Bifrost



The Northern Lights were not an unusual sight for people living in the far North and were a popular theme in folklore and superstition. In old Norse mythology, the northern lights were said to be Bifrost, the bridge between Åsgard and Midgard.Bifrost is Barco Residential's smallest bezel-less pixel pitch product from the new TruePix product range. But it's not all about pixel pitch, Direct view LED walls is about the source and how the source is delivered from the content player through our new processor before it hit's the panel. This is where Barco Residential is standing out from the crowd. We have developed a completly new processor for our TruePix panels which together with the Bifrost reproduces a revolutionary viewing experience with an highly dynamic, yet very realistic image.

What is TruePix TruePix



Product specifications	BIFROST	
General specifications		
Posolution	3940 v 2160	

Resolution 3840 x 2180 Pixet pirch 0.9 Pixet per module 640 x 500 (HxV) Number of Blas 36 Brightness +600 Nits Brightness uniformity >96% Image processing 25 bit Color depth 16 bit Bits trillion coloral Contrast 9 000.1 HDR HLC / HDR10 supported Dimming 0 100% Shaders No Refresh rate 3.840 nz Fame rate 24 / 25 / 29 7/ 30 / 47 95 / 48 / 50 / 59 94 / 60 / 100 / 119 88 / Hor, viewing angle 100* / 7.5* Vert. viewing angle 100* / 7.5* Vert. viewing angle 100* / 7.5* Communication 10c 3D 3D Supported Dimension (WxLxH) 365 94 x 205 86 cm (144.06 x 81 inchee) Weight 205 2kg (single PSU) 8.6 kg (single PSU) Weight 205 2kg (single PSU) 8.6 kg (single PSU) Weight 205 2kg (single PSU) 3.00 6 kg (sual PSU) Operating humidity 10x 80x Operating temperature	General specifications		
Number of tiles 36 36 36 36 36 36 36 3	Resolution	3840 x 2160	
Number of tiles 36 Brightness >600 Nits Brightness uniformity >998 (Image processing 23 bit Color depth 15 bit (291 trillion colors) Contrast 9,000 1 HDR HLG / HDR10 supported Dimming 0-100% Shaders No Refersh rate 3,840 hz Frame rate 24 / 25 / 29 97 / 30 / 47 95 / 48 / 50 / 59 94 / 60 / 100 / 119 /88 / Hor, viewing angle 160° 4 / 5° Vert. viewing angle 160° 4 / 5° Vert. viewing angle 160° 4 / 5° Control Infinpate© Gen2 Control Infinpate© Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 36.59 4 x 203.86 cm (144.06 x 81 inches) Weight 295.2kg (single PSU) 8.6 kg/bite (dust. PSU) Power consumption 735 W/m² (max) =	Pixel pitch	0.9	
Brightness Se00 Nits	Pixel per module	640 x 360 (HxV)	
Brightness uniformity	Number of tiles	36	
Image processing	Brightness	>600 Nits	
Color depth	Brightness uniformity	>98%	
Contrast 9,0001 HDR HLG / HDR10 supported Dimming 0-100% Shaders No Refresh rate 3,840 hz Frame rate 24 / 25 / 29.97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 119.88 / 120 / 144.412 Hor. viewing angle 160° + /-5° Vert. viewing angle 160° + /-5° Control Infinpix® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144,06 x 81 inches) Weight / Tile 8 2kg/ktle (single PSU) 8.6 kg/ktle (dual PSU) Weight / Tile 8 2kg/ktle (single PSU) 8.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 75 W/m² (max) = total 5.54kW 24 w/m² (typla = total 1.91kW 2	Image processing	23 bit	
HDR	Color depth	16 bit (281 trillion colors)	
Dimming 0-100% Shaders No Refresh rate 3,840 hz Frame rate 24 / 25 / 29 97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 119.88 / 120 / 144 Hz Hor. viewing angle 160° +/-5° Vert. viewing angle 160° +/-5° Control Infinpix® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144.06 x 81 inches) Weight / Tile 8.2kg/kile (single PSU) 8.6 kg/kile (dual PSU) Weight / Tile 8.2kg/kile (single PSU) 8.6 kg/kile (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (tp) = total 1.91kW (test than 10 W/m² (standoly) = less than 75W total BTU per hour 2.506 BTU/h/m² (max) = 1.136 BY/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front if full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement	Contrast	9,000:1	
Shaders No Refresh rate 3,840 hz Frame rate 24 / 25 / 29.97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 119.88 / 120 / 144 Hz Hor. viewing angle 160" +/-5" Control Inflinptx® Gen2 Communication toc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144,06 x 81 inches) Weight / Tile 8.2 kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2 kg (single PSU), 30.9 6 kg (dual PSU) Operating humidity 10% -80% Operating temperature +10"C to +40"C / 14"F to 104"F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53 kW 254 W/m² (typ) = total 1.91 kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2.506 BTU/h/m² (max) = total 1.91 kW less than 75W total Installation Self-leveling with surface tolerance compensation Serviceability Full front 6 full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifficati	HDR	HLG / HDR10 supported	
Refresh rate 3.840 hz Frame rate 24 / 25 / 29.97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 119.88 / 120 / 144 Hz Hor. viewing angle 160* + /-5° Vert. viewing angle 160* + /-5° Control Infinipix® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144.06 x 81 inches) Weight / Tile 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% - 80% Operating temperature +10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW (less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1136 BTU/h/m² (max	Dimming	0-100%	
Frame rate 24 / 25 / 29 .97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 119.88 / 120 / 144 Hz Hor. viewing angle 160° + /-5° Vert. viewing angle 160° + /-5° Control Infinipx® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144.06 x 81 inches) Weight / Tite 8.2 kg/title (single PSU) 8.6 kg/title (dual PSU) Weight (295.2kg (single PSU) 8.6 kg/title (dual PSU) Operating humidity 295.2kg (single PSU) 3.09 6 kg (dual PSU) Operating temperature 10° C to +40° C / 14° F to 104° F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2.506 BTU/h/m² (max) = total 5.53kW 254 W/m² (standby) = less than 75W total BTU per hour 2.506 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module replacement Guided	Shaders	No	
120 / 144 Hz	Refresh rate	3,840 hz	
Vert. viewing angle 160° +/-5° Control Infinpix® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144.06 x 81 inches) Weight / Tile 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 235 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1,136 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front 6 full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Frame rate		
Control Infinpix® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144,06 x 81 inches) Weight / Tile 8.2kg/kile (single PSU) 8.6 kg/kile (dual PSU) Weight (295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Hor. viewing angle	160° +/-5°	
Communication tbc 3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144,06 x 81 inches) Weight / Tile 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) / 1,136 BTU/h/m² (max) / 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-levelling with surface tolerance compensation Serviceability Full front ∂ full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, U., FCC class A, RoHS, WEEE, REACH, CCC, RCM	Vert. viewing angle	160° +/-5°	
3D 3D Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144.06 x 81 inches) Weight / Tile 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1.136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Control	Infinpix® Gen2	
Dimensions (WXLXH) 365.94 x 205.86 cm (144,06 x 81 inches) Weight / Tile 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 755 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW tess than 10 W/m² (standby) = less than 75W total BTU per hour 2.506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Communication	tbc	
Weight / Tile 8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU) Weight 295.2kg (single PSU), 309.6 kg (dual PSU) Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2.506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	3D	3D Supported	
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Operating humidity 10% -80% Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Weight / Tile	8.2kg/tile (single PSU) 8.6 kg/tile (dual PSU)	
Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front θ full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Weight	295.2kg (single PSU), 309.6 kg (dual PSU)	
IP rating IP30 Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Operating humidity	10% -80%	
Power consumption 735 W/m² (max) = total 5.53kW 254 W/m² (typ) = total 1.91kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Operating temperature	-10°C to +40°C / 14°F to 104°F	
254 W/m² (typ) = total 1.91kW less than 75W total BTU per hour 2,506 BTU/h/m² (max) 1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	IP rating	IP30	
1,136 BTU/h/m² (typ) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Power consumption	$254 \text{ W/m}^2 \text{ (typ)} = \text{total } 1.91 \text{kW}$	
Installation Self-leveling with surface tolerance compensation Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	BTU per hour		
Serviceability Full front & full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Power requirements	110-130V/200-240V, 50-60 Hz	
Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Installation	Self-leveling with surface tolerance compensation	
Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Serviceability	Full front & full back service	
Ergonomics SteadyView driver algorithm to reduce eye fatigu Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Module replacement	Automated parallel motorized extraction	
Certifications E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	Module placement	Guided module placement	
	Ergonomics	SteadyView driver algorithm to reduce eye fatigu	
Warranty 3 years, can be extended up to 8 years	Certifications	E, UL, FCC class A, RoHS, WEEE, REACH, CCC, RCM	

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