bene

IDEA WALL

& Suite by HOYLU

The IDEA WALL provides almost unlimited space for your ideas. The smart Suite of software and technology package is developed by Hoylu (previously We-inspire). It transforms Bene wall products into multimedia innovation surfaces. Up to seven people can navigate, write, and draw on the interactive projection surface at the same time using digital pens. It is easy to learn how to work on the Wall because it is so intuitive. And if anyone prefers to work with a pen and paper they can still project their handwritten notes onto the Wall. The IDEA WALL connects people, ideas, and technology, facilitating a completely new way of working. The results of creative meetings, presentations, and brainstorming sessions can be saved and distributed electronically with ease. This provides ideal support for innovation processes and documents them at the same time.


*Available in AT, D, CH, FR, BENELUX, and UK as standard.
Please speak to your Bene Sales contact for availability in other markets.
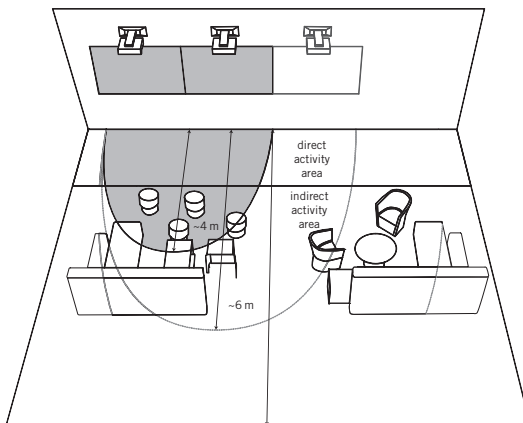
REQUIREMENTS

REQUIREMENTS FOR YOUR ROOM
· Vibrations caused by air-conditioning systems, doors, walls, ongoing construction, etc., should be avoided.
· Please be aware of the lighting conditions in the room and avoid direct sunlight.
· Factor in adequate cables and cable trays (video cables as well as power cables for the projectors).

The standard settings include two or three projectors.
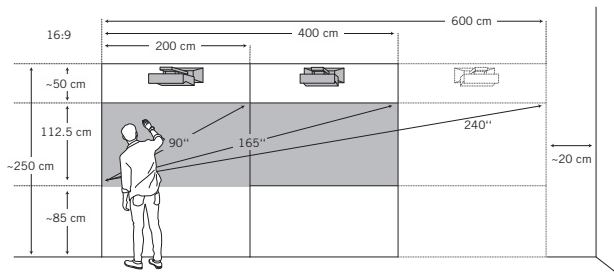
The standard projection format is set at 16:9.

The distance to the adjacent walls should be at least 20 cm.

The direct field of action should be easily accessible and free from tripping hazards; you should factor in around 2 metres.

The depth of the indirect field of action should correspond at least to the projection area.
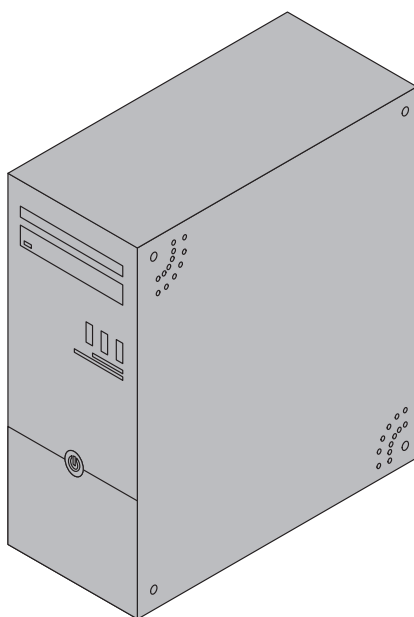
REQUIREMENTS FOR YOUR PC
For the Hoylu system you need a PC with Windows® and a graphics card in order to be able to connect a projector with an HDMI cable.

Processor: Intel Core i7 or Xeon (min. 3.00 GHz)
Hard drive: min. 250 GB (SSD recommended)
Memory: min. 4 GB DDR3 (8 GB recommended)
Graphics card: Graphics card (none on board)
          DirectX 11 or higher. video memory: min. 1 GB (4 GB recommended)
          2 projectors: memory bandwidth: min. 128 bit (192 bit recommended)
          3 projectors: memory bandwidth: min. 192 bit (265 bit recommended)
          1 digital outlet per projector (DVI/HDMI/DP)
          + HDMI adapter
          Warning: Matrox cards are not supported.
Operating system: Windows® 7 (32 or 64 bit)
          Windows® 8 (32 or 64 bit) or
          Windows® 8.1 (32 or 64 bit)
          Windows® 10 (32 or 64 bit)
**Connections:** min. 3 x USB 2.0, RJ45 (LAN)
Capture hardware (optional): Full-size PCIe x 4 Slot required.

Note: We recommend to use Logitech k830 keyboard.
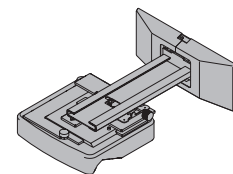
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OVERVIEW

1. SUITE BY HOYLU

The Co-Creation Studio is a technology package consisting of multiple hardware and software components. The centrepiece is the software developed by Hoylu itself, consisting of 4 applications that enable users to navigate, draw, and write on the interactive projection area. The digital pen technology and the associated dot grid, transform handwritten notes into digital material. The information is transmitted from the pen to the PC via Bluetooth, using a specially patented arrangement of tiny dots on projection film and paper.
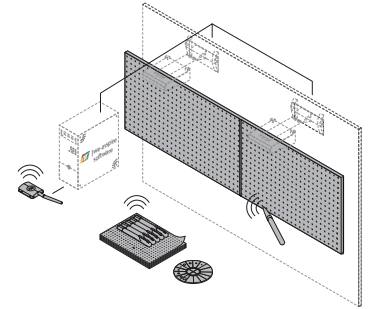
2. PROJECTOR (suitable for IDEA WALL)
NEC U321H Ultra-Short-Throw Projector
· Resolution 1.920 x 1.080 (1.080p)
· ANSI lumen 3.200
· Contrast 10.000:1
· Projection factor 0.25:1
· Real w/d/h (mm): 378/428/160
· Weight (kg): 4.70
· With wall-mounted bracket
· Projector colour: White
· Plug-type: A (IEC: F)

3. IDEA WALL ON NOOXS
Room-shaping, flexible, modular: NOOXS, the innovative wall system from Bene, creates nooks for collaboration in open-plan work spaces. The solid wall elements can be used to form a wide range of room settings, or can be transformed into an IDEA WALL. The IDEA WALL on NOOXS is completely free-standing and is easy to set up and dismantle.
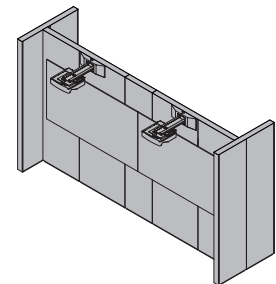
4. IDEA WALL ON W4 WALL-TO-WALL
Bene's W4 Wall-to-Wall is an interior design element used to convert existing drywall or brick walls into functional office walls. Special wall rails provide excellent load distribution, which can support various hanging storage elements, as well as allowing for an upgrade to the IDEA WALL.
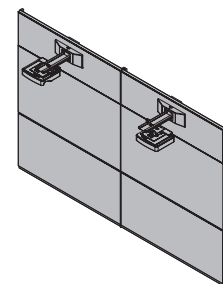
5. T-CADDY MEDIA
The T-Caddy Media is the ideal accompaniment to the IDEA WALL. The top-flap can be used to store the charger for digital pens, as well as the tool palettes, keyboard, and mouse. The Bluetooth receiver has its own separate storage place, and the PC can also be stowed away neatly with easy access.
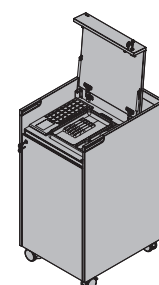
PRODUCT DESCRIPTION

1. SUITE BY ✕ HOYLU

The Hoylu Suite is the software developed by Hoylu, consisting of four applications that enable users to Collaborate, plan, ideate and create on the interactive projection area. Each Hoylu app in the Suite supports multiple users and can be used either on one area or on the entire projection area. With Anytime Collaboration, multiple users can work in the same document from different locations and devices, both simultaneously and at different times. All data is encrypted and stored in the Microsoft Azure Cloud in Europe and can be accessed anytime and anywhere.

SOFTWARE APPLICATIONS

HOYLU FLOW

Hoylu Flow
Designed for complete process planning, mind mapping, and brainstorming. Hoylu Flow allows you to create and plan your projects on an intuitive collaboration canvas of unlimited size. Includes support for most process methodologies like Agile, BIM, LEAN, PHP, Six Sigma and others, as well as the ability to import common file formats like JPG, PNG, PPT, and PDF.

HOYLU SKETCH

Hoylu Sketch
Draw, paint, scribble and design everything from rich illustrative concepts to simple team notes and share them with the world. Hoylu Sketch allows you to quickly and intuitively create using a wide array of tools familiar to designers but without the learning curve of advanced creative tools. Hoylu Sketch contains an unlimited canvas and can connect many different users together for true remote collaboration (only with Hoylu Cloud package).

HOYLU PAPER

Hoylu Paper
Bring the simplicity of pen and paper to your workspace through Hoylu's innovative analog to digital technology. Using a Bluetooth connected pen write, draw, or collaborate on physical paper that is instantly made digital. Every stroke of the pen is recorded, allowing for real-time playback of drawings, and all digital content can be imported into Hoylu Flow and Sketch for further digital manipulation and enhancement.

HOYLU CAPTURE

Hoylu Capture (Hoylu Capture Card hardware required)
Allows content on laptops or other mobile devices to be displayed. Connect your device via cable (or wirelessly, using Barco Clickshare or Apple TV → not included) in order to share your content and images on the IDEA WALL, or to process content further on the Wall. One full-size PCIe x4 slot required. Resolution: up to 1080p (Full-HD) at 60 FPS
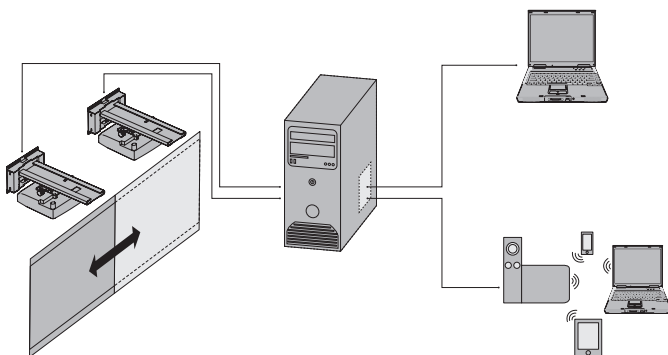
SW + HW DUAL package (dual input)
Simultaneous connection of two devices
Input:
1x Datapath VisionRGB-E2S (PCIe) – Hoylu Capture Card
2x DVI-I also supports HDMI and VGA via an adapter (included)

PRODUCT DESCRIPTION

1. SUITE BY ✕ HOYLU

The digital pen technology is an essential component of the Suite.
The pens and the associated dot grid transform handwritten notes into digital material.

TECHNOLOGY

Digital pen
There is a camera inside the pen that takes pictures at a speed of around 100 frames per second. The information is transmitted from the pen to the PC via Bluetooth, using a specially patented arrangement of tiny dots on projection film and paper. The pen can save up to ten pages of A4, so that the data can also be transferred subsequently from the pen to the PC.
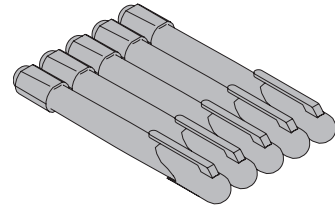
Connection: Bluetooth 2.0/4.0
Battery: Li-Polymer
Battery life: constant 5 hours, normal usage 3 days
Standby operation: 125 days
Refill: Standard D1 type (plastic/ink)
Resolution: tracking: ~1.100 dpi, pressure: 256 levels
Scanning rate: 120 Hz
Weight: 22 g
Dimensions: 156.5 x 11.5 x 11.8 mm
Internal memory: ~1.000 pages

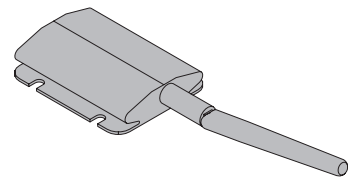**Bluetooth receiver for digital pen**
Type: Bluetooth 2.1+EDR with 802.11 tolerance (AFH)
Antenna: Omnidirectional antenna with 3dBi gain
Output: mini USB. 5 V. 300 mA
Number of pens: up to 7 per Bluetooth receiver
**Range:** up to 300 metres

Projection film with dot grid
The film allows the pen to be located on its surface. It also serves as a high quality projection area. The film can be attached in different ways (self-adhesive, magnetic) and does not need to be wired.

**Surface:** matt, scratch-resistant laminate with dot grid printed on
Area: light grey
Cleaning: Standard cleaning material (window cleaner) and/or white eraser for removing ink remnants
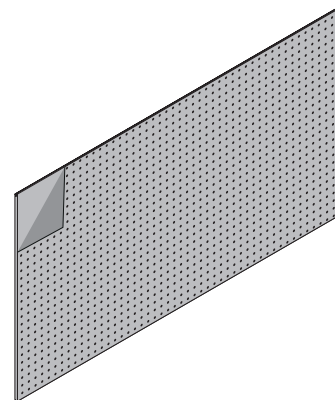
Tool palettes
Inspired by the traditional painter's palette, users can choose between colours and tools by tapping on the palette with the pen. Different versions are available for beginners and experts. The analogue version of the tool palette is also available digitally.
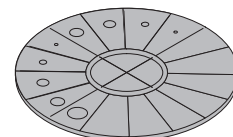
Material: Acrylic panel with dot grid printed on
Dimensions: 90 x 90 x 5 mm

PRODUCT DESCRIPTION

1. SUITE BY HOYLU

"Get Paper" – Paper with dot grid for download and printing
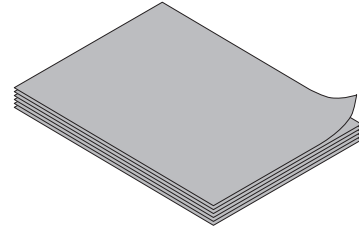With the Hoylu software you can print the dot grid on normal paper using your laser printer.

Paper: Standard laser printer paper
Format: A4 or Letter format
Number of pages: 100 individual pages
Download: PDF download link available via Hoylu Paper
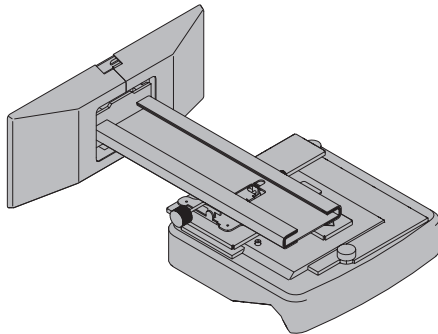**Print:** Instructions available via Hoylu Paper

Type: Colour laser printer
Resolution: min. 600 dpi
Driver: Postscript (PS) driver

Settings:
· Print with premium quality / resolution
· Adjust page: "actual size" (no scaling! 100%)
· Disable "image optimisation settings"

2. PROJECTOR

Projector requirements
Ultra short throw projectors enable high resolution on a large projection surface with no gaps. This results in a seamless interactive surface for an unmatched price / performance ratio.

PROJECTOR (suitable for IDEA WALL)
NEC U321H Ultra-Short-Throw Projector
· Resolution 1.920 x 1.080 (1.080p)
· ANSI lumen 3.200
· Contrast 10.000:1
· Projection factor 0.25:1
· Real w / d / h (mm): 378 / 428 / 160
· Weight (kg): 4.70
· With wall-mounted bracket
· Projector colour: White
· Plug-type: A (IEC: F)

Important: The brightness of projectors with traditional light sources decreases with use. Some projectors may potentially feature slight variations in colour and uniformity of image. Projector brackets can shift slightly and may need to be recalibrated, particularly in environments featuring wall vibrations triggered by traffic, air-conditioning systems, doors, etc.
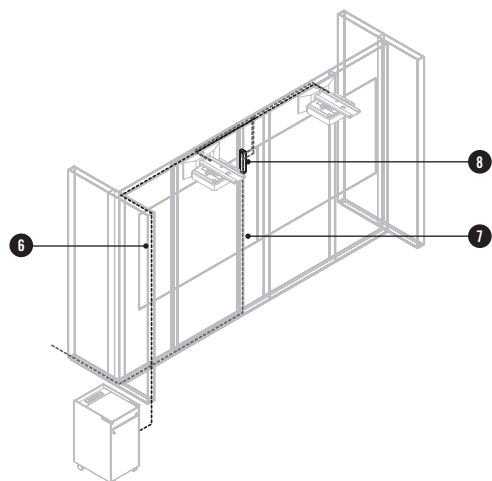
PRODUCT DESCRIPTION

3. IDEA WALL ON NOOXS

1 **Wall element**

2 **Technical element**

3 **Projector bracket**

4 **Projector (NEC U321H)**

5 **Projection screen***

* **Please note:** For assembly purposes, it is important that the surface of the NOOXS wall elements behind the projection screen are not made of "fabric".
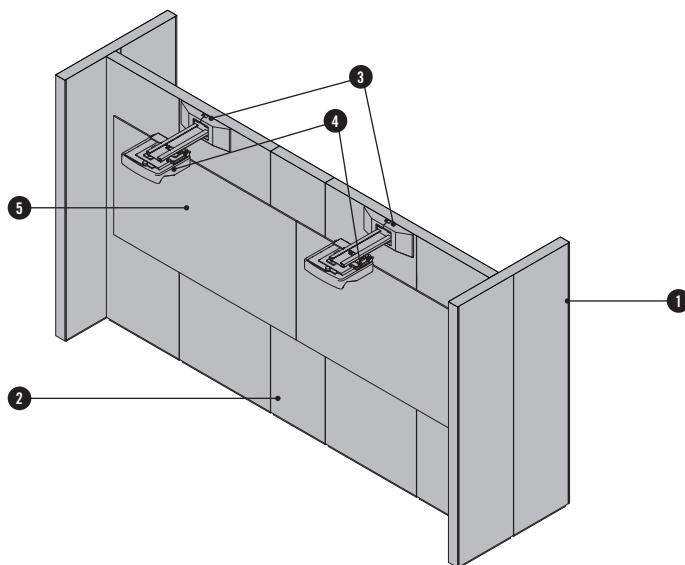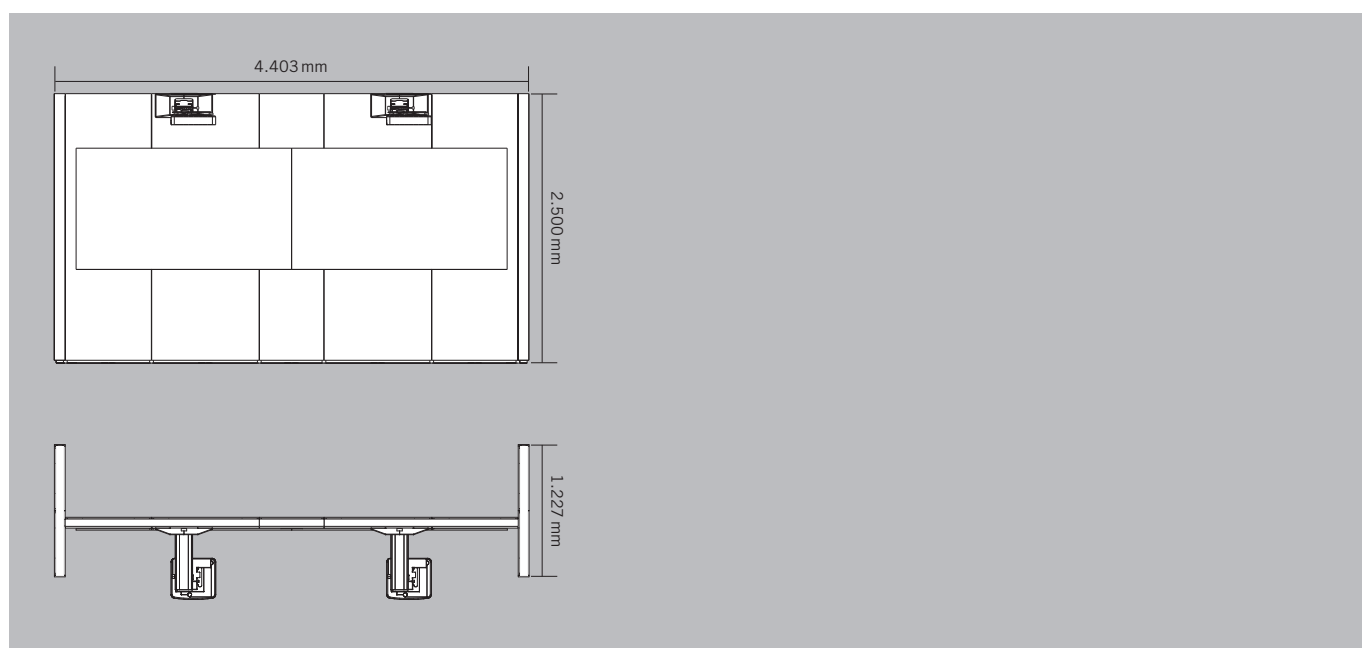

NOOXS, IDEA WALL CABLING

6 **HDMI**

7 **Electricity**

8 **Connection plug board**
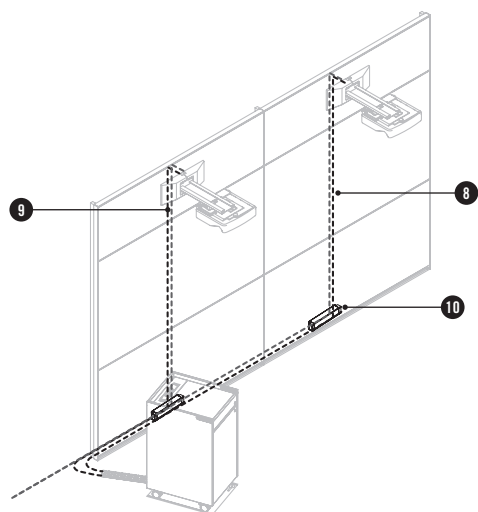
DIMENSIONS

4.403 mm

2.500 mm

1.227 mm

PRODUCT DESCRIPTION

4. IDEA WALL ON W4 WALL-TO-WALL

❶ **Cover profile**

❷ **Projector panel**

❸ **Projector bracket**

❹ **Projector (NEC U321H)**

❺ **Projection panel**

❻ **Melamine or veneer panel**

❼ **Base profile**
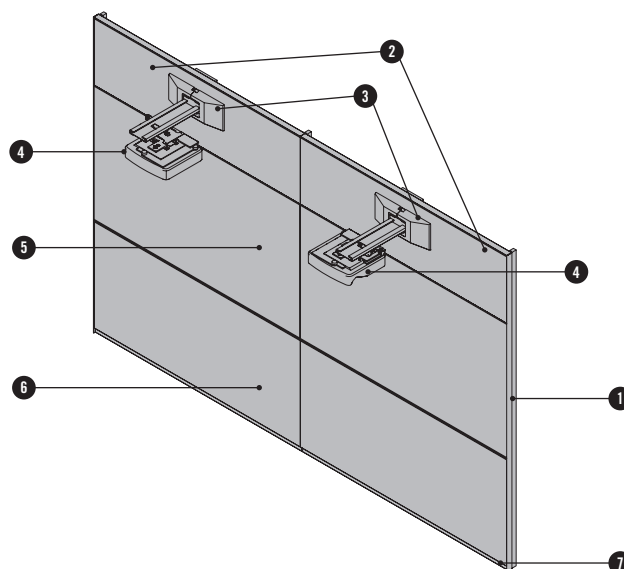
W4 WALL-TO-WALL, IDEA WALL CABLING

❽ **HDMI**

❾ **Electricity**

❿ **Connection plug board**

DIMENSIONS

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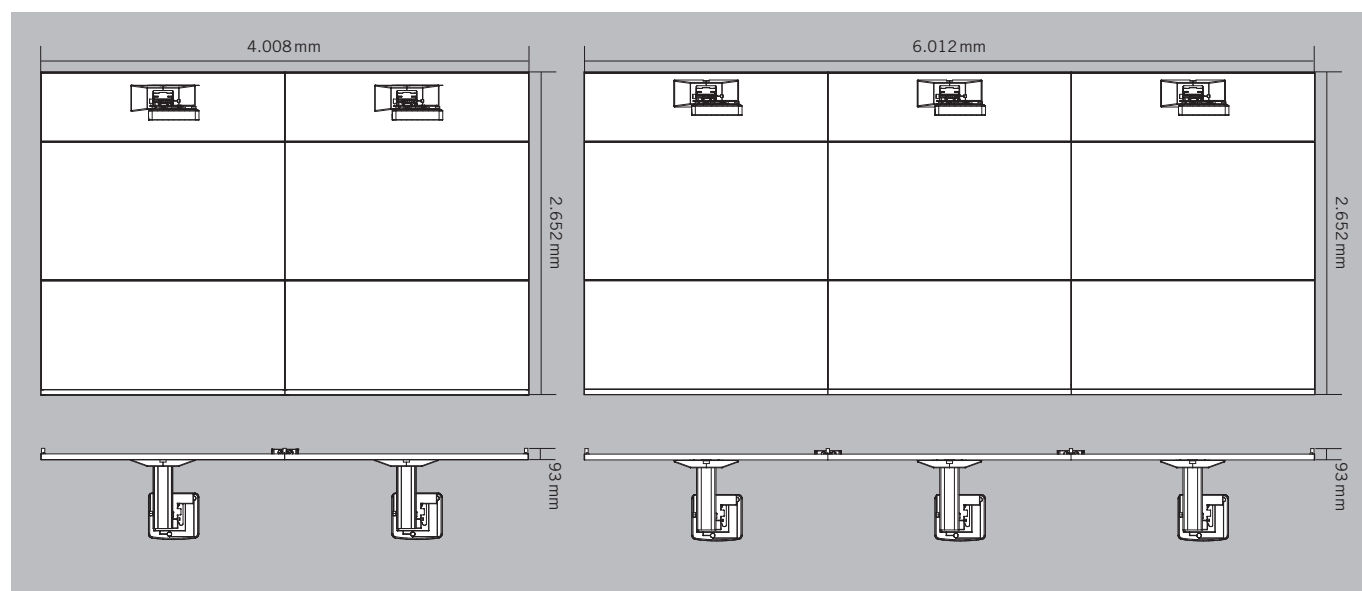
PRODUCT DESCRIPTION

5. T-MEDIA CADDY

1 Top flap
2 Visible side
3 Hinged door
4 Castors
5 Back panel
6 Top
7 Accessory tray
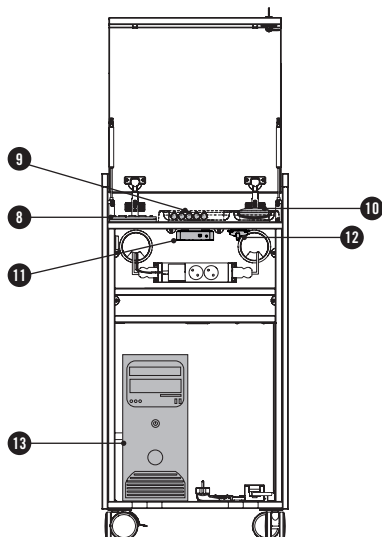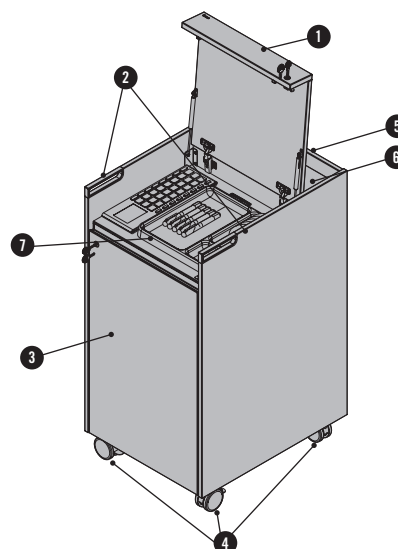
8 Keyboard
9 Digital pens
10 Tool palettes
11 USB hub
12 Bluetooth extender
13 PC

PC installation dimensions incl. cable

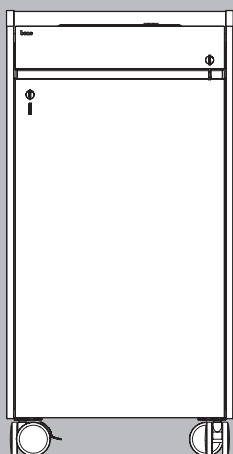T-Caddy Media small:
W: 348 mm
D: 580 mm
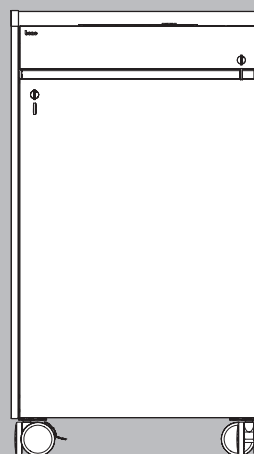H: 475 mm

T-Caddy Media large:
W: 408 mm
D: 580 mm
H: 475 mm

DIMENSIONS

W: 500 mm
D: 620 mm
H: 988 mm

560 mm
620 mm
988 mm

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INSPIRATIONS

NOOXS, IDEA WALL
Media Meeting & Lounge Meeting
Dimensions: 6.65 x 4.86 m
Area: 32.32 m²

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INSPIRATIONS

NOOXS, IDEA WALL
Media Meeting & Lounge Meeting
Dimensions: 11.14 x 5.17 m
Area: 57.59 m²

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INSPIRATIONS

NOOXS, IDEA WALL
Media Meeting & Lounge Meeting
Dimensions: 5.82 x 5.20 m
Area: 30.26 m²

W4 Wall-to-Wall, IDEA WALL
Media Meeting & Lounge Meeting
Dimensions: 6.39 x 4.22 m
Area: 26.96 m²