas Province, Equatorial Guinea
 - LCEN—Lefkosa, Cyprus
 - LECH—Castellon, Spain
 - OOSH—Sohar, Oman
 - RK1 —Kavik River, Alaska, USA
 - TNCS—The Bottom, Saba, Netherlands Antilles
 - UHSI—Iturup, Russia
 - XS71—Pawnee, Texas, USA
 - XS75—Round Mountain, Texas, USA
 - ZSSH—Huaian, Jiangsu, China
 - ZSWX—Wuxi, Jiangsu, China
5. Elevation and Water Data Inconsistencies:

Inconsistencies between the elevation and water data have been identified. These inconsistencies result in areas of the database being classified as water in areas where the elevation varies significantly.

The data sources used to classify water north of N60° and south of S60° have inaccuracies and result in elevation and water data inconsistencies.

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6. Water and Runway Data Inconsistencies:

Inconsistencies between the water data and the runway data have been identified at the following airports.

Water and runway data inconsistencies have been identified at the following airports:

- CDL7 (RW17)—Doris Lake, Canada
- CGS2 (RW14L and RW16)—Goose Lake, Canada
- KFIN (RW18)—Flagler County, Florida, USA
- 0B8 (RW12)—Elizabeth Field, New York, USA
- 0E9 (RW09 and RW11)—Corydon, Iowa, USA
- 0Q3 (RW07)—Sonoma Valley, California, USA
- 2L0 (RW18)—Pineville Municipal, Louisiana, USA
- 3S7 (RW15)—Nehalem Bay State, Oregon, USA
- 3W7 (RW03)—Grand Coulee Dam, Washington, USA
- 3W9 (RW09)—Middle Bass-East Point, Ohio, USA
- 4A2 (RW15)—Atmautluak, Alaska, USA
- 4R9 (RW12)—Dauphin Island, Alabama, USA
- 5NC2 (RW02)—Lathan Strip, North Carolina
- 6K2 (RW17)—Shelby County, Missouri, USA
- 75D (RW01)—P W Johnson Memorial, West Virginia, USA
- 89D (RW09)—Kelleys Island Land Field, Ohio, USA
- 8A1 (RW03)—Guntersville Municipal Joe Starnes Field, Alabama, USA
- AGGE (RW04)—Balalae Airport, Solomon Islands
- AGGL (RW05)—Santa Cruz/Graciosa Bay/Luova, Solomon Islands
- AGGN (RW14)—Nusatupe, Solomon Islands
- AGGQ (RW09)—Ontong Java Atoll Airstrip, Solomon Islands
- AYMD (RW07)—Madang, Papua New Guinea
- AYNV (RN12)—Vanimo, Papua-New Guinea
- BGAA (RW11)—Aasiaat, Greenland
- BGUK (RW05)—Upernavik, Greenland
- BIDV (RW17)—Djupivogur, Iceland
- BIST (RW07)—Stykkisholmur, Iceland
- CBQ2 (RW08)—Fort Langley, Canada
- CDK2 (RW10)—Diavik, Canada
- CFF4 (RW10)—Great Bear Lake, Canada
- CKV4 (RW03)—North of Sixty, Canada

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- CRL7 (RW07)—Reindeer Lake/Lindbergh Lodge Airstrip, Canada
- CYBK (RW16)—Baker Lake, Canada
- CYCO (RW12)—Kugluktuk, Canada
- CYFR (RW13)—Fort Resolution, Canada
- CYGO (RW14)—Gods Lake Narrows, Canada
- CYGX (RW05)—Gillam, Canada
- CYIK (RW07)—Ivujivik, Canada
- CYIV (RW12)—Island Lake, Canada
- CYLK (RW08)—Lutselk'e, Canada
- CYLT (RW05)—Alert, Canada
- CYPC (RW02)—Paulatuk, Canada
- CYRV (RW12)—Revelstoke, Canada
- CYST (RW04)—St. Theresa Point, Canada
- CYTE (RW13)—Cape Dorset, Canada
- CYUT (RW16)—Repulse Bay, Canada
- CYUX (RW12)—Hall Beach, Canada
- CYXN (RW15)—Whale Cove, Canada
- CZJN (RW02)—Swan River, Canada
- CZWH (RW03)—Lac Brochet, Canada
- DNFD (RW02)—Forcados, Nigeria
- DTMB (RW07)—Monastir Habib Bourguiba International, Tunisia
- EFKS (RW12)—Kuusamo, Finland
- EFMA (RW03)—Mariehamn, Finland
- EFSA (RW12)—Savonlinna, Finland
- EGAR (RW18)—Rothera Research Station, Antarctica
- EGEO (RW01)—Oban, United Kingdom
- EGKH (RW10)—Lashenden Headcorn, United Kingdom
- EGLC (RW09)—London City, United Kingdom
- EGPB (RW09 and RW15)—Sumburgh, United Kingdom
- EKSB (RW14)—Sonderborg, Denmark
- ENAN (RW03 and RW14)—Andoya, Norway
- ENAT (RW11)—Alta, Norway
- ENBN (RW04)—Bronnoy, Norway
- ENFG (RW15)—Leirin, Norway
- ENFL (RW07)—Floro, Norway

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- ENHK (RW11)—Hasvik, Norway
- ENHV (RW08)—Valan, Norway
- ENML (RW07)—Molde Aro, Norway
- ENNK (RW01)—Narvik Framnes, Norway
- ENNM (RW07)—Namsos, Norway
- ENRS (RW03)—Rost, Norway
- ENSB (RW10)—Svalbard Longyear, Svalbard and Jan Mayen
- ENSD (RW09)—Sandane, Norway
- ENSH (RW01)—Svolvaer Helle, Norway
- ENSK (RW09)—Stokmarknes Skagen, Norway
- ENSR (RW15)—Sorkjosen, Norway
- ENSS (RW15)—Svartnes, Norway
- ENTC (RW01)—Tromso Langnes, Norway
- ENVA (RW09)—Vaernes, Norway
- EPPL (RW13)—Plock, Poland
- EPST (RW09)—Stalowa Wola-Turbia, Poland
- F89 (RW18)—Winnsboro Municipal, Louisiana, USA
- FAQ (RW12)—Fitiuta, American Samoa
- FSIA (RW13)—Seychelles International, Seychelles
- HCMM (RW05)—Aden Adde International, Somalia
- KBKL (RW06L)—Burke Lakefront, Ohio, USA
- KBOS (RW14 and RW15R)—General Edward Lawrence Logan International, Massachusetts, USA
- KCOI (RW11)—Merritt Island, Florida, USA
- KDCA (RW04 and RW15)—Ronald Reagan Washington National, District of Columbia, USA
- KDKX (RW08)—Knoxville Downtown Island, Tennessee, USA
- KDYT (RW14)—Sky Harbor, Minnesota, USA
- KLGA (RW13)—La Guardia, New York, USA
- KMDT (RW13)—Harrisburg International, Pennsylvania, USA
- KMHT (RW06)—Manchester, New Hampshire, USA
- KMTP (RW06)—Montauk, New York, USA
- KNEW (RW18R)—Lakefront, Louisiana, USA
- KNOW (RW08)—Port Angeles Cgas, Washington, USA
- KNYG (RW02)—Quantico MCAF, Virginia, USA
- KOLD (RW12)—Dewitt Field, Old Town Municipal, Maine, USA

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- KORD (RW10C)—O'Hare Intl, Illinois, USA
- KOTH (RW04)—Southwest Oregon Regional, Oregon, USA
- KRNH (RW04)—New Richmond Regional, Wisconsin, USA
- KSGJ (RW13)—St Augustine, Florida, USA
- KSKY (RW09 and RW18)—Griffing Sandusky, Ohio, USA
- KSPG (RW18)—Albert Whitted, Florida, USA
- KSQL (RW12)—San Carlos, California, USA
- KWBW (RW07)—Wilkes Barre Wyoming Valley, Pennsylvania, USA
- LBSF (RW09)—Sofia, Bulgaria
- LESO (RW04)—San Sebastian, Spain
- LGKR (RW17)—Ioannis Kapodistrias Intl, Greece
- LGLE (RW14)—Leros, Greece
- LGNX (RW18)—Naxos, Greece
- LGSM (RW09)—Samos, Greece
- LIMJ (RW10)—Genova Sestri, Italy
- LZNI (RW15L and RW15R)—Nitra Glider, Slovakia
- MBAC (RW07)—Ambergris Cay International, Turks & Caicos
- MBPI (RW11)—Pine Cay, Turks and Caicos Islands
- MMZO (RW10)—Playa De Oro International, Mexico
- MRDK (RW09)—Drake Bay, Costa Rica
- MRLM (RW14)—Limon International, Costa Rica
- MRTR (RW12)—Tambor, Costa Rica
- MYER (RW09)—Rock Sound, Bahamas
- NCPK (RW07)—Pukapuka Island, Cook Islands
- NTAA (RW04)—Faa'a Int, French Polynesia
- NTAT (RW03)—Tabuai, French Polynesia
- NTAV (RW06)—Raivavae, French Polynesia
- NTGA (RW14)—Aana, French Polynesia
- NTGJ (RW12)—Totegegie, French Polynesia
- NTGT (RW07)—Takapoto, French Polynesia
- NTHE (RW06)—Ahe, French Polynesia
- NTTH (RW07)—Huahine-Fare, French Polynesia
- NTTR (RW07)—Raiatea, French Polynesia
- NWWU (RW13)—Touho, New Caledonia
- OMBY (RW13)—Sir Bani Yas, United Arab Emirates

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- OTHH (RW16L and RW16R)—Hamad Intl, Qatar
- PABA (RW07)—Barter Island LRRS, Alaska, USA
- PABG (RW01)—Beluga, Alaska, USA
- PADU (RW13)—Unalaska, Alaska, USA
- PAEG (RW07)—Eagle, Alaska, USA
- PAGL (RW02)—Golovin, Alaska, USA
- PAGM (RW16)—Gambell, Alaska, USA
- PAHN (RW08)—Haines, Alaska, USA
- PAHP (RW13)—Hooper Bay, Alaska, USA
- PAJC (RW02)—Chignik, Alaska, USA
- PAJN (RW08)—Juneau International, Alaska, USA
- PAKA (RW13)—Tatitlek, Alaska, USA
- PALU (RW09)—Cape Lisburne Lrrs, Alaska, USA
- PAMH (RW03)—Minchumina, Alaska, USA
- PAOT (RW09 and RW18)—Ralph Wien Memorial, Alaska, USA
- PAPC (RW16)—Port Clarence CGS, Alaska, USA
- PAPE (RW02)—Perryville, Alaska, USA
- PAPO (RW01)—Point Hope, Alaska, USA
- PASD (RW13)—Sand Point, Alaska, USA
- PASH (RW05)—Shishmaref, Alaska, USA
- PASI (RW11)—Sitka Rocky Gutierrez, Alaska, USA
- PAUN (RW15)—Unalakleet, Alaska, USA
- PAVL (RW12)—Kivalina, Alaska, USA
- PAWG (RW10)—Wrangell, Alaska, USA
- PCIS (RW09)—Canton, Kiribati
- PFCB (RW16)—Chenega Bay, Alaska, USA
- PFEL (RW01)—Elim, Alaska, USA
- PFKT (RW12)—Brevig Mission, Alaska, USA
- PFSH (RW14)—Shaktoolik New, Alaska, USA
- PKRO (RW04)—Dyess Army Air Field, Marshall Islands
- PTPN (RW09)—Pohnpei Intl, Micronesia
- PTSA (RW05)—Kosrae International, Micronesia
- RCMT (RW03)—Matsu Beigan, Taiwan
- RCSP (RW07)—Taiping Island, Taiwan
- RJBB (RW06L)—Kansai International, Japan

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- RJBE (RW09)—Kobe, Japan
- RJBK (RW09)—Kohnan, Japan
- RJDC (RW07)—Yamaguchi Ube, Japan
- RJFR (RW18)—Kitakyushu, Japan
- RJFZ (RW07)—Tsuiki, Japan
- RJGG (RW18)—Chubu Centrair International, Japan
- RJKN (RW01)—Tokunoshima, Japan
- RJOH (RW07)—Miho Yonago, Japan
- RJOI (RW02)—Iwakuni Mcas, Japan
- RJOS (RW11)—Tokushima, Japan
- RJTT (RW04, RW05 and RW16L)—Tokyo Haneda International, Japan
- RKSI (RW16)—Incheon International, Korea
- ROKJ (RW03)—Kumejima, Japan
- RPVD (RW09)—Sibulan, Philippines
- SBCB (RW10)—Cabo Frio, Brazil
- SBPJ (RW14)—Tocantins, Brazil
- SBRJ (RW02L and RW02R)—Santos Dumont, Brazil
- SCRМ (RW11)—Teniente Rodolfo Marsh Martin, Antarctica
- SERO (RW07)—Coronel Artilleria Victor Larrea, Ecuador
- SESV (RW15)—Los Perales, Ecuador
- SPLO (RW12)—Ilo, Peru
- SXP (RW01)—Sheldon Point, Alaska, USA
- TDCF (RW01)—Canefield, Dominica
- TFFG (RW12)—St Maarten - Grand Case, Saint Martin
- TFFM (RW09)—Les Bases, Guadeloupe
- TIST (RW10)—Cyril E. King, U.S. Virgin Islands
- TJIG (RW09)—Fernando Luis Ribas Dominicci, Puerto Rico
- TUPJ (RW07)—Terrance B. Lettsome International, British Virgin Islands
- TVSC (RW13)—Canouan, Saint Vincent and the Grenadines
- UEMU (RW06)—Ust-Maya, Russia
- UEST (RW03)—Tiksi, Russia
- UHMP (RW17)—Pevek, Russia
- USDK (RW15)—Mys Kamenny, Russia
- VRMD (RW11)—Dharavandhoo, Maldives
- VRMG (RW10)—Gan International, Maldives

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- VRMV (RW09)—Maamigili, Maldives
- WAHS (RW13)—Achmad Yani, Indonesia
- WBKK (RW02)—Kota Kinabalu Int, Malaysia
- WMKN (RW04)—Sultan Mahmud, Malaysia
- YBHM (RW14)—Hamilton Island, Australia
- YLHI (RW10)—Lord Howe Island, Australia
- YRTI (RW09)—Rottneest Island, Australia
- YSSY (RW16L)—Sydney Kingsford Smith International, Australia
- Z55 (RW13)—Lake Louise, Alaska, USA
- ZGSZ (RW16)—Baoan International, China

D. Approval

Conforms to:

FAA TSO-C113, C-113a

RTCA/DO-160D

RTCA/DO-178B S/W Level C

E. Weight and Balance

No change

F. Material – Cost and Availability

1. Universal Avionics will not be responsible for labor or other costs involved in removal and replacement of the unit. Universal Avionics will pay the cost of return shipping (FedEx P2 only) if the unit is still under warranty. Prior to shipping the unit, contact our Product Support Department for pricing, scheduling and shipping details.
2. Terrain Database 1401 kit P12104 is available at a price of \$900.00 plus shipping. Contact our Sales Administration to purchase.
3. If the Vision-1 unit is returned to Universal Avionics for update of the terrain database, the repair center will update the database and perform all modifications and updates to the unit. There is a charge of \$1,750.00 to recertify the unit.
4. Pricing is subject to change.
5. Available from: Sales Administration
Universal Avionics Systems Corporation
3260 E. Universal Way
Tucson, AZ 85756-5097
Ph: (520) 295-2300
Fax: (520) 295-2395
Email: info@uasc.com