Human/Machine Interfaces
USB accessories for HMI terminals

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Human Machine Interfaces
USB accessories for HMI terminals

USB accessories (programmable with Vijeo Designer)

Monolithic USB tower lights

Description
- 3 multi-color LEDs
- Clear lens
- 2-tone buzzer (up to 85 dB at 1 m / 3.28 ft distance)
- Pre-assembled USB cable for easy connection
- USB cable clamp to help ensure firm connection

Degree of protection
IP 54

Dimensions
ø 60 mm / 2.36 in.

Power consumption
2 W

Product certifications
CE, UL, CSA, GOST, and RCM

Type of mounting/cut-out
Mounting on support tube with fixing plate: 4x Ø 6 mm / 0.24 in.
Direct mounting on horizontal support: 3x Ø 6 mm / 0.24 in.

Connection
USB cable with type A female connector:
- 300 mm / 11.81 in. for tube mounting
- 400 mm / 15.75 in. for direct mounting

Compatibility with Magelis
Magelis XBT GT/GC, HMI GK/GTO/GXO/SCU/G3U (1)

References
XVGU3SWV  XVGU3SNAV

Pages
Please refer to USB accessories for HMI terminal catalog on our website www.schneider-electric.com.

(1) Except GT1000 series of Magelis XBT GT

Illuminated USB switch

USB keyboard

Biometric USB switch

Description
- 5 customizable soft/static function keys
- Multi-color LED backlight or alarm acknowledgment
- USB keyboard with 12 keys and integrated LEDS that can be used as user customizable function keys or alphanumeric input keys
- Biometric USB switch manages access to HMI data via USB port
- Levels of authorization through fingerprint recognition
- Traceability of users and operations
- Database management from PC

Degree of protection
IP 66

Dimensions
80 x ø 31.5 mm / 3.15 x 1.24 in. (H x Ø W)
84 x 123 x 28 mm / 3.28 x 4.80 x 1.10 in. (H x W x D)
54 x 69.3 x 38.8 mm / 2.13 x 2.73 x 1.53 in. (H x W x D)

Power consumption
2 W or less 0.75 W or less 1.6 W max.

Product certifications
UL, CSA, CC and GOST

Type of mounting/cut-out
- M22 Mounted on flat surface/vertical surface
- USB mini-B cable
- USB type-B cable
- USB cable (1 m / 3.28 ft) with type A male connector cable

Compatibility with Magelis
Magelis Panel PC/Box PC, Magelis XBT GT/GC, HMI GK/GTO/GXO/SCU/G3U/G5U (1)

References
HMIZRA1 HMIZKB1 XBS55B2L2

Pages
Please refer to USB accessories for HMI terminal catalog on our website www.schneider-electric.com.
The USB accessories for Magelis™ are designed to expand the selection range of user applications by offering value-added/differentiated HMI solutions. These innovative USB accessories can be easily installed and operated with HMI terminals.

The USB accessories for Magelis terminals include:
- Harmony XVGU USB tower light
- Harmony XBSS biometric USB switch
- Magelis HMIZ illuminated USB switch
- Magelis HMIZ USB Keyboard

The following illustrates the configuration of USB accessories with Magelis HMIs.

1. The HMI application is created on a computer using the Vijeo Designer HMI configuration software. The application is then downloaded to the Magelis HMIs via a USB cable for:
   - Harmony XVGU tower light: Setting situation, colors, and buzzer actions (1)
   - Harmony XBSS biometric USB switch: Managing the fingerprint database and login of users through fingerprint recognition (1)
   - Magelis HMIZ illuminated USB switch: Setting and operating as alarm console (display and acknowledgement) or illuminated function keys (1)
   - Magelis HMIZ USB Keyboard: Operating in alphanumeric input or function key mode with a real sense of clicking (2)

2. The USB accessories are connected to Magelis HMI terminals by a USB cable for power supply and data transmission (except for biometric USB switch which has a stand-alone 24 V power supply). Each Magelis HMI terminal can also support two or more USB accessories (one of each kind) via a USB hub with an external power supply.

The following table lists the Magelis HMIs that are compatible with USB accessories.

<table>
<thead>
<tr>
<th>Magelis HMIs</th>
<th>USB accessories for HMI terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>USB tower light</td>
</tr>
<tr>
<td></td>
<td>Biometric USB switch</td>
</tr>
<tr>
<td></td>
<td>Illuminated USB switch</td>
</tr>
<tr>
<td></td>
<td>USB Keyboard</td>
</tr>
<tr>
<td>XVGU3S***</td>
<td>Yes</td>
</tr>
<tr>
<td>XBSB2L2</td>
<td>Yes</td>
</tr>
<tr>
<td>HMIZRA1</td>
<td>Yes</td>
</tr>
<tr>
<td>HMIZKB1</td>
<td>No</td>
</tr>
<tr>
<td>Magelis Panel PC</td>
<td>No</td>
</tr>
<tr>
<td>Magelis BOX PC</td>
<td>Yes</td>
</tr>
<tr>
<td>XBTGT (except GT1000 series)</td>
<td>Yes</td>
</tr>
<tr>
<td>XBTGK</td>
<td>Yes</td>
</tr>
<tr>
<td>XBTGC</td>
<td>Yes</td>
</tr>
<tr>
<td>HMIGTW</td>
<td>Yes</td>
</tr>
<tr>
<td>HMIGTO</td>
<td>Yes</td>
</tr>
<tr>
<td>HMIXCO</td>
<td>Yes</td>
</tr>
<tr>
<td>HMISTU</td>
<td>No</td>
</tr>
<tr>
<td>HMISTO</td>
<td>No</td>
</tr>
<tr>
<td>HMISCU</td>
<td>Yes</td>
</tr>
</tbody>
</table>

(1) Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 1.
(2) Compatible with Vijeo Designer HMI configuration software V6.2 or higher.
The monolithic USB tower lights of the Harmony® XVGU range supports Magelis HMIs (1). These tower lights with multi-color LEDs are unique and simple-to-use as the states and patterns are directly set and modified in the HMI application.

The XVGU tower lights provide long distance indication of the operating status or sequences of a machine or installation, both visually by illuminated signaling units with 360° visibility, and audibly by a buzzer.

- The tower light comes with a pre-assembled USB cable for simple wiring and easy integration with the Magelis HMIs (1) (2).
- The tower light settings are selected from the Set screen of the HMI application at the time of integration.
  - The multi-color LEDs on the three levels can be set to numerous color combinations (red, orange, green or blue) for sophisticated signaling.
  - The 2-tone buzzer volume and alarm type (4 pre-recorded types) can be set easily.
- The tower lights allow to optimize your equipment: many customized configurations can be made from a sole product.
- The range involves Ø 60 mm/2.36 in. products and is therefore ideal for use in many activity sectors (textiles, packaging, baggage handling). It is also ideal for use with metal tools, plastic extrusion machines and assembly lines. This range is only for indoor applications.

XVGU tower lights are supplied:
- with 3 multi-color LEDs and a clear lens
- with a 2-tone buzzer
- with pre-assembled USB cable for easy connection (2)
- with USB cable clamp for firm connection
- fitted with one of the following mounting options:
  - direct base mounting (IP 54)
  - aluminium tube mounting and fixing plate (IP 54)

**Environment**
- Product certifications: CE, UL, CSA, GOST, and RCM
- Conformity to standards:
  - IEC 61000-6-2
  - IEC 61000-6-4
  - UL 508
  - CSA C22.2 No 14-13
- Degree of protection:
  - IP 54
- Ambient air temperature:
  - For storage: -35 to +70 °C/ -31 to +158 °F
  - For operation: 0 to +55 °C/32 to +131 °F

---

(1) Compatible with XBTGT (except GT1000 series), XBTGC (with SoMachine platform), XBTGK and HMIGTO terminals.

(2) For extension, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A mini B cable of maximum length 4 m/13.12 ft.
**Presentation (continued)**

**Illuminated signaling**

The light source consists of three multi-color LEDs (red, orange, green, or blue) completed with a clear lens to provide an aesthetic look and reliable signaling (clear lenses help to avoid color reflectance in bright environments). When LEDs are not powered, the tower lights appear translucent. The LED colors can be set to many possible combinations of red, orange, green, and blue.

**Audible signaling**

The tower light is supplied with a 2-tone buzzer audible signaling unit, the volume of which can be adjusted up to 85 dB. This audible unit with 4 pre-recorded alarm types is located in the base of the tower light.

**Cabling**

XVGU tower lights have pre-assembled USB cable with "Type A female" connector to attach to any standard USB mini B cable. A clamp is provided to prevent unintended removal or disconnection of the tower light from the Magelis HMI.

**Description**

XVGU monolithic tower lights comprise an assembly of:

1. Three layers of multi-color illuminated signaling units (red, orange, green, or blue) which are set in the HMI application. Each XVGU tower light is equipped with multi-color LEDs and a clear lens molded from a single piece of clear plastic. The colors are visible only when the LEDs are supplied with power (5 V).

2. A base unit integrating the buzzer.

3. A fixing base for mounting on a horizontal support:
   3a a fixing base, comprising a 100 mm/3.94 in. aluminium support tube mounted on a fixing plate
   3b a fixing base fitted with 3 screws for direct mounting

4. A USB cable with "Type A female" connector, the projecting length being 300 mm/11.81 in. for tube mounting and 400 mm/15.75 in. for direct mounting models (1).

(1) For extension, use either the Schneider Electric USB cable (BMXXCUSBH018) or a third-party USB Type A mini B cable of maximum length 4 m/13.12 ft.
Pre-assembled tower lights --- 5 V, Ø 60 mm/2.36 in.

<table>
<thead>
<tr>
<th>Description</th>
<th>Light source (included)</th>
<th>Compatible with terminals (1)</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tower light composed of 100 mm/3.94 in. aluminium tube mounting, fixing plate and buzzer</td>
<td>Multi-color LED for various states and patterns (red, orange, green, or blue)</td>
<td>XBTGT (except GT1000 series) XBTGC (with SoMachine platform) XBTGK HMIGTO HMIGXO HMISCU</td>
<td>XVGU3SHAV</td>
<td>0.300/0.661</td>
</tr>
<tr>
<td>Tower light composed of direct base mounting and buzzer</td>
<td>Multi-color LED for various states and patterns (red, orange, green, or blue)</td>
<td>XBTGT (except GT1000 series) XBTGC (with SoMachine platform) XBTGK HMIGTO HMIGXO HMISCU</td>
<td>XVGU3SWV</td>
<td>0.300/0.661</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Function</th>
<th>Length</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection cable from PC to the terminal (USB Type A/mini B)</td>
<td>Cable for transferring screen data from a PC (USB Type A) to a HMI (USB Type mini B)</td>
<td>1.8 m/5.91 ft</td>
<td>BMXXCAUSBH018</td>
<td>0.085/0.143</td>
</tr>
</tbody>
</table>

(1) Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 1.

Note: Signaling colors correspond to a combination of 4 colors (red, orange, green, and blue) which can be set easily in the HMI application.
USB accessories for HMI terminals
Harmony XB5S
Biometric USB switch

Presentation
The XB5S biometric USB switch of the Harmony XB5S range controls and secures access to systems and machines by checking users’ authorization through fingerprint recognition.

The biometric USB switch is connected permanently with Magelis HMI (1) via the USB port to communicate and manage the user database. They are widely used in industry (molding and bottling machines, material handling, forklift, robot, automated machines) and buildings (test zones, high value areas, stock areas).

The user database can be visualized, configured, and modified by Vijeo Designer HMI configuration software (2) in Build Time and Run Time. This software enables the biometric USB switch to authorize different access levels and trace HMI operations of each user. The fingerprint records also can be erased in the absence of users.

The switch operates on 24 V and provides protection against:
- Reverse polarity
- Overload and short-circuit (switching capacity ≤ 200 mA)

Mounting
The product is monolithic (a single plastic housing) and is fixed by a nut (hand-tightened without need for tools) in a standard 22.5 mm/0.886 in. diameter hole. It can be installed on a flat, horizontal, or vertical surface.

A protective cover is available as an accessory to protect the active face of the sensing screen. This cover is fixed using a self-adhesive hinge.

A Female/Female USB extension cable makes it possible for the USB biometric switch to have the female USB port within a 22 mm/0.866 in. diameter hole on the control panel front.

Environment
- Product certifications: UL, CSA, GOST, and 
- Conformity to standards:
  - CSA C22-2 n° 14
  - UL 508
  - IEC 61000-6-2 and IEC 61000-6-4
- Degree of protection conforming to standards:
  - IP 65 for IEC 60529
  - NEMA 4X for NEMA 250
- Ambient air temperature:
  - For storage: -25 to +70 °C/-13 to +158 °F
  - For operation: -5 to +50 °C/-23 to +122°F

Description
The USB biometric switch consists of a dark gray housing with a sensing screen (1) for fingerprints on its front face.

(1) Compatible with Magelis iPC (with Vijeo Designer Run Time), HMISTU/GXO/GTO/GTW and XB1GT (except GT1000 series)/IK/GC (with SoMachine Platform).
(2) Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 2.
Note: The user database is encrypted and cannot be downloaded from biometric switch to HMI.
# USB accessories for HMI terminals

## Harmony XB5S

### Biometric USB switch

<table>
<thead>
<tr>
<th>Description</th>
<th>Connection</th>
<th>Compatible with Terminals (1)</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB biometric switch dedicated to Schneider HMI</td>
<td>By 2 m/6.56 ft cable</td>
<td>Magelis Panel PC and BOX PC (with Vijeo Designer Run Time) XBTGT (except GT1000 series) XBTGK XBTGC (with SoMachine Platform) HMIGTW HMIGTO HMIGXO HMISTU HMISCU</td>
<td>XBSSSB2L2</td>
<td>0.202/0.445</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Function</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel-mounted USB and ports in Ø 22.5mm/0.886 in. hole with notch</td>
<td>USB 3.0 interface A-A connection type for connecting biometric switch to the PC via the Ø 22 mm/0.866 in. hole on the control front panel</td>
<td>XB5PUSB3</td>
<td>0.017/0.037</td>
</tr>
<tr>
<td>Plastic protection cover Ø 22 mm/0.866 in.</td>
<td>Protection of USB port</td>
<td>ZBSP1</td>
<td>0.002/0.004</td>
</tr>
<tr>
<td>Rigid plastic protection cover Ø 22 mm/0.866 in.</td>
<td>Protection of USB port</td>
<td>ZBSP2</td>
<td>0.006/0.013</td>
</tr>
<tr>
<td>Metal protection cover Ø 22 mm/0.866 in.</td>
<td>Protection of USB port</td>
<td>ZBSP3</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Protective cover, translucent and self-adhesive</td>
<td>Protection of sensing screen</td>
<td>ZBSSZ70</td>
<td>0.020/0.044</td>
</tr>
<tr>
<td>Fixing nut Ø 22 mm/0.866 in.</td>
<td>Spare part</td>
<td>ZBSSZ71</td>
<td>0.030/0.066</td>
</tr>
<tr>
<td>Legend plate 27 x 8 mm/1.06 x 0.32 in., self-adhesive, blank, black background</td>
<td>For engraving</td>
<td>ZBY0101T</td>
<td>0.005/0.011</td>
</tr>
</tbody>
</table>

(1) Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 2 for all terminals except HMISCU which is compatible with V6.1, Service pack 3.
USB accessories for HMI terminals
Magelis HMIZ
Illuminated USB switch

Presentation
The illuminated USB switch is uniquely designed for easy visualization and quick acknowledgement of alarm (wide view angle and brightness). This switch with click sensation is also used as a function key in HMI applications where the touch panel involves repetitive and reliable operations in dirty environments. This keeps the touch panel clean and protected by avoiding continuous finger contact.

The illuminated USB switch can be easily wired, powered by the USB cable and integrated with the Magelis HMI. This range is ideal for use in industrial applications like machine tool, packaging, printing, automotive, metal processing, food and beverage, and paper.

With Vijeo Designer HMI configuration software (1), the illuminated USB switch can be set to the following:
- Alarm display and acknowledgement:
  - The 5 multi-color LEDs are configured in the Vijeo Designer (1) to display single or multiple alarm statuses. The users can quickly access these operations of alarm acknowledgement by pressing the integrated function keys.
- Illuminated function keys:
  - The illuminated USB switch can be used as function keys by configuring them in the Vijeo Designer software (1). The 5 multi-color LEDs are linked to the PLC variables to show the status of operation feedback.
  - Vijeo Designer software can configure the function keys to support most of the HMI touch panel operations.

Mounting
The illuminated USB switch is fixed by a nut (hand-tightened without a tool or tightened by a wrench) in a standard 22 mm/0.866 in. diameter hole. It can be installed on flat and vertical surfaces.

Environment
- Product certifications: UL, CSA, and GOST
- Conformity to standards:
  - CSA C22-2 n° 142
  - UL 508
  - IEC 61000-6-2 and IEC 61000-6-4
- Degree of protection conforming to standards:
  - IP 65 for IEC 60529
  - NEMA 4X for NEMA 250
- Ambient air temperature:
  - For storage: -20 to + 60 °C/-4 to +140 °F
  - For operation: 0 to + 55 °C/32 to +131 °F

Description
The illuminated USB switch consists of a green rear cover 1 and a dark gray front cover 2. There are 5 function keys 3 on its front face with LED backlit. Each function key 4 has one multi-color LED indicator (green, red, orange, blue, yellow and white).

A insert label sheet, comprising of 3 customizable labels, is supplied with the illuminated USB switch.

(1) Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 2.
USB accessories for HMI terminals
Magelis HMIZ
Illuminated USB switch

References

Illuminated USB Switch

<table>
<thead>
<tr>
<th>Description</th>
<th>Connection</th>
<th>Compatible with Terminals (1)</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illuminated USB switch</td>
<td>By USB cable</td>
<td>Magelis Panel PC and BOPTPC (2)</td>
<td>HMIZRA1</td>
<td>0.110/0.243</td>
</tr>
<tr>
<td>composed of 5 switches with backlit LED.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allows the selection and adjustment of colors by the user.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 V (+)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Spare parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory kit for HMIZRA1 which includes:</td>
<td>HMIZKITRA1</td>
<td>--</td>
</tr>
<tr>
<td>■ 5 installation nuts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>■ 5 anti-rotation tees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>■ 5 USB clamps type B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 insert label sheets for HMIZRA1 switch (3 customizable labels per sheet)</td>
<td>HMIZLYRA1</td>
<td>--</td>
</tr>
<tr>
<td>5 gaskets for HMIZRA1 switch</td>
<td>HMIZU50</td>
<td>--</td>
</tr>
</tbody>
</table>

(1) Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 2 for all terminals except HMISCU which is compatible with V6.1, Service pack 3.
(2) When HMIZRA1 illuminated USB switch is ordered, all spare parts are included in the same package.
Presentation

The USB Keyboard is designed for flexible mounting and easy plug-&-play handling. The tactile keys are suited for HMI applications where the touch panel involves repetitive operations in harsh environments (oil, dust, etc). This also speeds up the data entry by the operator and provides freedom in screen design.

The users can select small size HMIs and use USB Keyboard to save the control panel space. This range is ideal for use in industrial applications like food & beverage, machine tool, and packaging.

The USB Keyboard keys can be used in two different modes:
- **Function mode (default)**
  - 2 function keys can be pressed simultaneously
  - Shift key + Function key can be pressed simultaneously
- **Entry mode**
  - Alphanumeric input (similar to the old mobile phone keypad)
  - Numeric input

Mounting

The USB Keyboard is fixed into the 22.5 mm/0.880 in. diameter panel cut-out by a installation nut (hand-tightened without a tool or tightened by a tightening wrench). It can be installed on flat and vertical surfaces.

Environment

- **Product certifications:** CSA, GOST-R, KCC, cc and UL
- **Conformity to standards:**
  - CSA C22-2 n° 142/ CSA C22-2 n° 213
  - UL 508
  - IEC 61000-6-2 and IEC 61000-6-4
  - ANSI/ISA 12.12.01
  - WEEE
  - RoHS
  - REACH
- **Degree of protection conforming to standards (2):**
  - IP 65 for IEC 60529
  - NEMA 4X for NEMA 250
- **Ambient air temperature:**
  - For storage: - 20 to + 60 °C/- 4 to +140 °F
  - For operation: 0 to + 55 °C/32 to +131 °F

Description

Front view

The USB Keyboard consists of:
1. Power LED
2. Function LED
3. 12 Function keys/Alphanumeric input keys
4. 8 System keys
5. Dark gray front cover
6. Shift lock LED

Rear view

7. Green rear cover
8. USB slave Type mini-B
9. Anti-rotation tee
10. Standard M22 installation

(1) Compatible with Vijeo Designer HMI configuration software V6.2 or higher.
(2) Protection for the USB Keyboard front panel when properly installed in an enclosure.
# USB accessories for HMI terminals

## Magelis HMIZ

### USB Keyboard

- **Description**: composed of keys which can be used as user customizable Function keys or Alphanumeric input keys
- **Connection**: By USB cable HMIGTO, HMIGXO, HMISTU, HMISTO, HMISCU
- **Compatible with Terminals**: HMIZKB1
- **Weight**: 0.150/0.330 kg/lb

### Spare parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory kit for HMIZKB1 which includes: 5 anti-rotation tees and 5 USB cable clamps to prevent disconnection (USB type mini-B, 1 port)</td>
<td>HMIZKITKB1</td>
<td>–</td>
</tr>
<tr>
<td>Replaceable label for function keys (5 sheets)</td>
<td>HMIZLYKB1</td>
<td>–</td>
</tr>
<tr>
<td>Wall mounting adaptor to mount HMIZKB1 on a wall</td>
<td>HMIZWMKB1</td>
<td>–</td>
</tr>
<tr>
<td>10 Installation nuts of 22 mm/0.866 in. for tightening</td>
<td>ZB5AZ901</td>
<td>–</td>
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<tr>
<td>Tightening wrench to tighten and loosen installation nuts</td>
<td>ZB5AZ905</td>
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1. Compatible with Vijeo Designer HMI configuration software V6.2 or higher.
2. When HMIZKB1 USB Keyboard is ordered, all spare parts are included in the same package.
3. If USB keyboard is used with Wall mounting adaptor HMIZKB1, the UL conformity assured in USB keyboard will not apply.
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