

INFORMATION NOTICE

NUMBER: 600870-000019
 SUBJECT: VISION 1000 EMBEDDED SOFTWARE UPDATE
 COMPLIANCE LEVEL: RECOMMENDED
 DATE: FEBRUARY 22, 2018

1. Planning Information

A. Effectivity

(1) Unit Applicability

Model Description	Appareo Part Number	Embedded Software Versions Affected*
Vision 1000 Final Assembly	150575-000003	501010-000003 R14 or earlier
	150575-000007	
	150575-000011	
	150575-000012	
	150575-000016	
	150575-000021	
	150575-000003	501010-000004 R11 or earlier
	150575-000014	
	150575-000010	501010-000031 R05 or earlier

*To determine the embedded software version currently installed on the Vision 1000, follow the instructions in Section 3.A.

(2) Aircraft Affected*

- Agusta S.p.A. A109
- Agusta S.p.A. A119
- Airbus Helicopters AS350
- Bell 206
- Cessna 172
- Cessna 208
- Diamond DA-40

*or otherwise installed by alternate FAA approved means

B. Reason

Appareo has released an embedded software update for the Vision 1000 that fixes an issue where some customers could not boot up their Vision 1000.

C. Description

This information notice outlines the method of applying the embedded software update to your Vision 1000.

D. Compliance Time

Appareo recommends that the instructions contained in this information notice be applied at the earliest opportunity where manpower and facilities are available.

E. Approval

This information notice contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

F. Manpower

Action	Estimated time (in minutes)
Determine current Vision 1000 embedded software version	5
Download embedded software file	5
Upload embedded software update file onto Vision 1000	5
Verify embedded software was correctly installed (optional)	0-5
Restore your laptop's original network settings	2
Total elapsed time to perform information notice procedures	17-22

G. Weight Change

None

H. Electrical Load Change

None

2. Material Information

A. Materials Required

Contact vision1000updates@appareo.com if you are missing any of the Appareo parts below.

Appareo Part Number	Material Description	Note
n/a	Laptop with Windows XP or later operating system	Used to download the embedded software update file and run Appareo desktop software.
500210-000009	Vision 1000 Configuration Tool desktop software	Included with the purchase of the Vision 1000.

153560-000004 (plastic connector) or 153560-000018 (metal connector)	6 ft Ethernet Harness with CPC or Vision 1000 Ethernet harness	Included in the Vision 1000 installation kit. Connects the laptop to the Vision 1000.
n/a	SD card (16 GB or smaller)	Used to apply the embedded software onto the Vision 1000.
n/a	SD card reader (optional)	Used to connect the SD card to the laptop if you don't have an SD card slot on your laptop.
501010-000003 or 501010-000004 or 501010-000031	Vision 1000 embedded software update file	Refer to the table on page 1 to determine your embedded software part number.

3. Accomplishment Instructions

A. Determining the current embedded software version

You should have the most recent version of Vision 1000 embedded software before completing the update. Complete the steps below to determine your embedded software version.

(1) Configure the computer's network settings.

1. Navigate to the network connections settings page.
 - **Windows XP:**
 - a. Click the Windows Start button on the lower left corner of the desktop.
 - b. Click **Control Panel** and click **Network Connections**.
 - **Windows Vista:**
 - a. Click the Windows Start button on the lower left corner of the desktop.
 - b. Click **Control Panel** and click **Network & Sharing Center**.
 - c. Click **Manage network connections** on the left side of the screen.
 - **Windows 7:**
 - a. Click the Windows Start button on the lower left corner of the desktop.
 - b. Type "Network Connections" into the search bar and click **View Network Connections**.
 - **Windows 8 and Windows 10:**
 - a. Click the Windows Start button on the lower left corner of the computer's desktop.

NOTE: If you don't have a Start button, move your cursor to the lower left corner of the desktop and you should see the Start menu shortcut.

- b. Click **Settings** or navigate to the Settings menu.
 - c. Click **Network and internet**.
 - d. Click **Change adapter settings**.
2. Right-click **Ethernet** (Windows 8, 10) or **Local Area Connection** and click **Properties**.
 3. Click **Internet Protocol Version 4 (TCP/IPv4)** or **Internet Protocol (TCP/IP)** (Windows XP) and click **Properties**.
 4. If there is an existing IP address listed, take note of it. Original settings will have to be restored after configuration has been completed.
 5. Select **Use the following IP address**, and type the following information in the respective fields:
 - IP address: 192.168.16.200
 - Subnet mask: 255.255.255.0
 - Default gateway: 192.168.16.1
 6. Click **OK** to save the network changes.

(2) Connect the Vision 1000 to the computer.

1. Ensure that an SD card used for recording flight data is in the Vision 1000's SD card slot.
2. Close the circuit breaker labeled "Camera" to power on the Vision 1000.

NOTE: Because the Vision 1000 uses aircraft power, ensure that your aircraft is powered on. While the Vision 1000 is starting up, the LED status light will be blue. After it has finished starting up, the LED will switch to green. Once the LED has been green for approximately two minutes, you can connect to the Vision 1000.

3. Plug the Ethernet cord included with the Vision 1000 installation kit into the computer's Ethernet port and the E1 port of Vision 1000.

(3) Determine the embedded software version number.

1. Open the Vision 1000 Configuration Tool on your computer and ensure that "Device Connected" appears in the top status bar.

NOTE: If you don't have the Configuration Tool, you can download it from www.appareo.com/download/config-tool.

2. Select **Operator** from the drop-down menu and type *h2StAste* in the password field. Click **Login**.

- Click the **BIT** tab. In the “Device Version Information” box, the numbers immediately following “R” are the version number. **If your embedded software version is older than the version listed in the table below, you will need additional embedded software before you can update to the newest version.** Email vision1000updates@appareo.com for instructions to update your Vision 1000.

Appareo Part Number	Current Embedded Software Versions Required
150575-000003 150575-000007 150575-000011 150575-000012 150575-000016 150575-000021	501010-000003 R14
150575-000003 150575-000014	501010-000004 R11
150575-000010	501010-000031 R05

- Disconnect the Vision 1000 from the laptop and replace the Vision 1000 port’s dust cap.**

B. Downloading embedded software update file

- Insert a 16 GB or smaller SD card into your laptop’s SD card slot or an SD card reader connected to your laptop.

NOTE: Do not use an SD card intended for recording Vision 1000 flights or you will erase any flight files that are on the card.

- Navigate to www.appareo.com/vision-1000-embedded-software-update and download the two update files for your embedded software part number. Then, save the files onto the SD card.

C. Uploading the embedded software update file onto your Vision 1000

- Open the circuit breaker labeled “Camera,” located on the aircraft’s main circuit breaker, to power off the Vision 1000.
- Open the Vision 1000 SD card access door by pushing the door latch to the side and swinging the door open.
- Remove the SD card in the slot, if there is one.
- Insert the software update SD card into the slot.
- Close the circuit breaker labeled “Camera” to power on the Vision 1000.
- Leave the Vision 1000 powered on until the LED flashes alternating green and blue.

7. Open the circuit breaker labeled “Camera” to power off the Vision 1000.
8. Remove the SD card and insert the 16 GB SD card used for normal Vision 1000 flight data recording.

IMPORTANT: The software update SD cards cannot be used for Vision 1000 recording. Save the update SD card in case the embedded software needs to be re-uploaded in the future.

NOTE: You can use the software update SD card to update multiple Vision 1000s. If you plan to use the same SD card to update multiple Vision 1000s, do not reinsert that SD card into a Vision 1000 after it has already been updated. The Vision 1000 will delete update files on an SD card if it has already been updated.

D. Verifying that the embedded software update was correctly installed (OPTIONAL)

1. Complete Steps 3.A.(1) through (3) above. Ensure that the versions below appear in the “Device Version Information” box.

Appareo Part Number	Embedded Software Versions
150575-000003 150575-000007 150575-000011 150575-000012 150575-000016 150575-000021	501010-000003 R15
150575-000003 150575-000014	501010-000004 R12
150575-000010	501010-000031 R06

IMPORTANT: If the wrong embedded software part number appears (e.g. 501010-000003 instead of 501010-000004), the wrong update file was downloaded from the Appareo website and applied to your Vision 1000. Download the correct update files and re-apply them to your Vision 1000.

2. Perform Built-in-Tests (BITs).

NOTE: The aircraft’s GPS antenna must be capable of receiving GPS signal, or a GPS repeater must be used.

- a. Click the **BIT** tab in the Vision 1000 Configuration Tool, then click **Start Built in Test**.

- b. After a few moments, all of the individual built-in-tests will display either a Pass or Fail status. If each built-in-test has a "Pass" status, the Vision 1000 is functioning correctly.

NOTE: SD card BIT failures will occur since the SD card is not in the Vision 1000 during this procedure.

3. Disconnect the Vision 1000 from the laptop and replace the Vision 1000 port's dust cap.

E. Restoring your laptop's original network settings

Refer to the instructions in Section 3.A.(1) to restore the computer to its original network settings so that it will function normally.