# HYDROGEN FASCIA





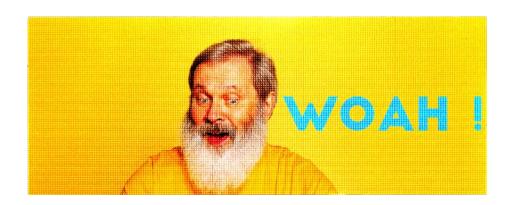
# **HYDROGEN** FASCIA



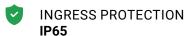


## **OVERVIEW**

The HYDROGEN FASCIA is derived from our HYDROGEN range, dedicated to ribbon LED applications for sports venues. It is a reliable, simple, and highly customizable product, that allows you to display your sponsors' visual content to be seen by your whole audience.









DISPLAY AREA (W x H)
1600 x 800 mm





MATERIAL

Steel with reinforcements

MAINTENANCE Front & back maintenance



### **FEATURES**



#### **ROBUST LED CABINET**

The HYDROGEN FASCIA was designed to withstand extreme climatic conditions. It is waterproof, can function in temperatures from -20°C to 60°C, and its mask protects the LEDs from any

sort of physical damage. This product will stay true to its original condition for a long time and will keep on functioning normally no matter what.



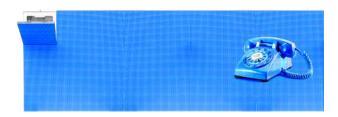


#### FRONT MAINTENANCE

This type of LED ribbon is more often than not integrated directly into the stadium bleachers. That is why your application needs to be maintainable from the front. The HYDROGEN FASCIA's modules can easily be removed from the front with a special tool, giving you total access to the power box, motherboard, and other internal components.

#### **CUSTOMIZABLE SIZE**

We can provide tailored HYDROGEN FASCIA cabinets, considering for instance the size of your bleachers. You can therefore be assured that your LED ribbon will perfectly fit your stadium.



#### **VISUAL PROPERTIES**

With a brightness going up to 6500 NITS, a high contrast ratio, and a 6.67mm pixel pitch, you make sure that your sponsors' visual content is visible, day or night, from anywhere in your stadium.



## **HYDROGEN** FASCIA





## **TECHNICAL SPECIFICATIONS**

Product   Paralmeters			OUTDOOR
Maria	Product Parameters	Unit	6.6
Application   IP   IPS   IPS	Pixel Pitch	mm	6,67
Impress Protection	LED		SMD3535 3in1
Brightness         cd/sqm         s 6500 Nits @svolts           Color Temperature after calib (adjustable)         deg. K         6500           Viewing Apple (50% brightness)         deg.         140(+/-70)H / 140 V           Cabinet Size (Wathk0)         mm         1600 x 800 x 124           Display area (Wth1)         mm         1500 x 800           Module Size (Wathk0)         mm         320 x 160 x 25           Placel Matrix Per Cabinet (WxH)         px         48 x 24           Pacel Matrix Per Module (WxH)         px         48 x 24           Pacel Matrix Per Module (WxH)         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         front         Maintenance Mode           Maintenance Mode         Front         Maintenance Mode           Grey scale (linear)         bit         15           Grey scale (linear)         bit         15           Brightness control         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85230V           Max. Power Consumption         W/sqm         600           Average Power Consumption	Application		Outdoor fascia
Color Temperature after calib (adjustable)         deg.         140(+/70) H / 140 V           Cabinet Size (WxHxD)         mm         1600 x 800 x 124           Display area (WxHx)         mm         1600 x 800 x 800           Module Size (WxHxD)         mm         320 x 160 x 25           Pixel Matrix Per Cabinet (WxH)         px         240 x 120           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Matrix Per Module (WxH)         px         600           Max Specification         15         16           Griteria Kalio         16         16           Grit Specification         16 </td <td>Ingress Protection</td> <td>IP</td> <td>IP65</td>	Ingress Protection	IP	IP65
Viewing Angle (50% brightness)         deg.         140(+/-70) H / 140 V           Cabinet Size (WxHxD)         mm         1600 x 800 x 124           Display area (WxHz)         mm         1500 x 800           Module Size (WxHxD)         mm         320 x 160 x 25           Evel Matrix Per Cabinet (WxH)         px         240 x 120           Pixel Matrix Per Cabinet (WxH)         px         48 x 24           Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Mx. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm	Brightness	cd/sqm	≤ 6500 Nits @5volts
Cabinet Size (Wx+bD)         mm         1600 x 800 x 124           Display area (Wx+b)         mm         1600 x 800           Module Size (Wx+bD)         mm         320 x 160 x 25           Pixel Matrix Per Cabinet (Wx+b)         px         240 x 120           Pixel Matrix Per Module (Wx+b)         px         48 x 24           Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Kg/sqm         38           Cabinet Material         Front           Mask specification         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Centrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization	Color Temperature after calib (adjustable)	deg. K	6500
Display area (WxH)         mm         1600 x 800           Module Size (WxHxD)         mm         320 x 160 x 25           Pixel Matrix Per Cabinet (WxH)         px         240 x 120           Pixel Density         px/sqm         48 x 24           Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Steal cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         Pyes           Calibration         Yes           Calibration         Yes	Viewing Angle (50% brightness)	deg.	140(+/-70) H / 140 V
Module Size (WxHxD)         mm         320 x 160 x 25           Pixel Matrix Per Cabinet (WxH)         px         240 x 120           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         W/sqm         200           Control Mode         Hz         50/60Hz           Upper Types Supported         Hz         50/60Hz           3D ready (optional)         Yes           Cali	Cabinet Size (WxHxD)	mm	1600 x 800 x 124
Pixel Matrix Per Cabinet (WxH)         px         240 x 120           Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         20           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         DV / SDI / HDMI           3D ready (optional)         Yes           Calibration         Yes           Lifetime (50% brightness)         h         5	Display area (WxH)	mm	1600 x 800
Pixel Matrix Per Module (WxH)         px         48 x 24           Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         Hz         50/60Hz           Jorday (optional)         Yes           Calibration         Yes           Lifetime (50% brightness)         h         500000           Operating Humidity Range         10-95% <td>Module Size (WxHxD)</td> <td>mm</td> <td>320 x 160 x 25</td>	Module Size (WxHxD)	mm	320 x 160 x 25
Pixel Density         px/sqm         22500           Weight         kg/sqm         38           Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         DVI / SDI / HDMI           3D ready (optional)         Yes           Calibration         Yes           Lifetime (50% brightness)         h         50000           Operating Humidity Range         In 95%	Pixel Matrix Per Cabinet (WxH)	рх	240 x 120
Weight         kg/sqm         38           Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         DVI / SDI / HDMI           3D ready (optional)         Yes           Calibration         Yes           Lifetime (50% brightness)         h         50000           Operating Humidity Range         10-95%	Pixel Matrix Per Module (WxH)	рх	48 x 24
Cabinet Material         Steel cabinet with reinforcement           Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         DVI / SDI / HDMI           3D ready (optional)         Yes           Calibration         Yes           Lifetime (50% brightness)         h         50000           Operating Humidity Range         10-95%	Pixel Density	px/sqm	22500
Maintenance Mode         Front           Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         Hz         50/60Hz           Input Types Supported         Yes         Calibration           Calibration         Yes           Lifetime (50% brightness)         h         50000           Operating Humidity Range         10-95%	Weight	kg/sqm	38
Mask specification         95% Plastic + 5% Fiber / SS Screws / Shaders           Contrast Ratio         High           Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         Hz         50/60Hz           Input Types Supported         Pyes         Pyes           Calibration         Yes         Calibration           Lifetime (50% brightness)         h         50000           Operating Humidity Range         10-95%	Cabinet Material		Steel cabinet with reinforcement
Contrast Ratio   High   Grey scale (linear)   bit   15   Brightness control   bit   16   Processing depth   bit   16   Color   281 Trillions   Display Refresh Rate   Hz   3840   Operation Power   V   AC85-230V   Max. Power Consumption   W/sqm   600   Average Power Consumption   W/sqm   200   Control Mode   Synchronization   Video Frame Rate   Hz   50/60Hz   Input Types Supported   DVI / SDI / HDMI   3D ready (optional)   Yes   Calibration   Yes   Lifetime (50% brightness)   h   50000   Operating Humidity Range	Maintenance Mode		Front
Grey scale (linear)         bit         15           Brightness control         bit         16           Processing depth         bit         16           Color         281 Trillions           Display Refresh Rate         Hz         3840           Operation Power         V         AC85-230V           Max. Power Consumption         W/sqm         600           Average Power Consumption         W/sqm         200           Control Mode         Synchronization           Video Frame Rate         Hz         50/60Hz           Input Types Supported         DVI / SDI / HDMI           3D ready (optional)         Yes           Calibration         Yes           Lifetime (50% brightness)         h         50000           Operating Humidity Range         10-95%	Mask specification		95% Plastic + 5% Fiber / SS Screws / Shaders
Brightness control bit 16  Processing depth bit 16  Color 281 Trillions  Display Refresh Rate Hz 3840  Operation Power V AC85-230V  Max. Power Consumption W/sqm 600  Average Power Consumption W/sqm 200  Control Mode Synchronization  Video Frame Rate Hz 50/60Hz  Input Types Supported DVI / SDI / HDMI  3D ready (optional) Yes  Calibration Yes  Lifetime (50% brightness) h 50000  Operating Humidity Range 16	Contrast Ratio		High
Processing depth bit 16 Color 281 Trillions Display Refresh Rate Hz 3840 Operation Power V AC85-230V Max. Power Consumption W/sqm 600 Average Power Consumption W/sqm 200 Control Mode Synchronization Video Frame Rate Hz 50/60Hz Input Types Supported DVI / SDI / HDMI 3D ready (optional) Yes Calibration Yes Lifetime (50% brightness) h 50000 Operating Humidity Range	Grey scale (linear)	bit	15
Color 281 Trillions  Display Refresh Rate Hz 3840  Operation Power V AC85-230V  Max. Power Consumption W/sqm 600  Average Power Consumption W/sqm 200  Control Mode Synchronization  Video Frame Rate Hz 50/60Hz  Input Types Supported DVI / SDI / HDMI  3D ready (optional) Yes  Calibration Yes  Lifetime (50% brightness) h 50000  Operating Humidity Range	Brightness control	bit	16
Display Refresh Rate Hz 3840  Operation Power V AC85-230V  Max. Power Consumption W/sqm 600  Average Power Consumption W/sqm 200  Control Mode Synchronization  Video Frame Rate Hz 50/60Hz  Input Types Supported DVI / SDI / HDMI  3D ready (optional) Yes  Calibration Yes  Lifetime (50% brightness) h 50000  Operating Humidity Range	Processing depth	bit	16
Operation Power V AC85-230V  Max. Power Consumption W/sqm 600  Average Power Consumption W/sqm 200  Control Mode Synchronization  Video Frame Rate Hz 50/60Hz  Input Types Supported DVI / SDI / HDMI  3D ready (optional) Yes  Calibration Yes  Lifetime (50% brightness) h 50000  Operating Humidity Range 1600	Color		281 Trillions
Max. Power Consumption W/sqm 600 Average Power Consumption W/sqm 200 Control Mode Synchronization Video Frame Rate Hz 50/60Hz Input Types Supported DVI / SDI / HDMI 3D ready (optional) Yes Calibration Yes Lifetime (50% brightness) h 50000 Operating Humidity Range	Display Refresh Rate	Hz	3840
Average Power Consumption W/sqm 200  Control Mode Synchronization  Video Frame Rate Hz 50/60Hz  Input Types Supported DVI / SDI / HDMI  3D ready (optional) Yes  Calibration Yes  Lifetime (50% brightness) h 50000  Operating Humidity Range 100  Operating Humidity Range	Operation Power	V	AC85-230V
Control Mode  Video Frame Rate  Hz  50/60Hz  Input Types Supported  DVI / SDI / HDMI  3D ready (optional)  Calibration  Yes  Lifetime (50% brightness)  h  Operating Humidity Range  Synchronization  Pyes  DVI / SDI / HDMI  Yes  10-95%	Max. Power Consumption	W/sqm	600
Video Frame Rate Hz 50/60Hz  Input Types Supported DVI / SDI / HDMI  3D ready (optional) Yes  Calibration Yes  Lifetime (50% brightness) h 50000  Operating Humidity Range 10-95%	Average Power Consumption	W/sqm	200
Input Types Supported  3D ready (optional)  Calibration  Yes  Lifetime (50% brightness)  h  Operating Humidity Range  DVI / SDI / HDMI  Yes  10-95%	Control Mode		Synchronization
3D ready (optional)  Calibration  Yes  Lifetime (50% brightness)  h  Operating Humidity Range  Yes  10-95%	Video Frame Rate	Hz	50/60Hz
Calibration Yes Lifetime (50% brightness) h 50000 Operating Humidity Range 10-95%	Input Types Supported		DVI / SDI / HDMI
Lifetime (50% brightness) h 50000 Operating Humidity Range 10-95%	3D ready (optional)		Yes
Operating Humidity Range 10-95%	Calibration		Yes
	Lifetime (50% brightness)	h	50000
Operating Temperature Range -20°C / +60°C	Operating Humidity Range		10-95%
	Operating Temperature Range		-20°C / +60°C
Screen Uniformity Correction Yes	Screen Uniformity Correction		Yes
Certification EMC CLASS B / CE / ETL / CCC	Certification		EMC CLASS B / CE / ETL / CCC
Available options Neutrik outdoor connectors / Aluminum cabinet / Size can be customized	Available options		Neutrik outdoor connectors / Aluminum cabinet / Size can be customized
Compatibility No	Compatibility		No

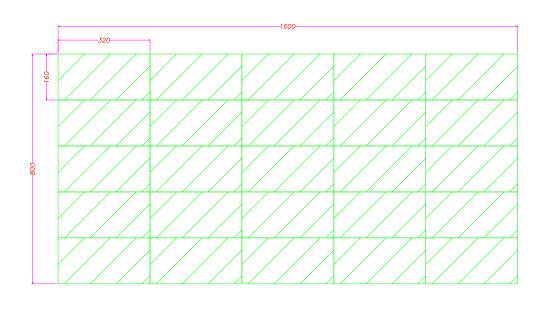




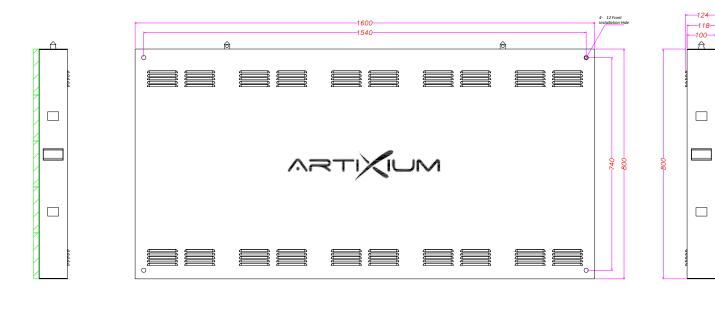
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# **TECHNICAL DRAWINGS**











The Artixium regional branches are the key for the growth and development of our global network all over the world. Artixium's team is a spectrum of different nationalities and cultures, reflecting their global presence and mindset, mak-

ing their communication smooth and hassle-free with clients from all around the world. Customer care, Innovation and flexibility has always been our values and we intend to keep this reputation for many years to come.

#### **ARTIXIUM FRANCHISES**

"From your project's conception to its completion."





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Since its creation in 2012 by two european entrepreneurs, Artixium has been evolving and always looking for innovative ways to contribute to the digital transition of our world. It only took a few years for Artixium to become a key player in the LED display industry.

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