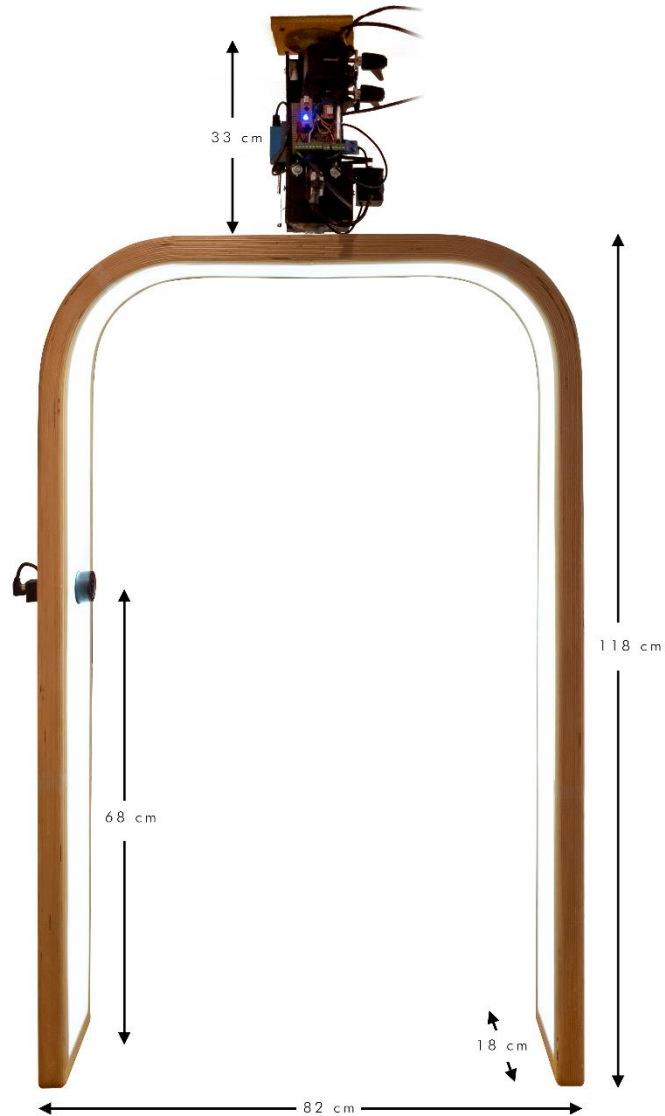


DÉVISAGE interactive installation

Louis-Philippe Rondeau – 2020

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Description

DÉVISAGE is an interactive installation consisting of a wooden arch attached by a pivot on the top, with a camera on one side pointing inwards. As a person steps under the arch, the lights fade on and she is scanned during 20 seconds, her unfolded perspective appearing on a screen in real-time. After a short pause, the scan starts over in the opposite direction. The last 27 scans appear on another screen, an archive of previous faces.

Physical characteristics

The installation comes in three parts. The wooden arch comes apart in two sections. The motorized mast is attached to a vertical pole coming down from the ceiling using super clamps (AKA Mafer clamps). Alternatively, it is also possible to attach it to nearby walls using an extensible boom arm. Three cables extend out of the installation: USB 3.0 for the camera (with a 10m extension), 12V power for the LEDs and USB 2.0 for the microcontroller (with a 10m extender).

Required equipment

Provided by the artist:

- An illuminated U-shaped wooden arch
- A high-quality USB camera on one side of the arch
- A center axle containing the motor and electronics
- Various cables and adapters for the camera and arch
- A Derivative TouchDesigner license
- (For short venues) a Windows computer

Provided by the venue:

- An HD projector or 75-inch TV (for the scanned image)
- A 45-inch 4K TV (or bigger) oriented vertically (to display previous scans)
- Two HDMI cables (or equivalent) running from the computer to projector and TV
- Optional: a projection screen in the case where a wall projection is not possible (see space requirements below)
- (For longer venues) a Windows computer – minimum requirements:
 - Intel i7-7700 or better
 - 16 GB RAM
 - nVidia 1060 GPU or better

All equipment can be provided by the artist, but it would be advisable to source the projector and TV locally for both economic and sustainability reasons.

Shipping requirements

The arch, motor assembly, cables and peripherals (excluding the computer, projector and TV) fit within a 135 cm x 60 cm x 25 cm case. Total weight of packed components is under 15 kg.

Space requirements

In terms of space requirements, refer to the plan above along with these guidelines:

- A volume that is minimally 2.5 m long x 2.5 m wide x 2.5 m high is required
- **A vertical pipe that comes over the center of the installation** that is 230 cm from the ground (90 inches). Hung weight is **12 kg**. Alternatively, a horizontal pipe will work – other hanging options can be considered. Wall mounted installation can be performed with a wall mounting boom and guy wires.
- The space must be dim enough to use a projector – alternatively, use a TV
- Plan for a white wall for the projection that is at least 2.5 m wide – alternatively, a projection screen can be used
- A ceiling-mounted projector is ideal; alternatively, it can be placed on a plinth
- Plan the projection path with the installation and spectators in mind
- Provide a space to conceal the computer

Electrical requirements

Electricity requirements are minimal and flexible – 120-240v, 50-60Hz, 1000 Watts maximum.

Mediation requirements

The installation is designed to function on its own and requires minimal supervision or maintenance. It is activated by a motion sensor (it will not scan when no one is nearby). If the installation is bumped or disturbed, it will reorient itself in the next two scans. The only requirement is to turn the projector on and off in the mornings and evenings. Any software issue can be handled remotely by the artist via a remote desktop connection. An easy-to-use interface can be used to monitor the installation. A basic maintenance guide will be provided.

Other requirements

- An internet connection is required for set-up (wired or wireless)
- A vinyl cut-out of footsteps can be fixed to the floor to help with positioning
- A footstool or other can be used in venues where small children are expected to be present