ViewTag™ Specification

Digital Luggage Tag

DESCRIPTION

ViewTag is a smart baggage tag equipped with Bluetooth® Low Energy, RFID, and a bi-state display. The ViewTag is backwards compatible with existing airport infrastructure and barcode scanners, yet is also designed with future compatibility in mind. Using a smartphone app, Andriod or iOS, passengers can send their itinerary information via Bluetooth® LE to their permanent digital luggage tag. The bi-stable display allows the ViewTag to consume virtually no power when in-between updates, resulting in a battery lifetime of over 500 writes. By allowing passengers to write this information digitally before they arrive at the airport, the ViewTag can significantly reduce the amount of time spent at check-in. The ViewTag is water and dust resistant. The strap allows for secure attachment while also allowing the tag to be interchangeable with bags.

DETAILED SPECIFICATIONS

Parameter	Rating	Unit
Operating temperature range	0 – 50	°C
Storage temperature range (without display degradation)	-25 – 60	°C
Storage temperature range (without damage)	-40 – 60	°C
Number of writes (per battery lifetime)	500	
Weight	93	gram
Dimensions	118 x 122 x 10	mm
Screen	4.05” E ink	
Battery chemistry	Lithium Manganese Dioxide	
Communication protocols	Bluetooth® Low Energy (Bluetooth 5.0 Capable)	
RFID	UHF	
Impact resistance	IK10 (IEC 62262 Standard)	

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FUNCTIONAL DESCRIPTION

SETUP & CONNECTION

The ViewTag setup requires the user to download the smartphone app. The user then fills in all of their itinerary information in the fields within the app. The user initiates the connection within the app and then completes the connection by pressing the power button on the ViewTag.

If the power button on the ViewTag is pressed and the LED blinks, and a connection isn't established within 15 seconds, the ViewTag will turn off and stop attempting connection.

If the power button is pressed and the LED does not illuminate, the user must wait at least 15 seconds before attempting another connection.

BLANKING THE SCREEN

In order to clear the ViewTag's display, the user must press and hold the power button on the ViewTag for approximately 2 seconds (the blue LED will double blink at 2 seconds), release the button, then press the button once more (without holding it). This will blank the bi-stable display and clear it of any existing data.

RECALLING THE SCREEN

In order to recall the ViewTag's display information after blanking, the user must press and hold the power button on the ViewTag for approximately 4 seconds (the LED will double blink at 2 seconds and again at 4 seconds), release the button, then press the button once more (without holding it). This will recall the bi-stable display and redisplay the information.

RFID

The airline is capable of updating the tag based on itinerary changes. Via RFID UHF readers, the airline can update the ViewTag's RFID memory. When in the presence of an RFID field, the ViewTag will automatically check for updates to its RFID memory and update the display information if required.

DEACTIVATION DURING FLIGHT

The ViewTag is in sleep mode until the power button is pressed. All radio communications are disabled to save power. Radio function is only active on a user initiated button press.

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Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement :
The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Industry Canada statement:

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:
The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations:
Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.
Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.