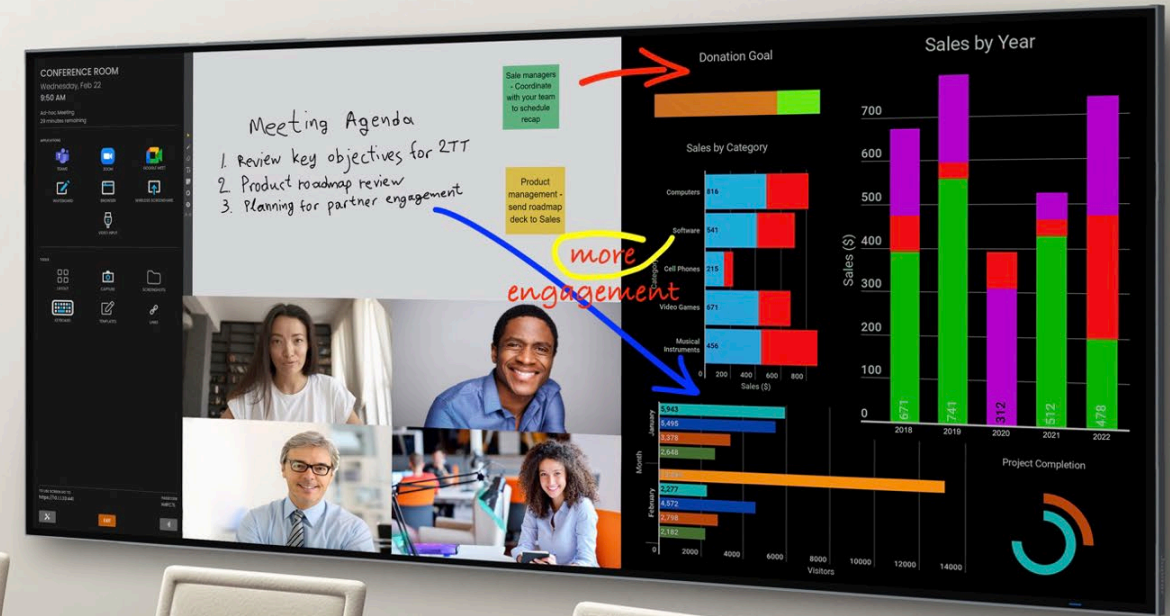# 21:9
Solutions Guide
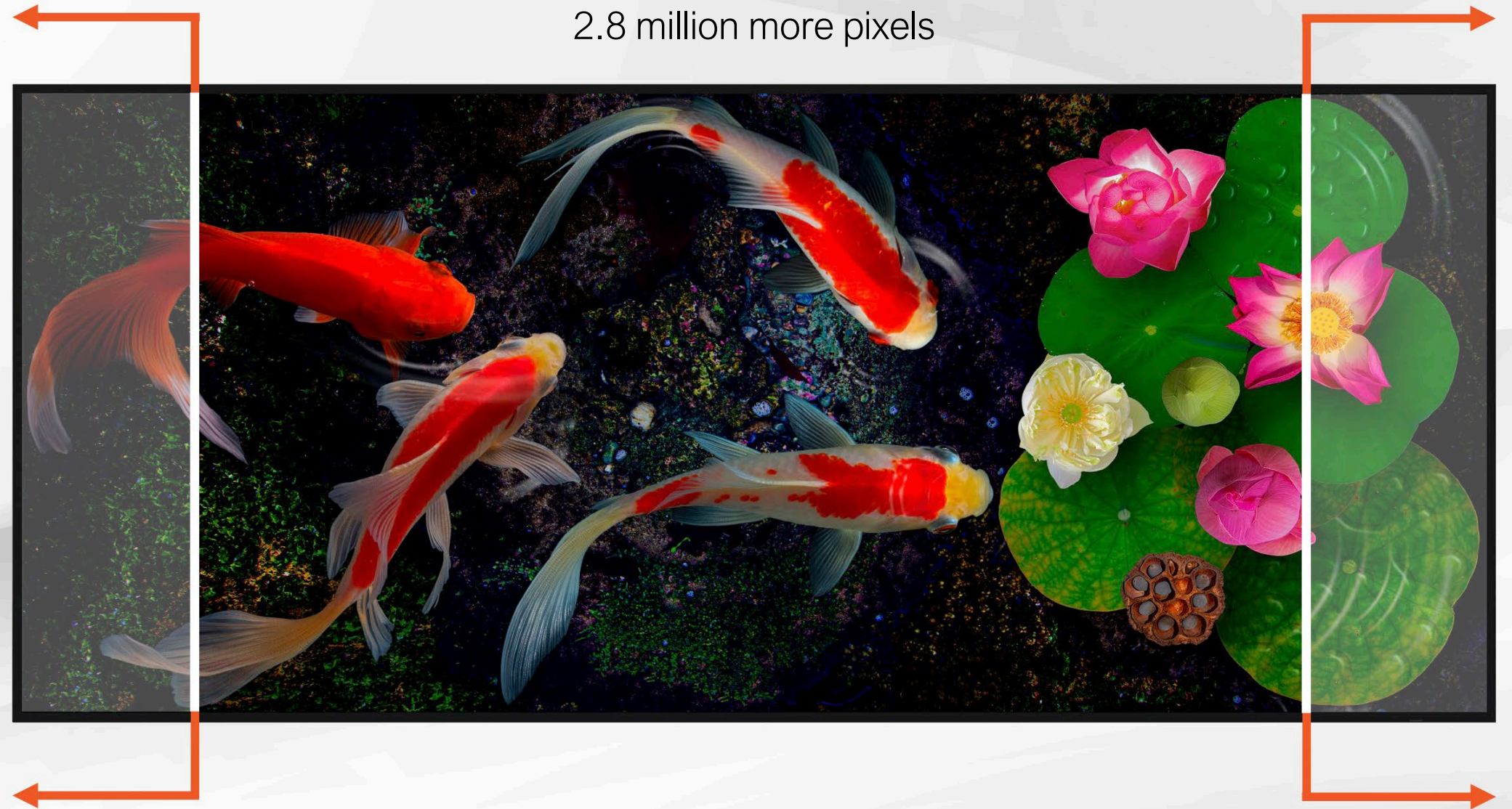
Innovation that Matters

Jupiter's product solutions empower customers.

At the forefront of innovation, our Pana ultrawide 5K large LCD and Zavus Xtreme Pixel MicroLED displays are the only comprehensive 21:9 product line in the world.

33% more real estate
2.8 million more pixels

There is no debate as to the value 21:9 ultrawide 5K LCDs bring to the market: particularly in the enterprise space. Our passion for 21:9 5K has seemingly infected the world over. We will continue to push engineering boundaries in this space, as we're dedicated to only the 21:9 form factor.

—Sidney Rittenberg Jr, CEO of Jupiter

Ultrawide

The 21:9 aspect ratio of 2.37:1 is positioned between the classical CinemaScope of 2.35:1 and the modern anamorphic cinematic content of 2.39:1

Our eyes see far more horizontal than vertical

Field of view

200 - 220°

130 - 135°

Naturally

5K 21:9

4K 16:9

Go beyond 16:9 and bring **cinematic** storytelling experiences to video walls, conferencing and hybrid workspace.

Since 2018, Jupiter engineering has been developing 5K 21:9

21:9 has more display real estate than 16:9

Pana 81

Pana 81

Pana 105

Same height as 16:9

Same height as 16:9

Standard 65"

Standard 75"

Standard 85"

more content, more inclusion with 21:9

End-to-end 21:9 sizes for every space

Pana 34

Pana 81, 81T

Pana 81X, 81XT

Pana 105, 105T, 105X, 105XT

Zavus XP7 - 165"

Zavus XP9 - 205"

Zavus XP12 - 281"

GO BIG

Zavus™ Xtreme Pixel
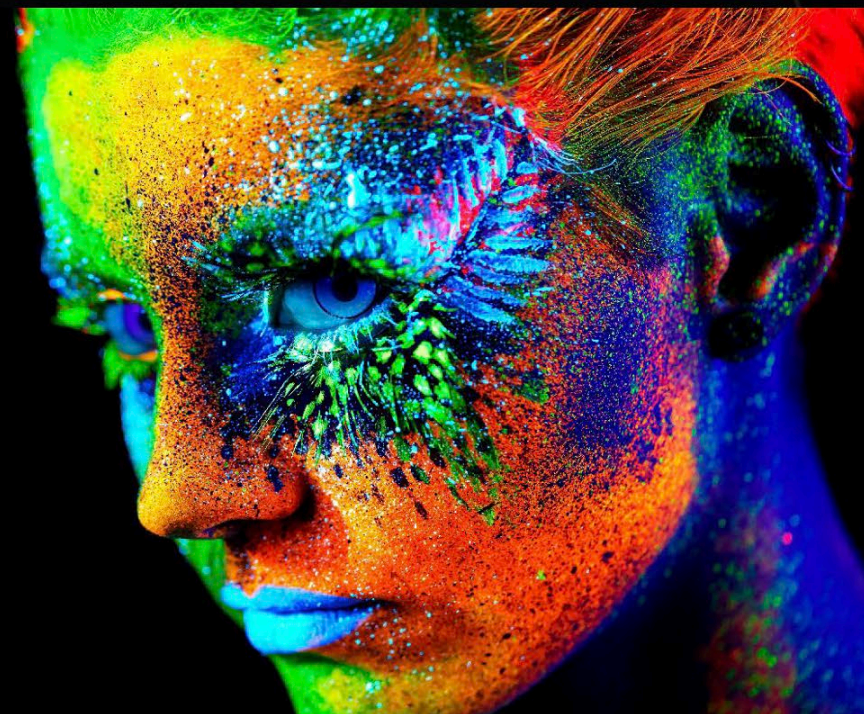
Zavus™ Xtreme Pixel

Flip-Chip COB (Chip-on-Board)
Ultra fine-pitch direct view MicroLED

Jupiter proprietary MicroLED driver-board engineering

- DCI-P3 color gamut
- Up to 16-bit color depth with true black
- 1000 nits sustained luminance
- Camera-friendly 3840 Hz scan rate
- ST 2110 standard

Embedded with
megapixel

Unmatched color and contrast

other brands

Zavus

Our direct view MicroLED brings unprecedented control over the cabinet electronics. White point, color rendering and seam correction down to each individual LED module are available to control from a simple UI interface that is web-hosted and accessible from desktop or mobile end-points, with ultra-high bit-depth performance.

Easily access health monitoring from a web hosted interface that can encompass multiple LED wall locations for an entire building or campus. The Helios platform can be specified with the desired combination of modular inputs per project requirements.
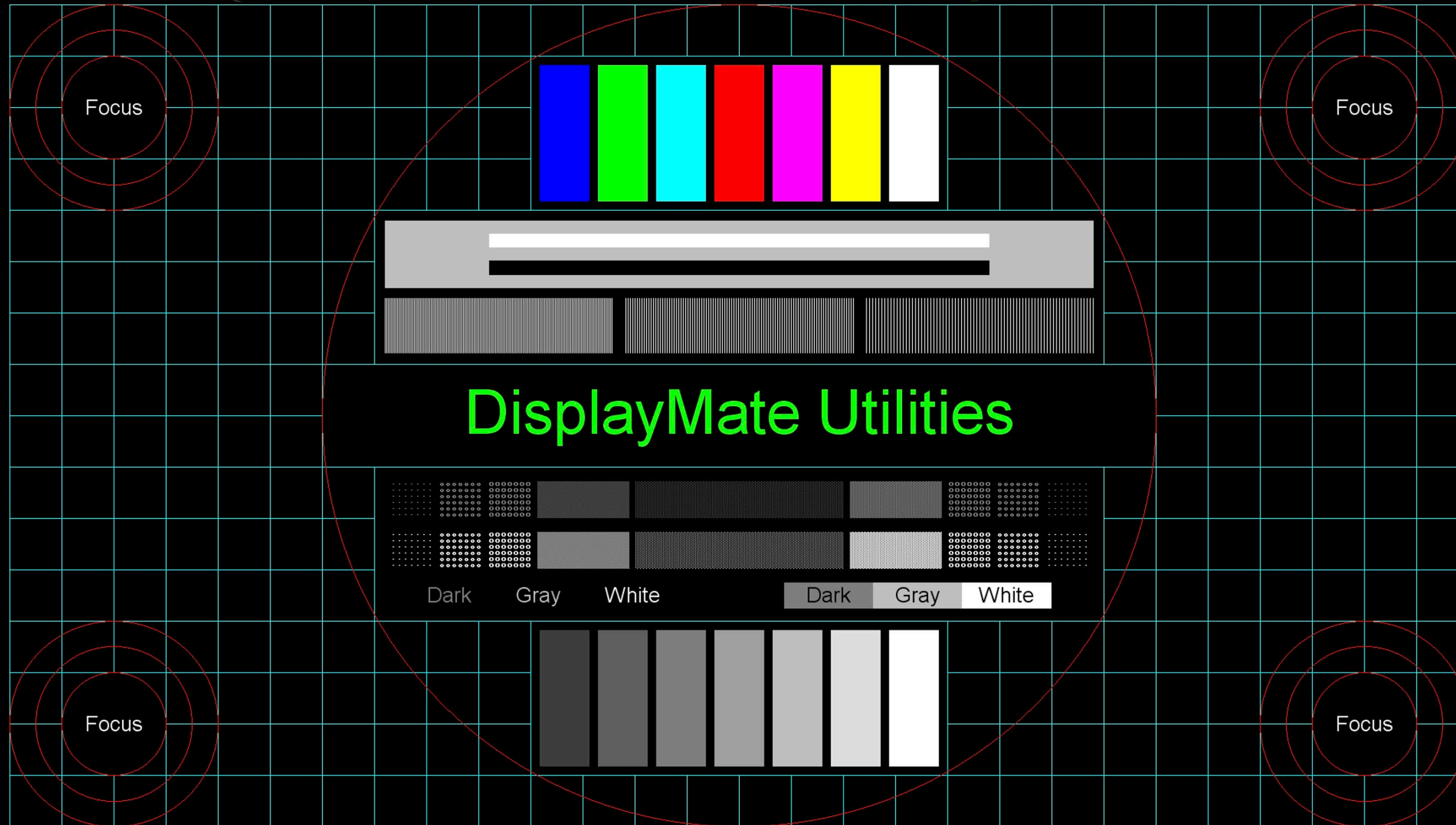
At Jupiter, image quality is paramount.

Anyone can present a beautiful video with vivid colors but professional graphics applications is where true challenges lie. Zavus Xtreme Pixel was developed with the intent to satisfy not just digital signage, home theater, UC applications and broadcast, but critical eye viewing of CAD, data visualization, flight simulation and 3D modeling applications, on full white, true black, and the spectrum in between.

Part of our barometer was to engineer Zavus XP to excel against DisplayMate's tortuous test patterns.

Seeing is believing.

Focus

Focus

DisplayMate Utilities

Dark   Gray   White   Dark   Gray   White

Focus

Focus

We put our Zavus XP through hell, and back with flying colors

21:9 5K video wall dimensions: Width 151 inches, Height 64 inches, Depth 1.1 inches

Microsoft Teams

Pana 34

Zavus XP7

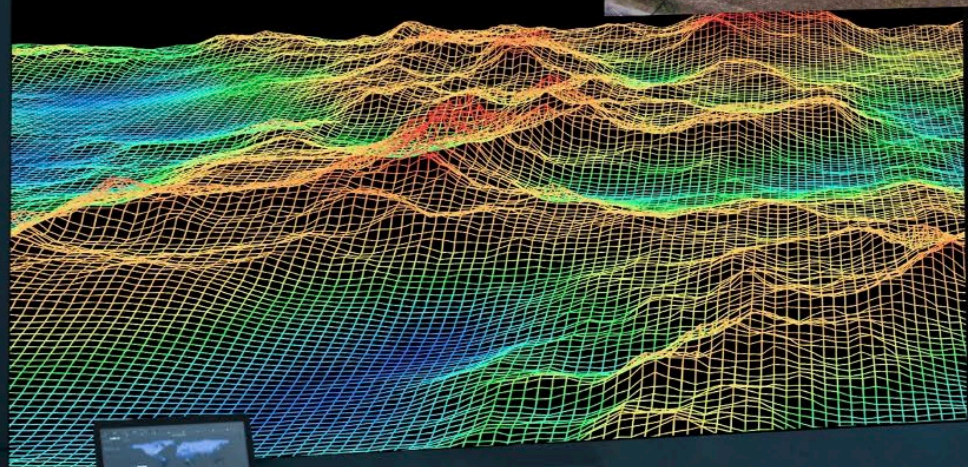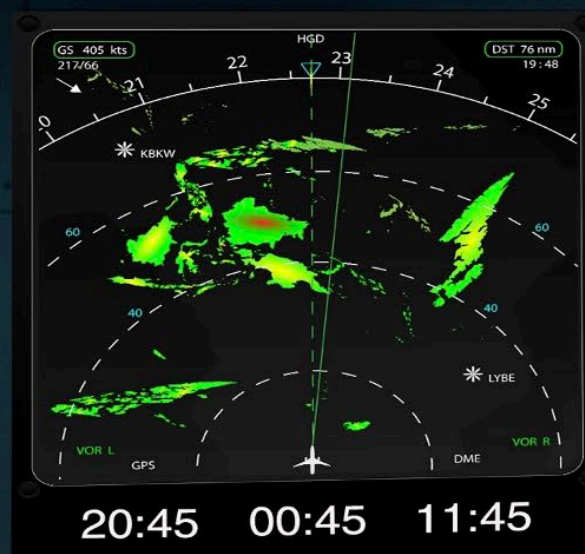0.7mm pixel pitch

165" direct view MicroLED
driven by MTR device

Zavus XP9

0.9mm pixel pitch

205" direct view MicroLED
driven by CRS-5K processor

21:9 5K video wall dimensions: Width 189 inches, Height 80 inches, Depth 1.1 inches

Zavus XP12

1.2mm pixel pitch

281" direct view MicroLED driven by Catalyst processor

21:9 5K video wall dimensions: Width 260 inches, Height 106 inches, Depth 1.1 inches

Ultimate 21:9 video wall processor

## Driving small to medium sized video walls at the highest resolution

- Ultra quiet i9 running Windows 10
- Output up to 5K 60Hz for Zavus XP
- Up to 16 inputs / outputs
- HDCP compliant
- Web / VNC / Application support
- Raid and redundant power supplies

◎Canvas™ software platform

Ultimate video wall management

- Web based, intuitive object-based, drag and drop interface
- Supports both Active Directory and Workgroup environments for user authentication
- Permission based access with identical views whether inside or outside of room
- Easily select streaming sources for sharing, annotate directly on live video and data, and control content from cameras, applications and web
- Arrange video and data windows anywhere on display wall at any size
- Save preset scenes in advance for quick recall for specific situations, specific users, or time of day
- Provides encrypted security and SSL authentication
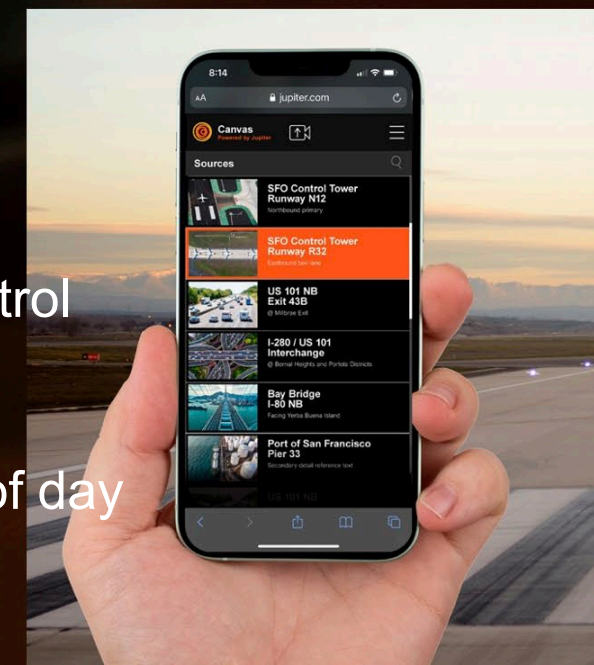
NEXT GEN

Pana X

Premium Line

Pana X Premium Line
Quantum Dot Mini-LED backlit LCD

Glass edge-to-edge true on every side

Jupiter

World's only 120Hz Native Refresh Rate at 5K

Our Quantum Dot Mini-LED backlight on a massive panel was so intense we had to develop a separate driver board as its engine. We went far beyond any enterprise display has ever accomplished in visual quality, challenging high-end home TV specs.
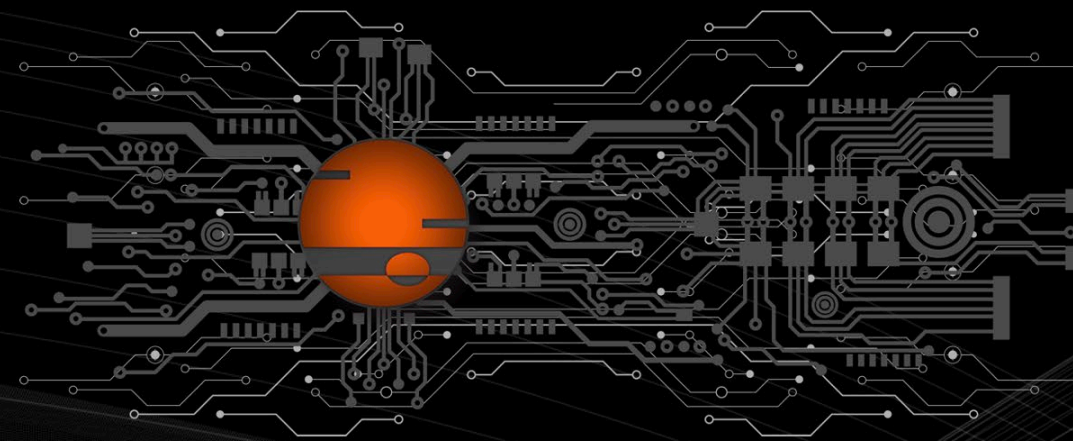
2300 Local dimming zones with Jupiter algorism
1,000,000:1 contrast
Up to 1000 nits sustained brightness, 2200 peak
DCI-P3 and Rec.2020 support
InGlass touch for premium precision experience
4+1 speaker system with woofer, 78w total power
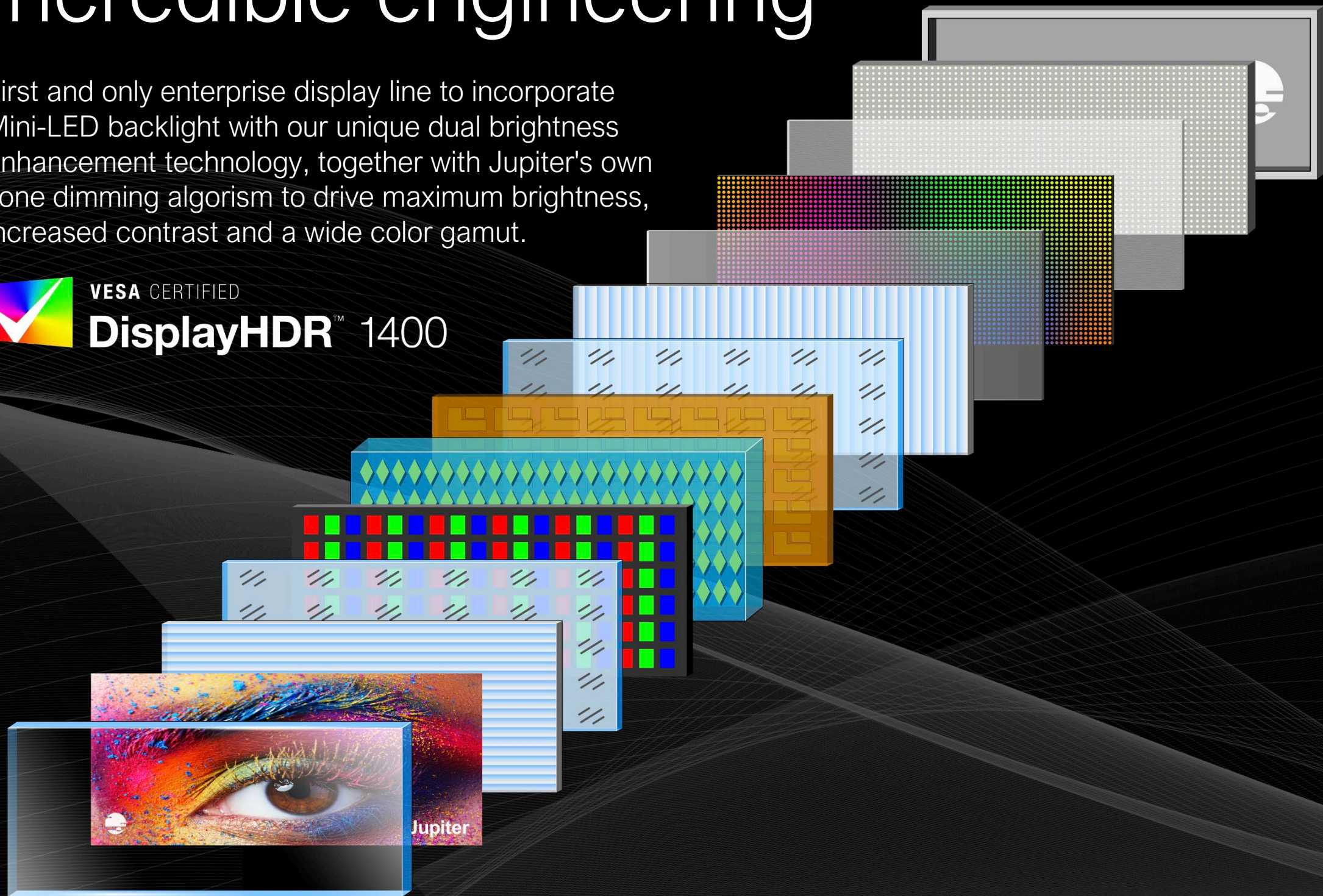Built-in USB-C 100w power delivery

Incredible engineering

First and only enterprise display line to incorporate Mini-LED backlight with our unique dual brightness enhancement technology, together with Jupiter's own zone dimming algorism to drive maximum brightness, increased contrast and a wide color gamut.
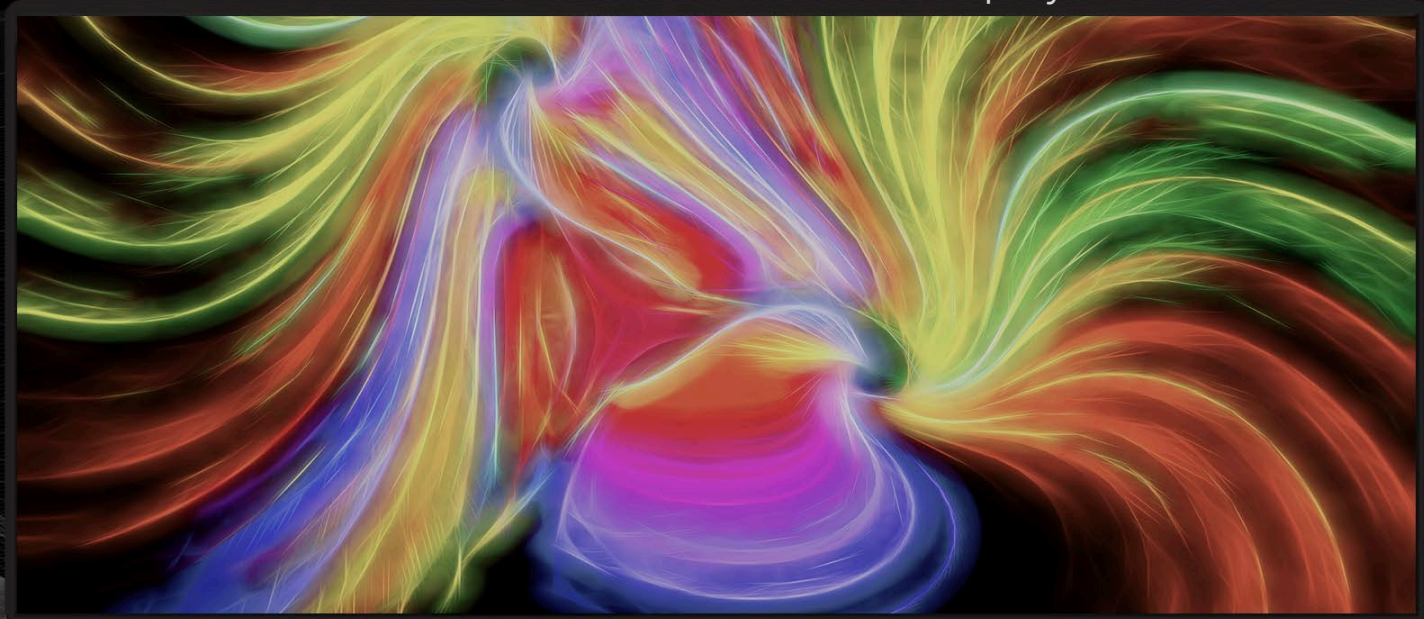
VESA CERTIFIED
DisplayHDR™ 1400

Jupiter's quantum-dot Mini-LED backlight with dual-brightness enhancement technology

Other run-of-the-mill 105" displays

Jupiter

Pana X Lineup

81"

1937.2 mm
76.3 inches

105"

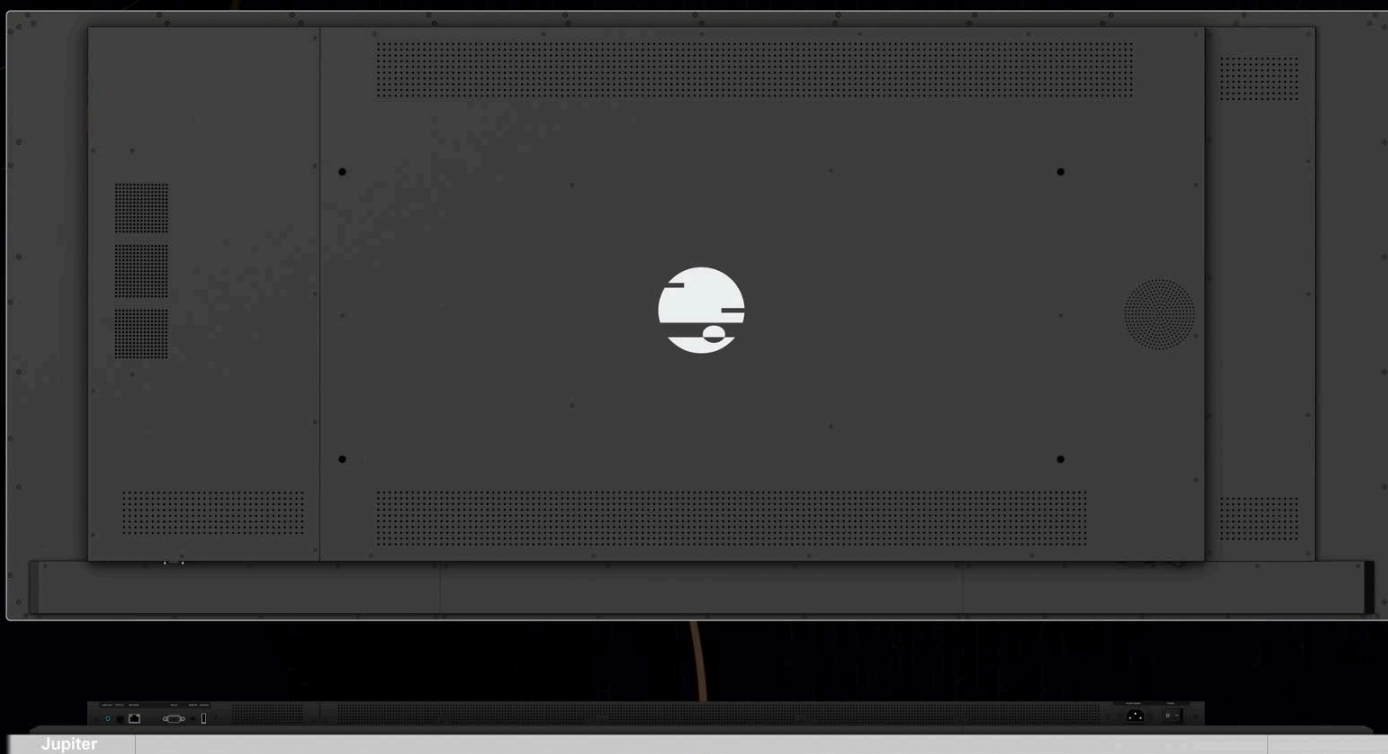2493.9 mm
98.2 inches

New metal-mesh capacitive conductivity for precision multi-touch. Low profile design.

Pana X models comprise a range of sizes in thin-profile touch or non-touch 120Hz 5K LCDs, each with optically bonded, tempered, anti-glare edge to edge glass, identical frame-less design, identical back, identical depth dimension, identical ports at identical locations.

Know one, know all.

No embedded (or hidden) Android system. No on-board computer or system to drive the 5K display

Meeting the most stringent IT requirement

No built-in system
No vulnerability risk
Fully secure display

Our name is on every key component inside

Jupiter Engineering

We own our Pana X electrical, optical and mechanical engineering
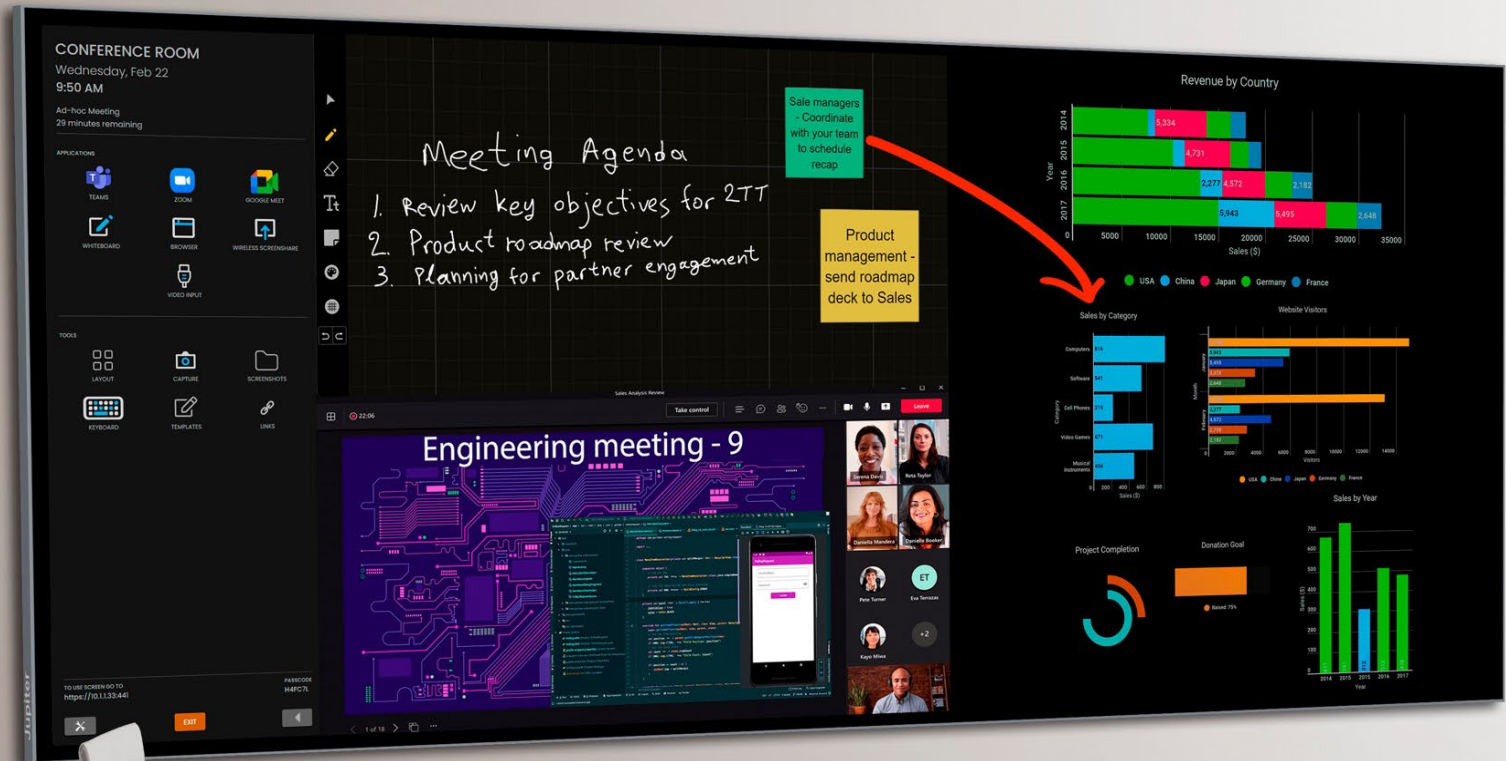
Pana 105XT
Pana 34

optional Jupiter proprietary
5K 120Hz onboard computer

Glass edge-to-edge, thin profile 105-inch with InGlass touch at 78mm total depth.

Pana 105X touch or non-touch models do not require furniture nor build-out under display.
Clean and elegant.

ADA Compliant

Total depth from wall to front of mounted display is less than 4 inches or 100mm

Pana 105X
45º down
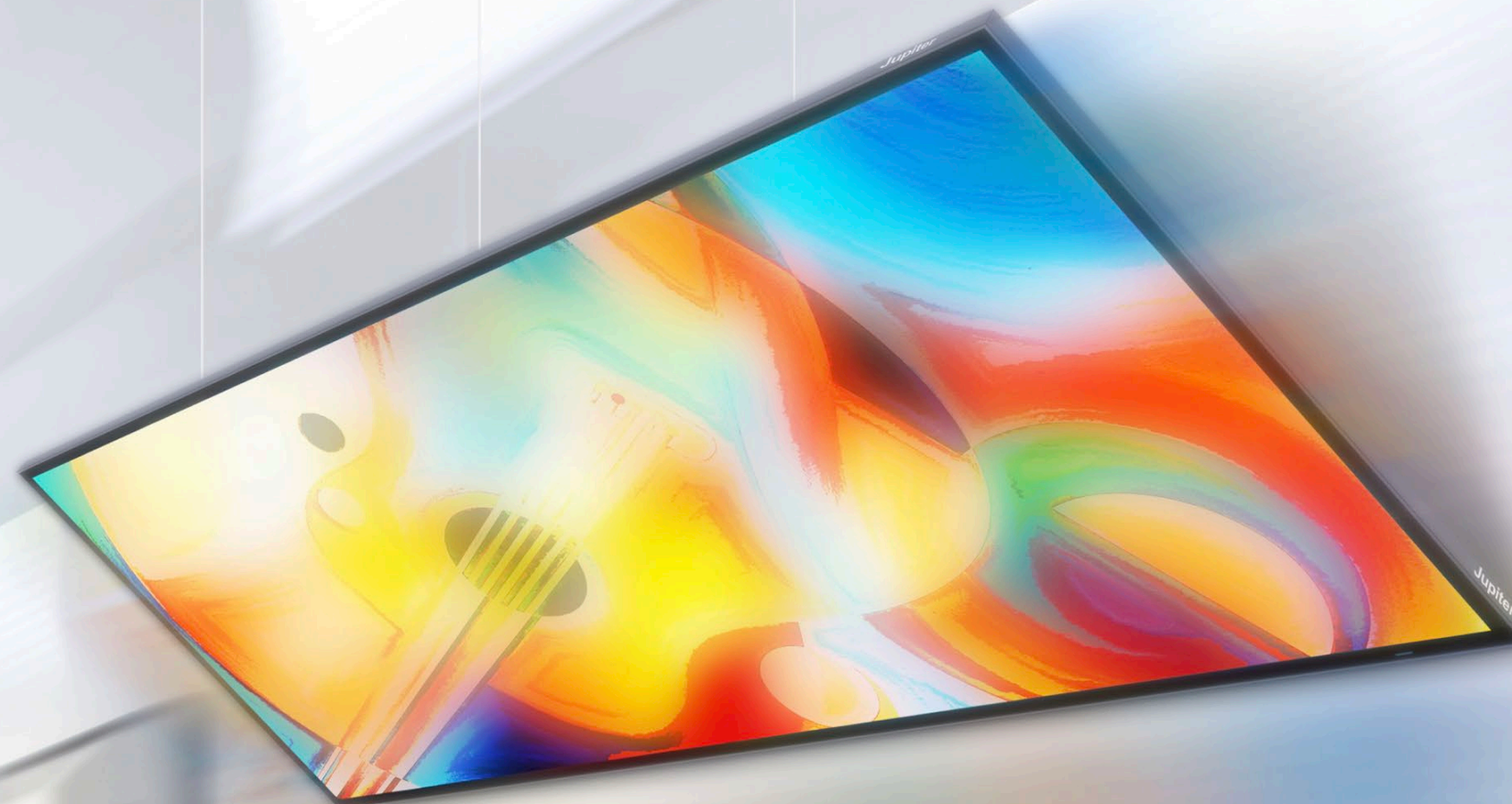
Pana 105X was engineered, tested and verified as a 45º downward mounted display

Pana 81XT
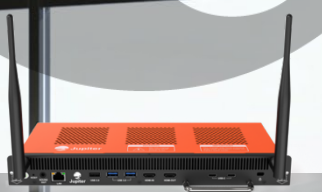
optional Jupiter proprietary
5K 120Hz onboard computer

Glass edge-to-edge, thin profile 81-inch with metal-mesh capacitive touch at 76mm total depth, ADA compliant.

Pana 81
table

Pana 81 interactive-touch was engineered, tested and verified as a face-up collaboration table

Pana 81XT

10:20AM
Tuesday, July 11

Sharing Key JVCVES

Improve the work environment with the beauty of Pana 81XT (thin profile new-gen precision metal-mesh capacitive)

5K with Jupiter confidence

Jupiter's Pana proprietary firmware
natively supports plug-and-play reverse touch
with Windows, MacOS, Android, and Linux systems.
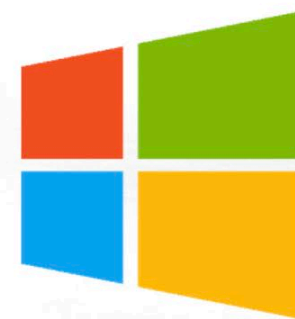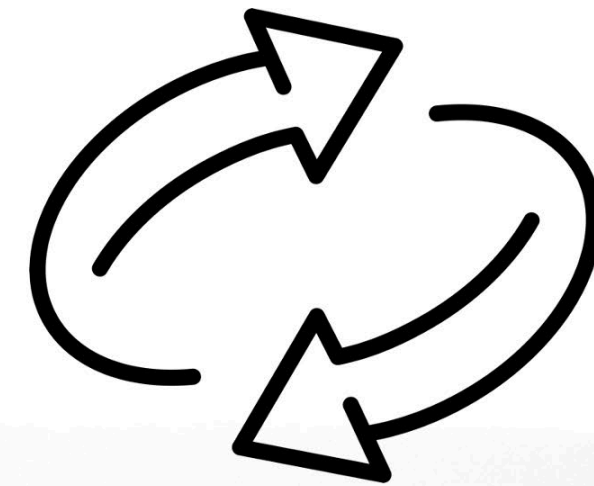
Jupiter Proprietary Computer Module

Unique dimensions with unparalleled features

Blazing fast 5K 120Hz refresh (Jupiter exclusive)

Intel i7 12700H Gen12 desktop processor with Trusted Platform
Module technology (TPM2.0), 12-core, 16GB dual SODIMM
DDR4 3200MHz, compatible with Gen13

Nvidia RTX3050 graphics card on a PCIe Gen4 x16 slot with 8GB
GDDR6 and 75-130W power consumption (discrete GPU)

256G SSD (upgradable)

Fits into Jupiter-specific slot on back of each Pana X display

Bluetooth 5.2   Wi-Fi 6

Jupiter Proprietary Computer Module

Unique form factor
Proprietary design
Powerful
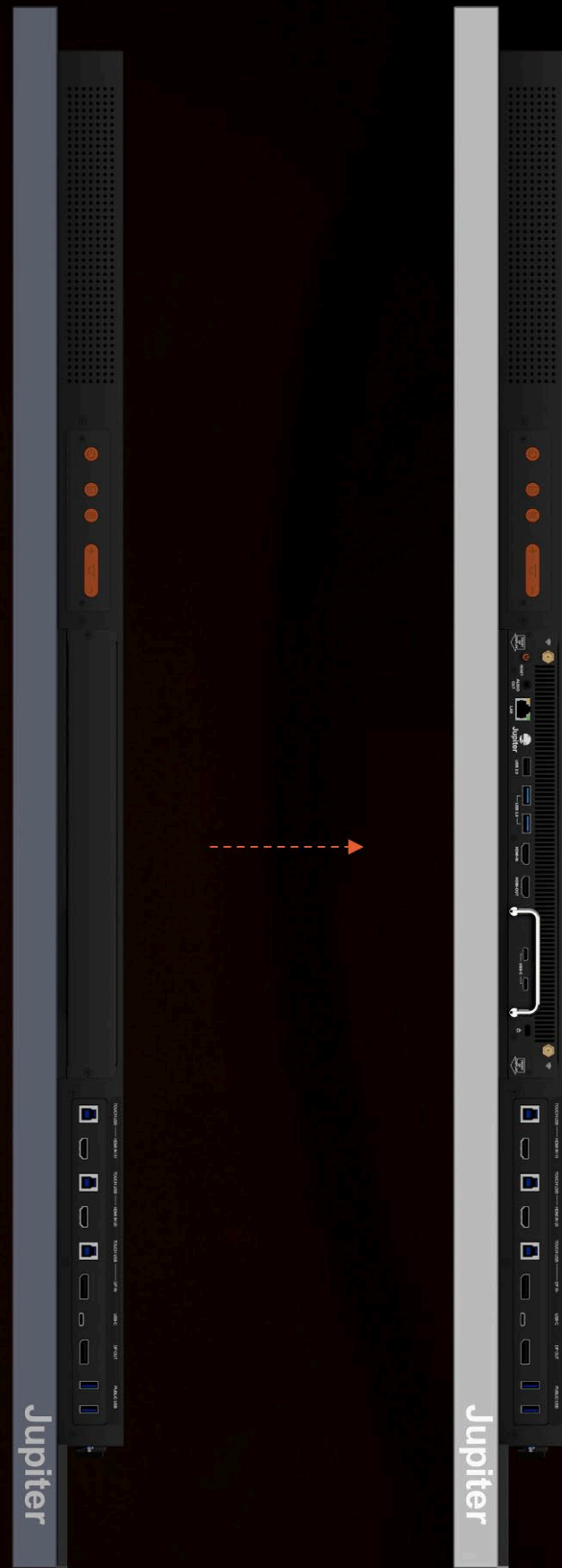
optional
JPCM

Jupiter Proprietary Computer Module
Desktop Chassis

5K 120Hz

Convert into a powerful mobile workstation

DisplayPort output 5K@120Hz

FRONT OF DISPLAY   RESET   AUDIO OUT   LAN   Jupiter   USB 2.0   USB 3.0   HDMI-IN   HDMI-OUT   USB-C   FRONT OF DISPLAY

Jupiter-color backlit power button

Pana

Uniquely developed and tooled accessories

At Jupiter, we designed our own 120Hz 5K main board with a newly launched chipset, blueprinted our own FPGA board, our own power board, our own Mini-LED hub board with proprietary local dimming algorithms.

Design
Engineer
Test
Manufacture

Pana 105XT in 45º downward aging test, with 50kg weights solely on glass 24/7
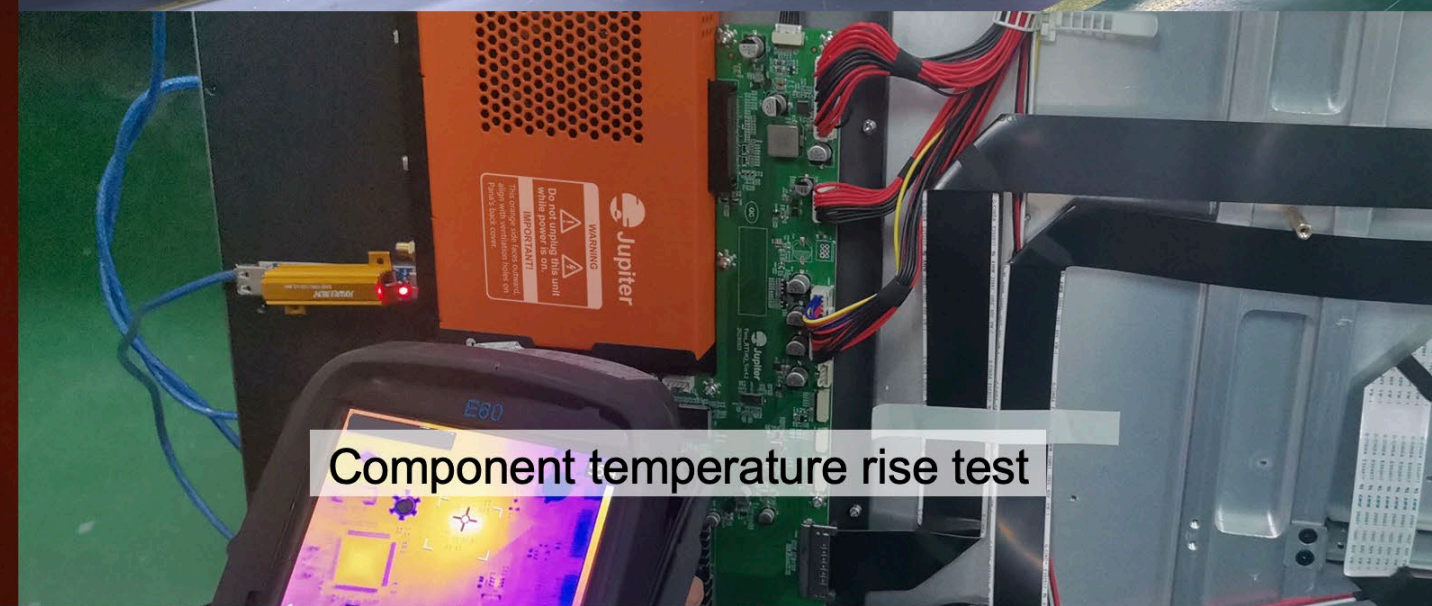
Component temperature rise test

Drop test for logistics
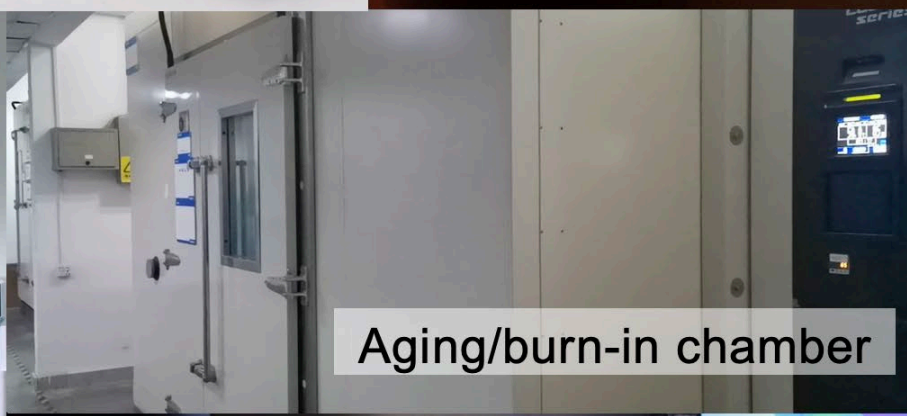
Aging/burn-in chamber

Pana 81XT flat face-up aging test
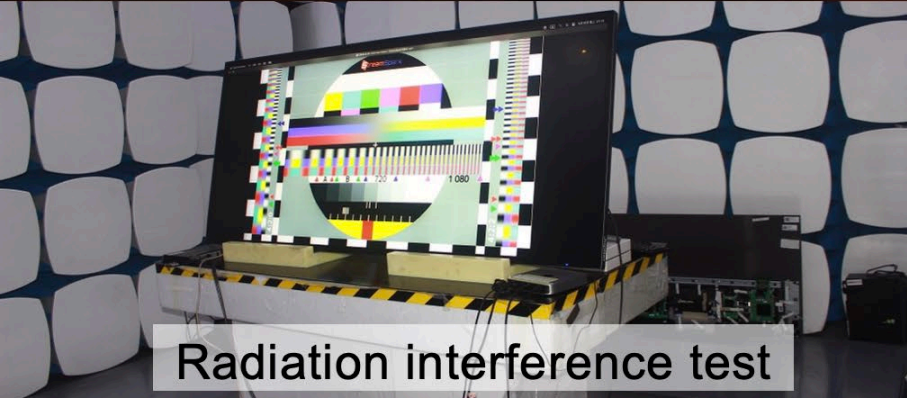
Radiation interference test
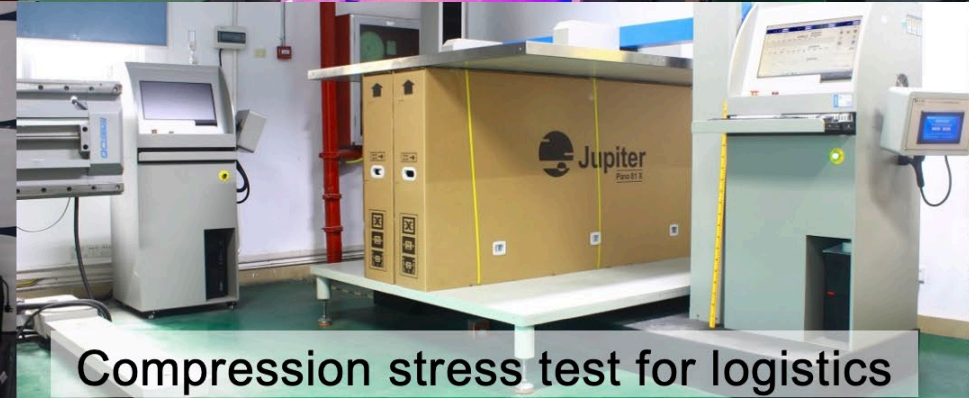
Compression stress test for logistics
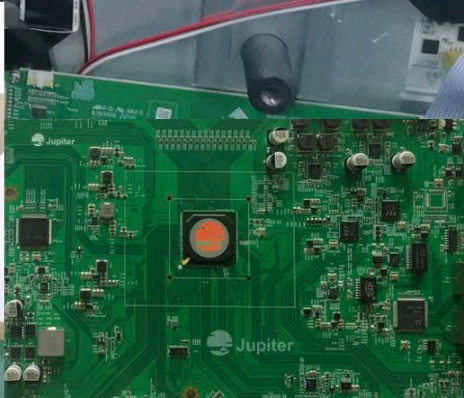
Vibration test

Designing the details

Pana 105's VESA pattern is 1500 x 600mm, developed so a mount can firmly support our large ultrawide dimension especially during touch usage.

Our X models' VESA pattern is perfectly centered when mounted in either landscape or portrait mode.

Jupiter's Pana packaging was designed to have the mounting holes fully exposed while the large display still rests in the box.

Pana X cardboard packaging has a burst strength of 30kgf (kilogram force) and edge crush resistance of 14kN/m (kilonewtons per meter), more durable means less prone to impact damage.

1500mm

600mm

Accessories

Accessories
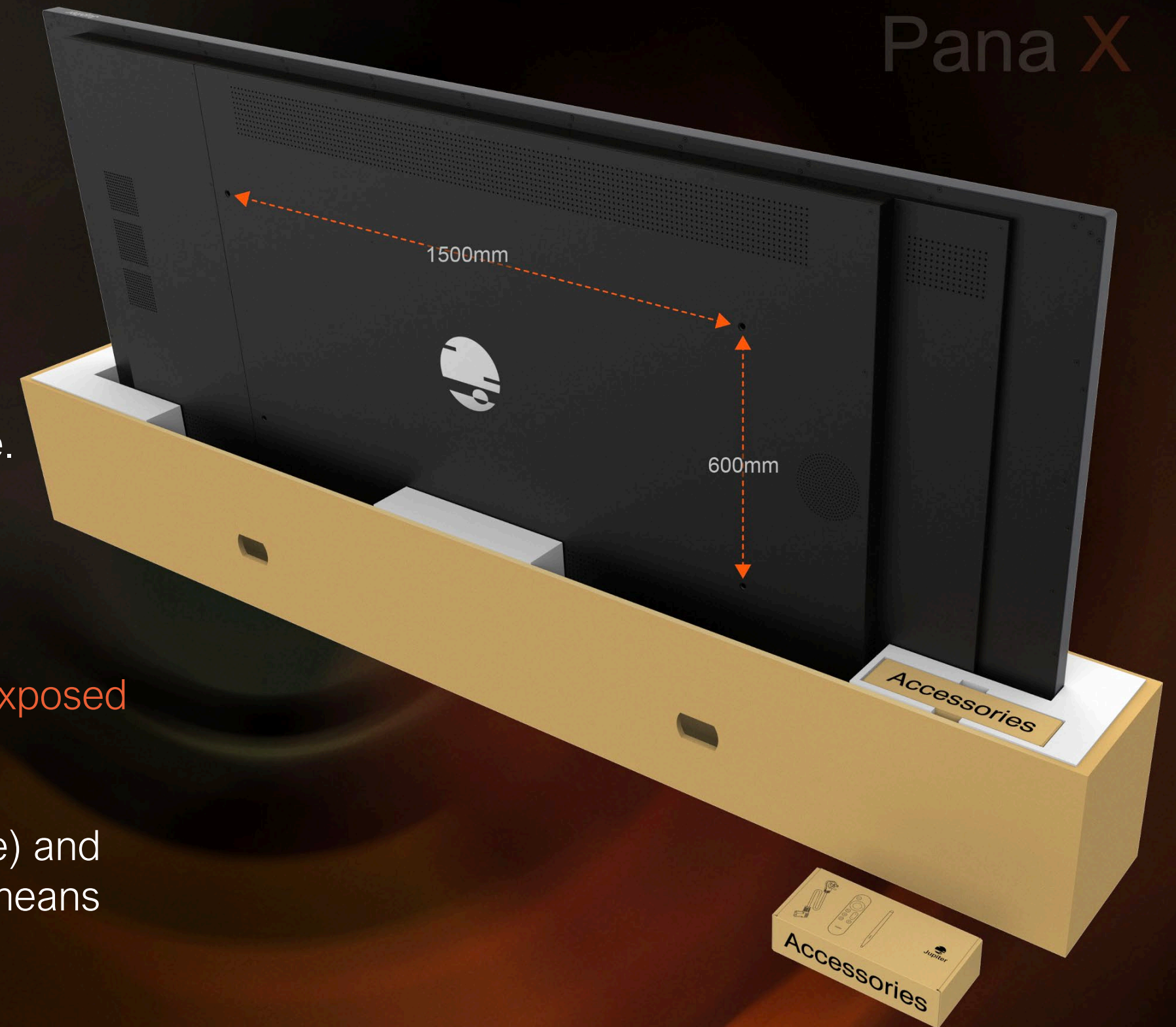
Pana
standard series

Best in class enterprise collaboration
and data visualization

Award winning LCD 5K ultrawide displays

Portrait or landscape

Interactive touch or non-touch

RoHS 2 / Energy Star certified

USB-C hub with power delivery

Global certifications

VESA CERTIFIED
DisplayHDR™ 400

Microsoft
Microsoft Teams Room

Pana 105D

Steelcase

Microsoft Teams Signature Room
in partnership with Steelcase

Pana 105 Bundle

Microsoft Teams Signature room bundle
with Crestron MTR kit and Salamander furniture

legrand AV

forum
COLLABORATION SUITE™

Microsoft Teams Room in partnership with Middle Atlantic

8 Feet
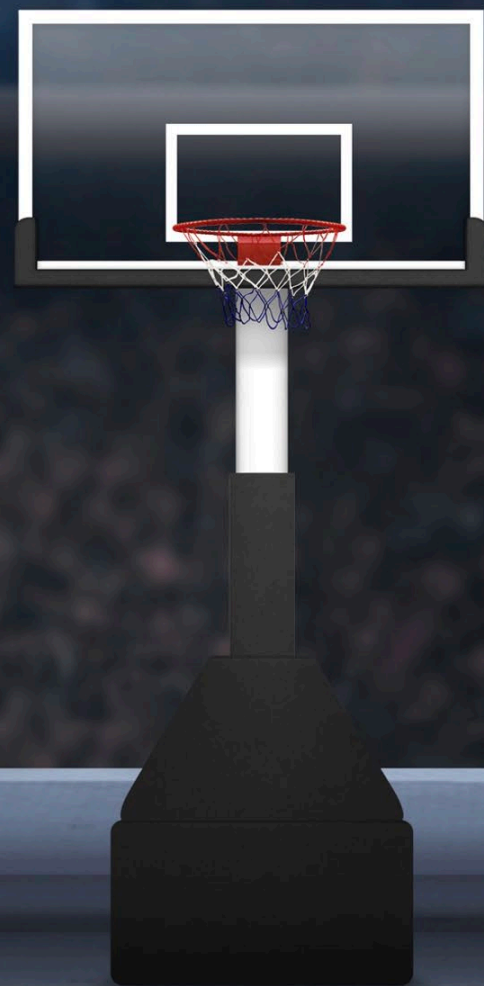
Pana 105
portrait mode

Covering the height of giants

Entire Pana 5K line can be used landscape or portrait

21:9 makes
elevator sense

Turned vertically, traditional 98" 16:9 LCD is approx 50 inches wide, 86" 16:9 is approx 45 inches wide, while
- Pana 105 is 41 inches wide
- Pana 81 is 33 inches wide

Pana 81T

81" diagonal
76" wide, 33" tall
Metal-mesh capacitive touch

Pana 34

BYOD all-in-one
hot-desk solution

-60°   +60°

-160°   +160°

ZOOM Certified

o Bezel-Less Display with 10 Point Precision OGM Multi-Touch

o 4K Camera with Microsoft Hello Face Authentication, $\pm160°$ Swivel, $\pm60°$ Tilt, 124° Ultra-wide Field of View @ F/1.8

o 8 Microphone Array

o 24-watt speaker system

o Active Pen with 4,096 Levels of Pressure Sensitivity

o Reverse touch Windows, Mac OS, Android devices

o Drafting Flex-Stand with $\pm40°$ swivel base

o Responsible packaging: Certified FSC (Forrest Stewardship Council) 100% recycled responsible forestry paperboard material, printed with soy-based ink

1ms Response Time

VESA CERTIFIED DisplayHDR™ 400

165Hz Refresh Rate

HDMI® HIGH DEFINITION MULTIMEDIA INTERFACE

AMD FreeSync Premium

Jupiter Pana comprehensive global certifications

Pana 105 & 81

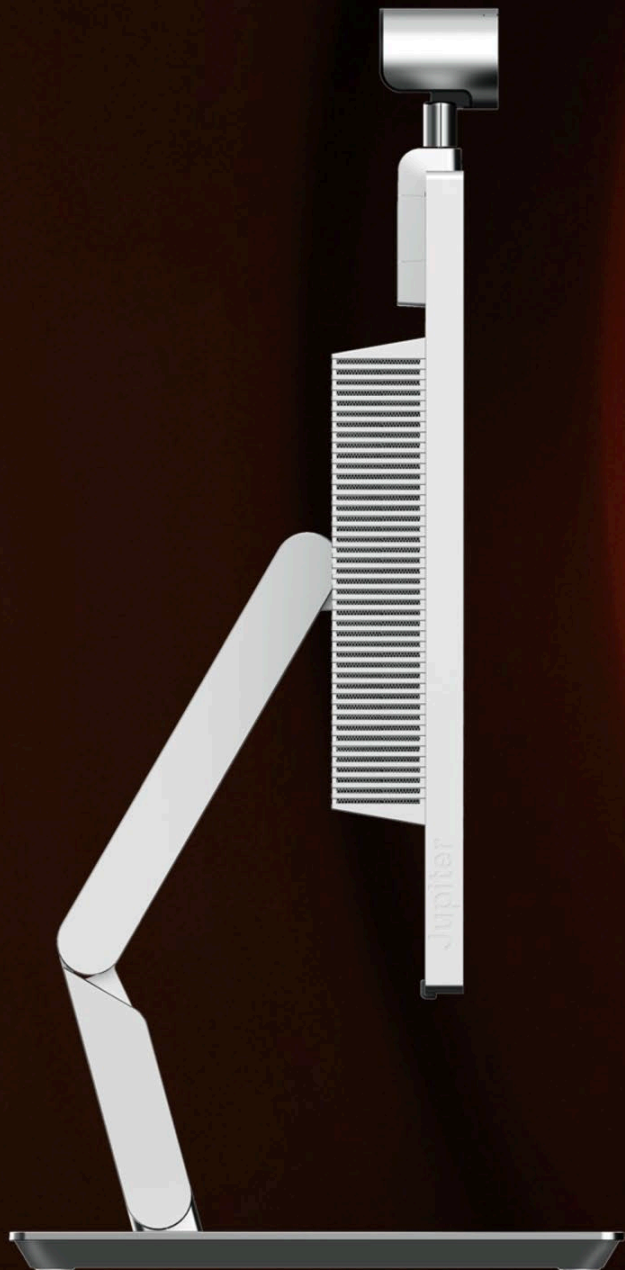| Geographic Region	Type	Standard(s)
USA	CA65	California Proposition 65
USA	Energy Star	ENERGY STAR® Program Requirements Product Specification for Displays
USA	cULus (UL+cUL)	CB 62368-1 3rd, CB 62368-1 2ED, CB 60950-1, UL/cUL 62368-1 3rd and complementary 60950-1
USA	CB	CB 62368-1 3rd, CB 62368-1 2ED, CB 60950-1, UL/cUL 62368-1 3rd and complementary 60950-1
USA	CEC (California Energy Efficiency) less than 5 models	CEC-140-2019-002
USA	FCC SDOC	Part 15B
Japan	圆形PSE (Product Safety of Electrical Appliance & Materials)	Technical Requirements Appendix 12: J62368-1(2020) IEC 62368:2014
Australia	SAA	62368-1 3rd
Australia	C-Tick	CISPR 32
Australia	Gems (Australia Energy Efficiency)	AS/NZS 62087
Australia	Gems Registration	AS/NZS 62087
Australia	RCM	AusRCM
UK	UKCA	BS EN 62368-1:2014+A11:2017
Europe	CE (EMC+LVD+RoHS)	EN 62368-1:2014+A11:2017, EN55032,EN55035, EN61000-3-2, EN61000-3-3 EN 61000-4-8:2010
Europe	ERP (energy related products)	EC NO 1275/2008
Europe	ROHS	2011/65/EU
Europe	REACH	SVHC 219
Europe	WEEE	2002/96/EC
Singapore	PSB COC	Based On CB
Brazil	INMETRO	IEC 60950, CISPR22, CISPR24
Saudi Arabia	IECEE	Based On CB
UAE	ECAS (ROHS report)	CB standards
India	BIS 1 sample 105T&D	TC-6563
Global	MSDS (Material Safety Data Sheet)	N/A
Global	VESA DisplayHDR	VESA DisplayHDR400 certified (HDMI, Pana 105D)
Italy, Norway, Poland, Netherlands, France	Each verified against EU CE standards	CE

Pana 34

Geographic Region	Type	Standard(s)
USA	CA65	California Proposition 65
USA	Energy Star	ENERGY STAR® Program Requirements Product Specification for Displays
USA	cULus (UL+cUL)	CB 62368-1 3rd, CB 62368-1 2ED, CB 60950-1, UL/cUL 62368-1 3rd and complementary 60950-1
USA	CB	CB 62368-1 3rd, CB 62368-1 2ED, CB 60950-1, UL/cUL 62368-1 3rd and complementary 60950-1
USA	CEC (California Energy Efficiency) less than 5 models	CEC-140-2019-002
USA	FCC SDOC	Part 15B
UK	UKCA	BS EN 62368:2018
Europe	CE (EMC+LVD+RoHS)	EN 62368:2018, EN55032, EN55035, EN61000-3-2, EN61000-3-3 EN 61000-4-8:2010
Europe	ERP	EC NO 1275/2008
Europe	ROHS	2011/65/EU
Europe	REACH	SVHC 219
Europe	WEEE	2002/96 / EC
Australia	C-TICK	CISPR 32
Australia	SAA	62368-1 3rd
Australia	Gems (Australia Energy Efficiency)	AS/NZS 62087
Australia	Gems Registration	AS/NZS 62087
Australia	RCM	AusRCM
Brazil	INMETRO	IEC 60950, CISPR22, CISPR24
Japan	PSE	Technical Requirements Appendix 12:J62368-1(2020) IEC 62368:2014
Global	MSDS (Material Safety Data Sheet)	N/A
Global	VESA DisplayPort / USB Type-C	DP & USB Type-C certified
Global	VESA DisplayHDR	VESA DisplayHDR400 certified (DP+USB Type-C)
Global	AMD FreeSync	AMD FreeSync Premium certified
Global	HDMI	HDMI 2.1a
Global	Zoom	Zoom certified
Italy, Norway, Poland, Netherlands, France	Each verified against EU CE standards	CE
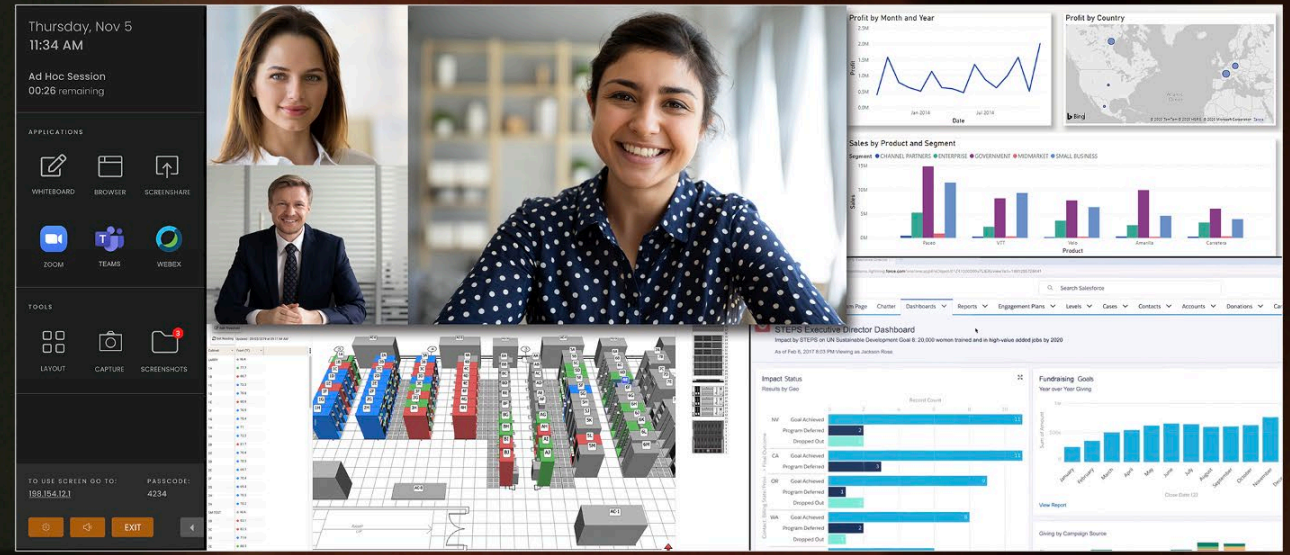
Jupiter's proprietary 21:9 5K collaboration gateway bundled with all Pana displays

Jupiter's processors are made in our California headquarters facility. Our factory space is ISO 9001:2015 certified for the design, development, manufacture, marketing, sales, order fulfillment, and call center support of visualization products. Our video wall processors support the 21:9 5K form factor.

Canvas, our powerful collaborative visualization software, along with SimpleShare, were designed and developed in the USA.

MADE IN USA

JITC Certified
JOINT INTEROPERABILITY TEST COMMAND
PixelNet®

Video Wall in a Box™

TAA bundle

- CRS-5K processor
- Canvas software
- Pana 105 or 81 display
- SimpleShare software

Manage up to 32 windows with flexible layout on a single Pana ultrawide display

A complete range of 21:9 displays

Product Name	21:9 Size (Diagonal)	5K	Display Type	Backlight	Local Dimming Zones	Contrast	Refresh Rate	Response Time	Brightness cd/m2	Touch Technology	Product Depth	ADA Compliant (with mount)
Zavus XP12	281"	✓	COB dvMicroLED with black resin, 1.2mm pixel pitch	NA	NA	1,000,000:1	60 Hz	<1 microsec	1000	NA	28 mm	✓
Zavus XP9	205"	✓	COB dvMicroLED with black resin, 0.9mm pixel pitch	NA	NA	1,000,000:1	60 Hz	<1 microsec	1000	NA	28 mm	✓
Zavus XP7	165"	✓	COB dvMicroLED with black resin, 0.7mm pixel pitch	NA	NA	1,000,000:1	60 Hz	<1 microsec	1000	NA	28 mm	✓
Pana 105X	105"	✓	IPS LCD	Quantum Dot Mini-LED	2304	1,000,000:1	120 Hz	4 ms	2200	NA	78 mm	✓
Pana 105XT	105"	✓	IPS LCD	Quantum Dot Mini-LED	2304	1,000,000:1	120 Hz	4 ms	2200	Bezel-less FlatFrog InGlass touch with 20 simultaneous touch points	78 mm	✓
Pana 81X	81"	✓	IPS LCD	Quantum Dot Mini-LED	2048	1,000,000:1	120 Hz	4 ms	1900	NA	76 mm	✓
Pana 81XT	81"	✓	IPS LCD	Quantum Dot Mini-LED	2048	1,000,000:1	120 Hz	4 ms	1900	Bezel-less metal-mesh capacitive with 20 simultaneous touch points	76 mm	✓
Pana 105D	105"	✓	IPS LCD	LED with local dimming	192	10,000:1	60 Hz	8 ms	700	NA	99 mm	
Pana 105T	105"	✓	IPS LCD	LED with local dimming	192	10,000:1	60 Hz	8 ms	700	Direct-bonding IR with 20 simultaneous touch points	110 mm	
Pana 81D	81"	✓	IPS LCD	LED with local dimming	192	10,000:1	60 Hz	8 ms	700	NA	83 mm	
Pana 81T	81"	✓	IPS LCD	LED with local dimming	192	10,000:1	60 Hz	8 ms	700	Bezel-less metal-mesh capacitive with 20 simultaneous touch points	85 mm	
Pana 34	34"	3440 x 1440	VA LCD	Edge lit LED	NA	4,000:1	165 Hz	1 ms	400	OGM mutual capacitive with 10 simultaneous touch points,, 4096 levels of Pen pressure	59 mm	✓

Responsible manufacturing
Eco conscious packaging

Jupiter's Pana manufacturing facilities are certified to these environmental and social standards

o   ISO 9001 Quality Management System

o   ISO 14001 Environment Management System

o   ISO 45001 Occupational Health and Safety Management Systems

o   SA 8000 Social Responsibility Standard

Pana packaging uses certified FSC (Forrest Stewardship Council) responsible forestry paperboard and recycled pulp.

Printing on packaging uses soy-based ink.

Jupiter's Pana displays are MSDS compliant throughout supply chain and manufacturing. Material Safety Data Sheet assures components and parts that make up the finished product to abide by strict chemical and raw material standards.

Jupiter

Jupiter.com