

Built for screens that face the sun.

Dynamo High Bright: 10,000-nit outdoor LED on a 960 mm cabinet grid, in 6.67, 8 and 10 mm pitch. 75 mm aluminium cabinets at 23 kg, front-serviced, sealed to IP67, 7,680 Hz refresh. Built flat, curved, cornered or on posts. Supplied with the Dynamo CMS and a 3-year return-to-base warranty.

DYNAMO LED DISPLAYS · LONDON · DUBAI · OXFORDSHIRE

DHB Series with DFS curve cabinets in a wrap-around installation.
Photograph of an installed screen built from this cabinet series.

A 960 mm grid for the outside of the building.

The DHB Series, Dynamo High Bright, is an outdoor LED display made up of 960 × 960 mm aluminium cabinets, each 75 mm deep and 23 kg. Cabinets bolt together into a single flat, curved or cornered screen, and the finished display is sized in whole cabinets, so a screen is always a multiple of 960 mm in each direction.

Dynamo sells the series in three pixel pitches, 6.67 mm, 8 mm and 10 mm, all rated at 10,000 nits with a 7,680 Hz refresh rate, and supplies the control system, the content management system and, where wanted, the installation. P6.67 is for people walking or queuing near the screen, P10

for a screen read from a vehicle or across a car park, and P8 sits between the two.

It is a permanent-installation product, not a hire or touring panel. The cabinet is designed to be fixed to a wall, a steel frame or a foot-mounted post and left in place, with the modules reachable from the front for service without taking the screen down.

The spreads that follow cover the cabinet, the formats and the ways it is installed, then the full specification, the typical sizes and what a Dynamo supply includes.

10,000 nits from every pitch and a 7,680 Hz refresh rate, so the screen reads in full sun and films cleanly on a phone.

10,000 nits

brightness at every pitch, per the product datasheets. Enough to hold legibility against direct sun on a south- or west-facing elevation; dimmed through the controller at night.

WHERE IT IS USED

ROADSIDE + FORECOURT SIGNS	Drive-past messaging where the screen must hold up against low winter sun and headlights. P10 suits long viewing distances; P6.67 where traffic slows or stops.
BUILDING FACADES	The 75 mm cabinet keeps the screen close to the wall line, and front service means a facade screen can be maintained from a cherry picker without rear access.
CAR PARKS + RETAIL PARKS	Entrance and wayfinding screens, promotional screens on the approach road and tenant advertising on the park perimeter.
STADIUM EXTERIORS	Concourse and approach screens for fixture information, sponsor content and crowd messaging on match days.
SHOPPING CENTRE + LEISURE ENTRANCES	Large-format screens above entrances, on gable ends and around corners, sized in whole cabinets to fit the elevation.



DHB Series with DFS curve cabinets on a curved building facade, photographed in bright daylight. Photograph of an installed screen built from this cabinet series.



DHB Series with DFS cabinets wrapping a building corner above a retail frontage. Photograph of an installed screen built from this cabinet series.



The DFS curve cabinet, 640 × 960 mm on the 320 mm curve module, with content on the LED face: the piece that lets a DHB Series screen follow a curved elevation or turn a corner. Product render.

Front-serviced, 75 mm deep, 23 kg.

Each 960 × 960 mm cabinet is 75 mm deep and weighs 23 kg, which keeps a facade screen tight to the wall and keeps the support steel light. The die-cast aluminium module chassis also acts as the heat path for the LEDs.

The datasheet installation method is front service: a module is released from the face of the screen with the supplied tool and swapped in minutes, so a screen fixed flush to a wall is still fully serviceable. The power and data units sit in the open rear of the cabinet, reachable where the site has a walkway behind.

75 MM ALUMINIUM CABINET	960 × 960 × 75 mm, 23 kg. Six 480 × 320 mm die-cast aluminium modules per cabinet, two across and three down.
FRONT SERVICE	Modules released from the front with the supplied tool. No rear access needed to swap a module, so the screen can sit flush to a facade.
SIX CABINET FORMATS	960 × 960 as standard, plus 960 × 1,280, 1,440 × 960 and 1,440 × 1,280 mm, and the DFS curve cabinet and DFS 45-degree corner cabinet for curves and corners.
SEALED FOR THE WEATHER	IP67 at the front and IP68 at the rear, rated to run from −20 to +60 °C, with V0 fire-rated cabinet materials.
960 × 960 MM GRID	Screens are planned in whole cabinets. The grid makes sizing simple, the steelwork repeatable and the resolution predictable: 144 × 144 pixels per cabinet at 6.67 mm, 120 × 120 at 8 mm, 96 × 96 at 10 mm.

960 × 960 mm

the cabinet grid. Every DHB Series screen is a whole number of cabinets in each direction, so the steelwork and the resolution follow from the grid.



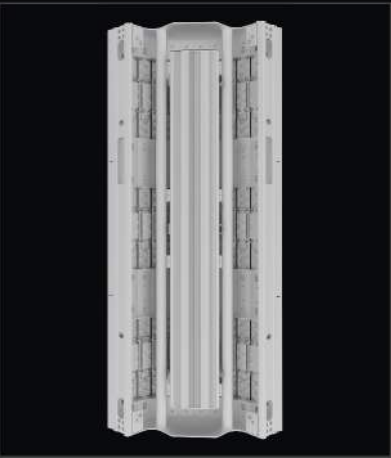
Service side and LED face of the 960 × 960 × 75 mm aluminium cabinet: six modules, the power and data units down the centre, front-release module catches. Product render.



960 × 960 mm cabinet, rear: six module bays, the power and data spine down the centre, locking handles at the corners. Product render.



480 × 320 mm die-cast aluminium module, rear with carry handle and fixings. 72 × 48 pixels at 6.67 mm, 60 × 40 at 8 mm, 48 × 32 at 10 mm.



Half-width cabinet from the same family, rear. Product render.

Flat, curved, cornered or on posts.

Fixed. Cabinets bolted to a steel sub-frame on a wall or elevation, serviced from the front where the screen sits flush.

DFS: the curved DHB cabinets. DFS is the curved variant of the DHB Series: the 640 × 960 mm curve cabinet on the 320 mm curve module and the 45-degree corner cabinet, at 6.67, 8 and 10 mm. The DFS curve cabinet follows a curved facade in whole-cabinet steps; the DFS 45-degree corner cabinet turns a building corner without a gap in the picture, so one screen wraps two elevations. Standard cabinets can also be set at an angle to one another at each

joint, with the angles agreed at the drawing stage and set in the frame.

Foot-mounted. Free-standing screen on posts for roadside, forecourt and car park positions. Foundations and posts are designed to the site and wind load.

Installation and commissioning are available nationwide from Dynamo's own engineers; steelwork and foundations are quoted separately to the site. A planning support statement can also be prepared where the screen needs consent.

FIXED



CURVED · DFS



CORNERED · DFS



Left to right: cabinet array on a fixed sub-frame (render of a typical installation); the DFS curve cabinet (product render); DHB Series with DFS cabinets turning a building corner in one continuous picture (photograph of an installed screen built from this cabinet series).

A screen fixed flush to a wall is still fully serviceable: the module comes out of the front with the supplied tool.

4 steps

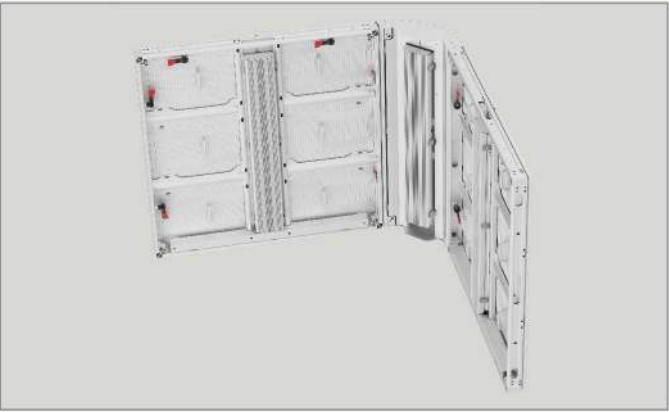
to swap a module from the front: release, hinge out, disconnect, replace. No rear access needed.

01 · RELEASE
Release the module from the front with the service tool.

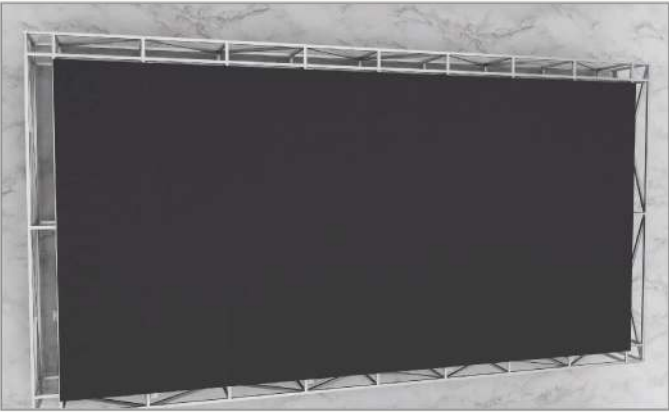
02 · HINGE OUT
Hinge the module out of the cabinet face.

03 · DISCONNECT
Disconnect the module from power and data.

04 · REPLACE
Fit the replacement module. No rear access needed.



The DFS 45-degree corner cabinet turning a corner, rear view: the joint is set in the frame, not flexed on site. Product render.



Steel sub-frame carrying the cabinet grid. Steelwork is designed around the chosen grid and quoted to the site. Render.



Foot-mounted roadside screen on two posts. Foundations and posts are designed to the site and wind load. Render of a typical installation, not a photograph.

Three pitches. One cabinet.

P6.67: closer viewing. 144 × 144 pixels per cabinet. Where people walk or queue near the screen: retail park entrances, concourses, forecourts, facades over a pavement.

P8: the middle pitch. 120 × 120 pixels per cabinet, for facades and entrances read from the street and the approach road.

P10: distance viewing. 96 × 96 pixels per cabinet. For roadside signs, gable ends and anything read from a moving vehicle or across a car park.

ITEM	DHB P6.67	DHB P8	DHB P10
PIXEL PITCH	6.67 mm	8 mm	10 mm
LED TYPE	Kinglight Gold		
MODULE	480 × 320 mm, die-cast aluminium; six per 960 × 960 cabinet, 2 across × 3 down		
MODULE RESOLUTION	72 × 48 px	60 × 40 px	48 × 32 px
CABINET (W × H × D)	960 × 960 × 75 mm, aluminium, 23 kg		
CABINET RESOLUTION	144 × 144 px	120 × 120 px	96 × 96 px
PIXEL DENSITY	22,500 per m²	15,625 per m²	10,000 per m²
OTHER CABINET FORMATS	960 × 1,280, 1,440 × 960 and 1,440 × 1,280 mm; 640 × 960 mm curve cabinet on the 320 mm curve module (DFS); 45-degree corner cabinet (DFS)		
BRIGHTNESS	10,000 nits		
REFRESH RATE	7,680 Hz		
GREY SCALE	14 to 16 bit processing		
COLOUR TEMPERATURE	3,200 to 9,300 K		
VIEWING ANGLE	140° horizontal, 140° vertical		
POWER, MAXIMUM	550 W per m²		
POWER, AVERAGE	NOT STATED ON THE DATASHEET		
SUPPLY	100 to 240 V AC		
INGRESS PROTECTION	IP67 front, IP68 rear		
OPERATING TEMPERATURE	–20 to +60 °C, 10 to 80% RH		
FIRE RATING	V0 cabinet materials		
SERVICE	Front service		
INSTALLATION	Fixed (wall or steel frame), curved and cornered with DFS cabinets, foot-mounted		
CONTROL	Dynamo LED controller; HDMI input or scheduled playback through the Dynamo CMS		
WARRANTY	3-year return-to-base		

Figures are from the product datasheets for each pitch. Pixel density is derived from the cabinet resolution. Specifications may change without notice.

Every DHB Series screen is a whole number of 960 mm cabinets. The builds below are common starting points; any other whole-cabinet size can be built, and the steel frame is designed around the chosen grid.

SCREEN SIZE (W × H)	CABINETS	AREA	P6.67	P8	P10
2,880 × 1,920 mm	3 × 2 = 6	5.53 m²	432 × 288	360 × 240	288 × 192
3,840 × 2,880 mm	4 × 3 = 12	11.06 m²	576 × 432	480 × 360	384 × 288
5,760 × 2,880 mm	6 × 3 = 18	16.59 m²	864 × 432	720 × 360	576 × 288
7,680 × 3,840 mm	8 × 4 = 32	29.49 m²	1,152 × 576	960 × 480	768 × 384
9,600 × 4,800 mm	10 × 5 = 50	46.08 m²	1,440 × 720	1,200 × 600	960 × 480

Resolution in pixels, derived from the cabinet grid: 144 pixels per cabinet at 6.67 mm, 120 at 8 mm, 96 at 10 mm. Content is played at the native resolution of the screen.

CABINET (W × H)	MODULES	P6.67	P8	P10
960 × 960 mm (23 kg)	2 × 3	144 × 144	120 × 120	96 × 96
960 × 1,280 mm	2 × 4	144 × 192	120 × 160	96 × 128
1,440 × 960 mm	3 × 3	216 × 144	180 × 120	144 × 96
1,440 × 1,280 mm	3 × 4	216 × 192	180 × 160	144 × 128
DFS curve cabinet (640 × 960 mm), DFS 45-degree corner cabinet		Pixel count per the drawing for each format		

All formats share the 480 × 320 mm module, so pixels per cabinet follow from the module count. Weights for formats other than 960 × 960 mm are given on the drawings pack. Specified as DFS-P8MM on facade tenders: DHB Series P8 with DFS curve cabinets at the corners.

144 × 144

pixels per cabinet at 6.67 mm. Six modules of 72 × 48.

120 × 120

pixels per cabinet at 8 mm. Six modules of 60 × 40.

96 × 96

pixels per cabinet at 10 mm. Six modules of 48 × 32.

CMS included. Three-year warranty.

Every DHB Series screen bought from Dynamo comes with the Dynamo CMS, our content management system, at no extra charge and with no annual licence. You log in from a web browser at cms.dynamo-led-displays.co.uk to upload, schedule, publish and check playback, with logins for your team, up to 5 GB of storage and up to 200 players on one account.

The CMS runs through a compatible cloud media player, specified per installation and confirmed in the quotation.

Each player stores the published playlist locally, so the screen keeps playing if the site connection drops. A live HDMI feed can also be taken through the Dynamo LED controller.

The LED display is covered by a 3-year return-to-base warranty. A spares allowance of modules, power supplies and receiving cards is included with each supply so that a swap can be made on site without waiting for parts.

WHAT A DYNAMO DHB SERIES SUPPLY INCLUDES

- DHB SERIES CABINETS IN THE AGREED WHOLE-CABINET GRID, 6.67, 8 OR 10 MM PITCH
- DYNAMO LED CONTROLLER SIZED TO THE SCREEN RESOLUTION
- DYNAMO CMS, INCLUDED WITH NO LICENCE FEE
- SPARES ALLOWANCE FOR MODULES, POWER SUPPLIES AND RECEIVING CARDS
- CABINET AND LAYOUT DRAWINGS FOR THE STEELWORK DESIGNER
- 3-YEAR RETURN-TO-BASE WARRANTY ON THE LED DISPLAY

OPTIONAL

- SURVEY, STRUCTURAL STEEL SUB-FRAME AND FOUNDATIONS
- INSTALLATION AND COMMISSIONING BY DYNAMO ENGINEERS
- PLANNING SUPPORT STATEMENT FOR THE APPLICATION
- CONTENT DESIGN AND SCHEDULING SET-UP

3 years

return-to-base warranty on the LED display, with a spares allowance of modules, power supplies and receiving cards included with each supply.

Talk to us about a DHB Series screen.

Send the location, the wall or post position and the size you have in mind, and we will come back with a whole-cabinet layout, the resolution at each pitch and a quotation.

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