



BeatBlocks Live

Fact sheet

Playable Technology Limited · Version 1.1 · August 2026

200,000+

visitors have played

8 venues

three continents

Under 1 hr

to install

No staff

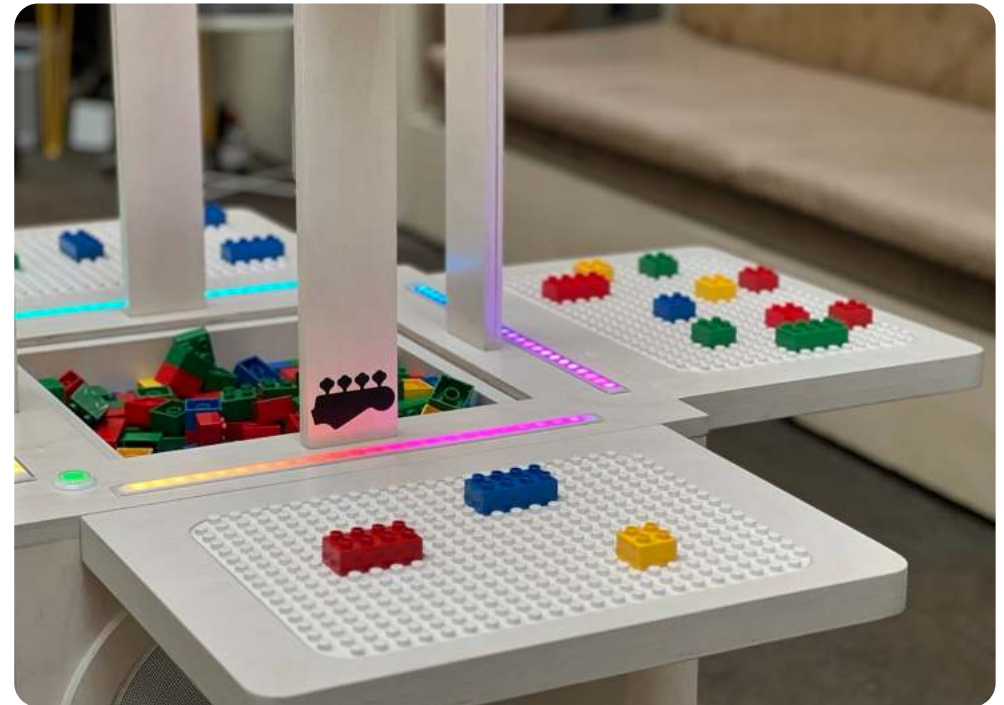
runs unattended

■ What it is

BeatBlocks Live is an interactive music installation for public spaces. Visitors place building bricks onto a play surface and the arrangement becomes music in real time. Computer vision reads the position, colour and size of each brick, and the system composes and plays the result instantly. No screens and no instructions: the bricks are the interface. Four outward-facing play stations share one beat, so several people build the same piece of music together, and it runs unattended all day with no operator.

Installed at the Science Museum, London, the Science and Industry Museum, Manchester, the National Museum of Scotland, V&A Dundee, and LEGOLAND® Discovery Centres in Berlin, Boston, Shanghai and Birmingham. Played by more than 200,000 visitors.

Detection accuracy depends on even lighting across the play surfaces, so lighting is worth designing in rather than correcting afterwards. A full lighting guide is supplied.



Bricks on the play surfaces. Each colour is an instrument, position along the surface is time.

■ At a glance

FOOTPRINT

1300 × 1300 mm
deployed

SPACE

2.7 × 2.7 m
minimum

POWER

One standard
socket

NETWORK

Plays without a
network

AGES

From 18 months
with support

LEAD TIME

4–6 weeks, single
console

■ Specification

Console body	660 × 660 mm, birch ply cabinet
Overall size, stations deployed	1300 × 1300 mm
Space required, minimum	2.7 × 2.7 m. The console plus 0.7 m per side for standing players
Space recommended	4.3 × 4.3 m. Allows 1.5 m per side, so a wheelchair user can use any station
Circulation	Additional to both figures. Passing traffic behind a standing player needs a further 900 to 1200 mm
Height to play surface	713 mm
Clear height beneath play surface	678 mm
Overall height including camera masts	1206 mm
Play stations	Four, removable, 500 × 350 mm each
Brick compatibility	Standard construction bricks, including LEGO® and DUPLO®
Mobility	Four castors, two lockable
Weight, assembled	92.6 kg
Weight, heaviest single component	34.5 kg, the console body. 31 kg with the back panel removed
Floor loading	Approx. 23 kg per castor, distributed across four
Standard finish	White-tinted birch ply. Composite or coloured laminate also available

Floor	Level. Carpet or hard flooring. Load distributed across four castors
Lighting	Diffuse neutral white, 4000 to 5000 K, even across the play surfaces. Avoid undiffused spotlights above the stations, hard shadows and direct sunlight
Power supply	One standard socket, no dedicated circuit. 110 V or 240 V configurable, region-appropriate plug fitted
Internal distribution	16 A switching power distribution unit
Power consumption	45 W idle, up to 90 W in use at full volume
Energy use	Under 1 kWh per operating day
Audio	Integrated loudspeakers, volume set at commissioning. Line-out available as an alternative, for house PA. Optional multi-headphone add-on
Compute	Apple Mac Mini, four overhead cameras, on-device detection
Age suitability	From 3 years. From 18 months with adult support in the large-brick configuration
Staffing	None required
Installation	Under one hour. Assembly manual and video supplied for self-installation
Transit	Six separately handled components. Two flight cases per console when shipped; local delivery by vehicle, without cases
Lead time	4 to 6 weeks single console, 6 to 8 weeks multiple
Warranty	Twelve months, continuing while the annual support agreement is maintained

■ Network and IT

The exhibit plays without a network. A connection is required for remote support and analytics.

Default	Venue wi-fi, 2.4 or 5 GHz. Credentials pre-supplied or set up at commissioning
Optional	Built-in router with 4G mobile SIM, supplied and managed by Playable, where IT policy or wi-fi coverage makes the default impractical. Needs no venue network access or credentials
Remote access	Encrypted connection using managed device tooling. Firewall, domain and port detail on request

■ Data and privacy

Analytics	Anonymous interaction data such as brick placements, session length and sound-set usage. No images, no personal data
Cameras	Face downward onto the play surfaces. They see bricks and hands. No faces captured
Camera frames	Transmitted on demand only, for diagnostics and to improve detection accuracy. Not streamed continuously and not retained
Training images	A subset retained for detection-model training, held within the EU and reviewed only by Playable Technology staff

Not collected	Visitor sign-in, accounts, audio recording, facial recognition, names, contact details, ticketing data
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A written data statement is available for your data protection officer on request.

■ Accessibility

Interaction	No screen, no instructions. The bricks are the interface, read by camera: colour, shape, position, touch, sound and light
Wheelchair use	Play surface reachable and approachable from a seated position
Multi-user	Four stations facing outward, played simultaneously
Hearing and sensory	Volume set per venue. Optional headphones, with a solo mode so a listener hears only their own station rather than the full mix
Fine motor	DUPLO® bricks are larger and easier to grip and place
Younger children	Under about four may need lifting or raising to reach the surface. A step or low stools works well, and lets smaller children sit at it
Differentiation	Supports intuitive play and structured challenge for different learners

“The physical structure has been accessible to a broad range of ages and inclusive of visitors using wheelchairs and mobility aids.”
Tracey Smith, Learning Programme Producer – Families, V&A Dundee

■ Safety and materials

Electrical	Single standard plug. No user-accessible mains connections, console door locked in normal use. PAT testing on arrival is the venue's arrangement
Stability	Four castors, two lockable. Brakes applied in normal use
Small parts	Choking hazard guidance and age labelling supplied for the brick format fitted
Insurance	Public liability certificate on request
Installation	Risk assessment and method statement supplied
Carcass	WISA® Birch plywood, 18 mm minimum, mean density 680 kg/m ³
Reaction to fire	D-s2,d0 to EN 13501-1, from the manufacturer's Declaration of Performance. Covers the bare board; applied finishes sit outside that classification

Fire-retardant option	FR-treated plywood available where a venue's fire strategy requires Euroclass B
Indoor air quality	M1 emission classification. French VOC regulation A+
Formaldehyde	E1, compliant with Commission Regulation (EU) 2023/1464
Timber sourcing	FSC® and PEFC chain of custody
Environmental data	EPD to EN 15804+A2 available. 256 kg CO @ eq per m ³ , cradle to grave

■ Customisation and bespoke work

The standard console suits most spaces as supplied. Where it needs to fit a particular exhibition, brand or audience, the following are available:

Finish and branding	Colour and material to suit the space. Skins, wraps, decals, and laser-etched branding and instructions
Sound	Bespoke sound sets, commissioned or built from your own archive material
Activity and interpretation	Interaction length, challenge modes, guided sequences and gamification designed around your programme. Console instructions and label copy in your house style
Bespoke builds	Non-standard console geometry, multi-console configurations, and integration of the technology into casework designed by your own team

Custom work is scoped and quoted per project.

■ Delivery and what we need from you

Installation takes under an hour, by our team or by venue staff following the illustrated assembly manual and video supplied with every unit, alongside a quick start guide, staff facilitation prompts, lighting guide, network setup instructions, cleaning guidance and a risk assessment and method statement.

Confirmed at booking:

- Parking or loading bay near the installation point
- Step-free route, or details of steps, lifts and door widths
- Two staff for around thirty minutes at delivery and collection
- A standard socket at the installation point
- Wi-fi network name and credentials ahead of delivery
- Someone available at commissioning for the handover briefing

Contact hello@playable.tech for indicative costs and availability, normally within two working days.

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