ActiMedia Collection Bright

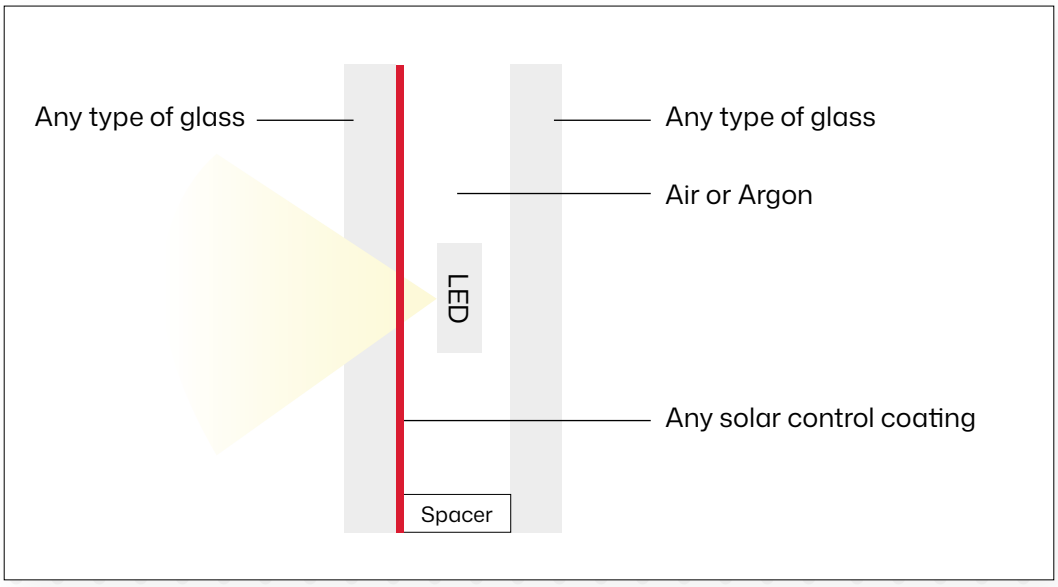
ACTIFACADE

Visibility at any time of day without annoyance

Bright LEDs embedded in the glass modules allow the façade to function as a gigantic screen at any time of day, delivering strong visibility from far away. This brightness is controlled to avoid disturbance, thanks to Anti-Reflection technology for people inside the building and orientation technology that limits annoyance for the surroundings.

Characteristics

- Double Glass Unit
- LEDs embedded in the glass
- 3 High Power monocolor LEDs per pixel
- Low average power consumption
- Pixel per pixel temperature control
- Distance of 100 mm and up between pixels
- Visible all day – Viewing distance of 50 m and beyond depending on distance between LEDs
- Internal reflection of the light can be fully avoided
- The viewing angles can be adapted on demand to avoid light pollution
- 1 or 2 cables per unit only
- High level of redundancy – Failure safeguarding
- No maintenance required on the panels, only on the control system



	Bright	100mm	140mm	200mm
Composition	Front glass	From 6 to 12 mm		
	Back glass	From 6 to 12 mm		
	Glass Coating	Any coating on front and back glass		
	Glass Treatment	Any heat treatment		
	See Through rate	96,5%	98%	98,5%
	Maximum size	4500 X 2000		
	Protection Class	Outdoor (Similar to IP66)		
	Internal Reflection	Down to 0%		
	Additional Weight per m^2	< $2kg/m^2$		
LED	Color	RGB Full Color (RGBW optional*0)		
	LED Maker	Nichia (JPN) or Brightlux (USA)		
	LED pitch	100mm X 100mm	141mm X 141mm	200mm X 200mm
	Pixels per m^2	100 $pixels/m^2$	50 $pixels/m^2$	25 $pixels/m^2$
	Brightness per led[2]	up to 20cd		
	Brightness[2]	2000 nits	1000 nits	500 nits
	Viewing Angle	Custom. Up to H >120° , V >120°		
	Refresh Rate	up to 120hz		
	Color Depth	72 bit (24 bit per color)		
	Pixel size	W: 1.7cm X H: 1.1cm, < $1.5cm^2$		
	PCB width	2mm		
	PCB color	Custom (standard Black Matt)		
	Life Time	>100.000 h		
Electricity	Main Supply Voltage	48V		
	Input Current per m^2	$2.5A/m^2$	$1.25A/m^2$	$0.62A/m^2$
	Max Power Consumption (Panel)	$125W/m^2$	$62.5W/m^2$	$31W/m^2$
	Average Power Consumption (Panel)	$50W/m^2$	$25W/m^2$	$12.5W/m^2$
	PSU Input	110V to 220V		
Heat	Temperature monitoring	Up to 1 Sensors Per pixel		
	Storage Temperature	-40 to 105°C (IGU Spacer)		
	Operating Temperature	-40 to up to 105°C (IGU Spacer)		
Installation	Attachment method	Unitized System, Stick system, Structural systems		
	Quantity of cables	Maximum 2		
	Extension cables	Up to 100m		
	Additional Frames	No additional frames		
Warranty	Product warranty	5 years		
	Performance warranty[3]	10 years - 75% brightness. 20 years - 50% brightness		

1 RGBW pixel size would be larger and brightness would be increased
2 Due to the very high brightness per pixel, dayview is assured even with these nits values
3 At typical use which is 12 hours per day for this product range. These values can be improved but case by case evaluation is required