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		
Resolution	3840 x 2160	

Resolution 3840 x 2190 Pixel pixel 0.9 Pixel pri module 640 x 360 (4kV) Number of Illes 36 Brightness > 600 Nils Brightness uniformity > 98% Image processing 23 bit Color-depth 16 bit (281 trillion colors) Contrast 9,000 1 HDR HLG / HDR10 supported Dimming 0.100% Shaders No	General specifications	
Pixel per module	Resolution	3840 x 2160
Number of tiles 36 Brightness >600 Nils Brightness uniformity >99% Image processing 23 bit Color depth 16 bit (28t villion colors) Contrast 9.000-1 HDR HLG / HDR10 supported Dimming 0.100% Shaders No Refresh rate 3,640 hz Frame rate 24 / 25 / 29.97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 100 / 129.88 / Vert. viewing angle 160° + /-5° Vert. viewing angle 160° + /-5° Control Inflipsiv® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 36.59.4 x 205.86 cm (144.06 x, 81 inches) Weight 29.52 kg (single PSU) 8.6 kg/kile (dual PSU) Weight 29.52 kg (single PSU) 8.6 kg/kile (dual PSU) Operating temperature -10°C to + 40°C / 14°F to 104°F IP rating (PS0 Power consumption 27.5 W/m² (max) - sotal 5.5 kW/m² (max) - sotal 5	Pixel pitch	0.9
Brightness >600 Nits Brightness uniformity >98% Image processing 23 bit Color depth 16 bit (281 tillion colors) Contrast 9,000.1 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 / LEV Liviewing angle 160° + 7-5° Vert. viewing angle 160° + 7-5° Control Inringsk® Gen2 Communication tbc 3D 3D Supported Dimensions (WxLxH) 365 94 x 205 86 cm (144,06 x 81 inches) Weight (71) tile 8,280/live (single PSU) 8.6 kg/tile (dual PSU) Weight (295 2kg (single PSU) 8.09 k kg/tile (dual PSU) Operating temperature -10°C to +40°C / 14°F to 104°F IP rating IP30 Power consumption 758 Wirn (max) = total 553W EV Wirn (max) = total 19 kW Lists BILLON/m ² (max) = total 19 kW Less than 10 W/m ² (stanotby) = less than 75W total BTU	Pixel per module	640 x 360 (HxV)
Brightness uniformity	Number of tiles	36
Image processing	Brightness	>600 Nits
Color depth	Brightness uniformity	>98%
Contrast 9,000-1	Image processing	23 bit
HDR	Color depth	16 bit (281 trillion colors)
Dimming	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* 4 / 5° Vert. viewing angle 160* 4 / 5° Control Infinpix® Gen2 Communication tbc 3D 30 Supported Dimensions (WxLxH) 365.94 x 205.86 cm (144.06 x 81 inches) Weight / Tite 8.2 kg/kile (single PSU) 8.6 kg/kile (dual PSU) Weight 295.2 kg (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 (ess than 10 W/m² (standby) = less than 75W total BTU per hour 2.56 6 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	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 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 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/hrm² (max) 1.136 BTU/hrm	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 Infinipix® Gen2 Communication tbc 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), 309.6 kg (dual PSU) Operating humidity 10° - 80% Operating temperature -10° C to +40° C / 14° F to 104° F IP rating IP3 Power consumption 735 W/m² (max) = total 5.53 kW 254 W/m² (spa) = total 1.91 kW less than 10 W/m² (standby) = less than 75W total BTU per hour 2,506 BTU/h/m² (max) = total 5.53 kW 254 W/m² (spa) Power requirements 110-130V/200-240V, 50-60 Hz Installation Self-leveling with surface tolerance compensation Serviceability Full front 8 full back service Module replacement Automated parallel motorized extraction Module placement Guided module placement Ergonomics SteadyView driver algorithm to reduce eye fatigu	Shaders	No
Hor. viewing angle	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 (Department) 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-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. U.L. FCC class A. RoHS, WEEE, REACH, CCC, RCM	Frame rate	
Control Infinjx® 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) 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	Hor. viewing angle	160° +/-5°
Communication Ibc	Vert. viewing angle	160° +/-5°
3D 3D Supported	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 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	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
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 (stanbby) = 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	Dimensions (WxLxH)	365.94 x 205.86 cm (144,06 x 81 inches)
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 & 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 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	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 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	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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