

VUSION Engage

Product Specification

SES-IMAGOTAG

Read all documents and system instructions carefully to minimize the risk of injuring persons and to avoid damage to the system or damage to the environment. Always keep all documents and guidance accessible.

If necessary, the content of this document will be updated. You can request the latest version of the document via pdm.hardware@ses-imagotag.com.

About ESLs

An electronic shelf label is a device that shows article data and price information on its display. In comparison to printed labels the information is automatically updated if price or article data changes.

In this product specification the focus is set on the product family VUSION Engage. With its 4-color displays it is a new product range and the line-up has the display sizes 1.6", 2.4", 3.0", 4.4" and 8.2".

General Key Features

- 2.4 GHz proprietary radio protocol
- Radio coverage: up to 25 meters
- Bi-directional communication
- 11 available communication channels
- Ultra-low power consumption
- Full graphical e-Ink display with paper-like readability
- New 4-color display technology
- Super wide viewing angle (nearly 180 degrees)
- Flexible mounting options available
- May be used in landscape and portrait mode
- Fast response time
- 128-bit AES encryption with secure key exchange
- Multiple pages support with preloading and fast page switching
- Integrated Passive NFC tag

The installation instructions are intended for trained electricians who can exhibit the following qualifications:

- Knowledge of the use of tools and work instructions.
- Knowledge of the usable conditions of the tool.
- Knowledge of the electrical safety instructions.
- Knowledge of the electrical building regulations.
- Knowledge of the relevant standards.

Knowledge of the assembly schedule

Overview about VUSION Engage labels

Caption	Model	Resolution	DPI	Display colors	Usable pages	Battery Type	Operating Voltage	Nominal capacity
VUSION Engage 1.6	EDE2-0160-A	168x168	144	b/w/r/y	4	Pouch Cell	3V	1100mAh
VUSION Engage 2.4	EDE2-0240-A	196x168	144	b/w/r/y	4	Pouch Cell	3V	1900mAh
VUSION Engage 3.0	EDE2-0300-A	400x168	144	b/w/r/y	4	Pouch Cell	3V	1900mAh
VUSION Engage 4.4	EDE2-0440-A	512 x 368	144	b/w/r/y	4	Pouch Cell	3V	1900mAh
VUSION Engage 8.2	EDE2-0820-A	1024 x 576	144	b/w/r/y	4	Pouch Cell	3V	3500mAh

General remarks

The SES-imagotag VUSION Labels must be installed according to the mounting instructions of the producer. In rare cases it may occur that the usage of wireless appliances is restricted by the building owner (e.g. Airport or Hospital). Please contact the appropriate authorities before installing the SES-imagotag VUSION Labels.

Environmental

General

E-Paper displays are moisture and UV sensitive. The absolute rating operating environments describes the boundary conditions for updating the display while the absolute rating storage environment (see Storage and warehousing) describes the boundary conditions for a display not updating.

	BWR R2.0	E5 BWRY
Operating temperature	0° C to +40° C	0°C - 40°C

Cleaning Instructions

Clean the electronic label with the help of a damp cloth. Use only common household cleaners.

Do not clean the label with alcohol, solvents and / or abrasive cleaning products.

Note: Do not use liquid or aerosol cleaners and keep it away from water.

Temperature and Humidity Conditions

High humidity combined with low temperature are not recommended.

Low temperature will reduce the battery lifetime.

Storage and warehousing

While displays are rated to perform according to specification for the warranty period at the absolute specified operating environment, the better the storage condition, the better the E-Paper displays will perform. Like other moisture and UV sensitive components, we recommend that our labels are stored in temperature and humidity-controlled environments, and whenever possible, under below defined Optimal Storage Conditions, away from sunlight, to optimize their performance.

It is strongly recommended to observe the following points to ensure the best operation, functioning and battery lifetime:

Storage temperature and humidity

	BWR 2.0	E5 BWRY
Storage temperature	-20° C to +50° C	-20° C to +50° C
Storage humidity	40% - 70%	40% - 70%

Intended Use

The VUSION electronic shelf label family is exclusively designed to connect to Access Points of the company SES-imagotag or acknowledged partners via radio.

The device may only be used in areas where the environmental fulfill the requirements described in the chapter “**Environmental**”.

Cleaning Instructions

Clean the electronic label with the help of a damp cloth. Use only common household cleaners. Do not clean the label with alcohol, solvents and / or abrasive cleaning products.

Note: Do not use liquid or aerosol cleaners and keep it away from water.

Improper use

SES-imagotag shall not be responsible for defects resulting:
 from use or storage which is harmful to the proper working of the product (e.g. abnormal use, incorrect maintenance and/or storage) and/or non-compliance with the applicable product environment specifications
 from a use of the product which does not comply with the recommendations and specifications of SES-imagotag
 from use or installation which is not compliant with the applicable functional description, or any other technical specifications provided by SES-imagotag

Please note the following handling instructions, non-compliance is considered improper use:



- Never open or disassemble the electronic device, only the battery may be replaced by trained users.
- Don't use the electronic device if it is defective. If the screen is defective, the ESL shall be replaced.
- Unauthorized changes or modifications to the electronic device and their components without the consent of SES-imagotag are not allowed.
- Don't use the electronic device with spare parts and accessories which are not tested and approved by SES-imagotag.
- Do not use labels above the lifetime/usage information (Display updates, LED usage, etc.) which was committed by contracts or given per datasheet
- Do not use labels out of specification / datasheet, e.g., use in ESLs in freezer area which – per datasheet – are not designed for such environment
- Please handle the ESL carefully.
- Prevent damage by water and intrusion of liquids into the label. Direct contact to water shall be prevented.
- Don't drop the label to the floor. If an ESL is dropped, check whether the label is still working or has any visible damages.
- Apply as little pressure as possible when inserting the ESL into the rail or when moving in the rail. Apply pressure only on the edge of the screen and at the level of the battery compartment, not on the screen itself. If the ESL is equipped with Easylock, only remove the ESLs from the rail with the provided tool for this purpose.
- Strictly avoid direct contact with groceries.
- Do not use harsh detergents containing alcohol or abrasive additives to clean the ESL
- Don't heat, charge, or bend the battery.
- We assume no liability for stolen labels.
- Keep the product and its batteries away from children.
- Don't throw the batteries into the garbage. Give them to a recycling company or contact SES-imagotag for handling advice.
- Don't throw the electronic device into the garbage. Give them to a recycling company or contact SES-imagotag for handling advice.

- Preferably transport all ESLs upright like in the original packaging. Never transport loosely packed labels
- Contact SES-imagotag for more details.

Certificates



Hereby, SES-Imagotag GmbH declares that the radio equipment VUSION Engage 1.6 (EDE2-0160-A), VUSION Engage 2.4 (EDE2-0240-A), VUSION Engage 3.0 (EDE2-0300-A), VUSION Engage 4.4 (EDE2-0440-A) and VUSION Engage 8.2 (EDE2-0820-A) is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: <https://www.ses-imagotag.com/en/electronic-shelf-labels/doc-vusion-labels/>



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.

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC rules apply to the following products: VUSION Engage 1.6 (EDE2-0160-A), VUSION Engage 2.4 (EDE2-0240-A), VUSION Engage 3.0 (EDE2-0300-A), VUSION Engage 4.4 (EDE2-0440-A) and VUSION Engage 8.2 (EDE2-0820-A)



This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC standards apply to the following products: VUSION Engage 1.6 (EDE2-0160-A), VUSION Engage 2.4 (EDE2-0240-A), VUSION Engage 3.0 (EDE2-0300-A), VUSION Engage 4.4 (EDE2-0440-A) and VUSION Engage 8.2 (EDE2-0820-A)