

# Extreme+ Series

Digital Signage Displays  
2023

# VESTEL

[www.vestelvisualsoptions.com](http://www.vestelvisualsoptions.com)





500 cd/m<sup>2</sup>

24/7 support

16/7 support

IPS

**UHD Resolution / 500 cd/m<sup>2</sup> of Brightness / IPS Panel Technology**

UHD resolution provides a super crisp image quality, along with a 500 cd/m<sup>2</sup> of brightness to ensure vibrant and colorful contents. IPS panel technology offers wide viewing angles within ambient light levels.

HDR 10 + 4K 60Hz

400 cd/m<sup>2</sup>

16/7 support

IPS

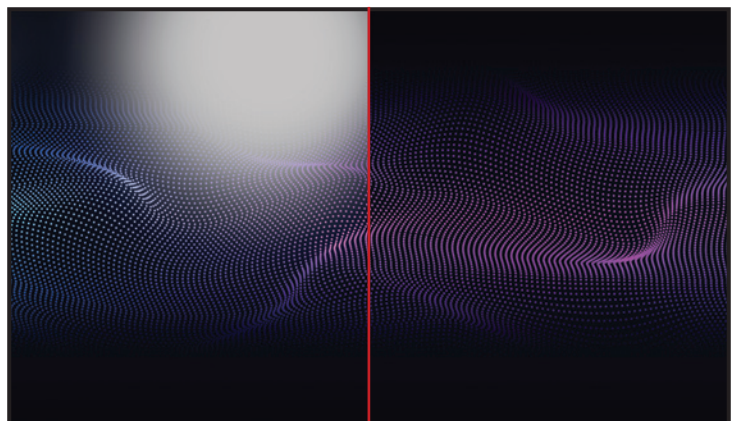
**UHD Resolution / 400 cd/m<sup>2</sup> of Brightness / IPS Panel Technology**

Extreme+ Series has additional model option that include 16/7 operation type, along with 400 cd/m<sup>2</sup> of brightness.

**High Haze Panels**

The surface of digital signage displays provides a visual connection among the screen and the viewer. A matte finish on the screen surface allows to scatter environmental light, instead of reflecting it to the viewer.

Anti-reflective high haze panels are now available with Extreme+ Series, for both 400 cd/m<sup>2</sup> and 500 cd/m<sup>2</sup> displays.



Low Haze

High Haze



# Design Features

**Extreme+ Series is available in screen sizes of 75", 86" and 98".**

**Every size includes their own mechanical design.**

## **Slim Design**

Extreme+ Series is the perfect combination of style and value. DLED backlight technology\* combined with specialized cabinet design. With their slim design, Extreme+ Series displays are ADA compliant.



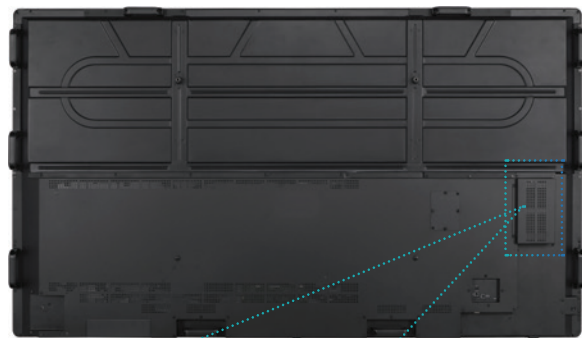
\*Except XN86D-4H.



## **OPS/SDM Support Option**

Extreme+ Series can be easily upgraded, as the design can accommodate either OPS or SDM modules, without any need of additional power or video cables.

\*Cabinet photo belongs to XD86D-4H.



OPS Module



SDM Module

## **Embedded WiFi and Bluetooth**



Extreme+ Series\* includes embedded WiFi and Bluetooth modules. These features can be used on the display without the need of any external dongle.

\*Available with XN75D-4H, XD75D-4H, XD86D-4H and XF98D-4H.

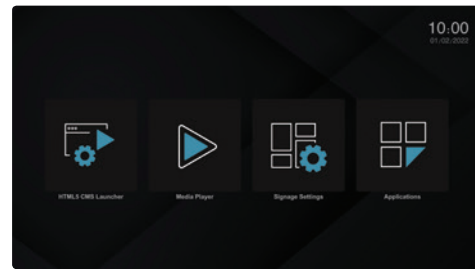
\*\*Cabinet photo belongs to XF98D-4H.

# Software Features



## Android System-on-Chip

Android-powered Extreme+ Series is suitable for many Content Management Software (CMS) applications. Any third-party Android application can easily be installed and launched.



## Customizable User Interface

Vestel provides a customizable user interface design. The background picture, icons and colours can be changed based on the user needs.



## Built-in APIs for web application

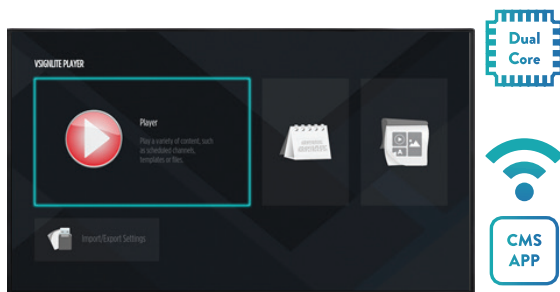
### HTML5 CMS Launcher

SoC is designed to run HTML5-based CMS applications on the embedded browser. Applications can be installed from a URL or USB stick to the internal storage, using HTML5 CMS Launcher.



### Auto Launch

Displays have auto launch features which allow end customer to automatically present content by any source such as HDMI, DP, Type-C or OPS, HTML5 CMS Launcher or any third party Android application.



## Embedded CMS

Embedded content management software supports playback library, ready templates, and scheduler. With its simple and intuitive menus and layout options, it is effective for small and medium enterprises.



## Device Management through RS232/LAN

Displays can be managed using the wide range of commands through serial port or local area network.

# Extreme+ Series

75"/86"/98"

1. Micro USB
2. HDMI OUT
3. HDMI IN 1
4. Display Port\*
5. HP
6. IR IN
7. HDMI IN 4
8. HDMI IN 3
9. HDMI IN 2
10. OPTICAL SPDIF
11. RJ12-SENSORS
12. RJ12
13. Micro SD
14. RS232 (3.5 mm jack)
15. RJ45 (Gbit ethernet)
16. USB-C 3.0\*
17. USB-A 3.0
18. USB-A 2.0
19. USB-A 2.0 (secure)
20. OPS/SDM Slot\*



## KEY SERIES FEATURES

- 4K HDMI @60Hz
- Display Control
- Scheduler
- USB Auto-Play
- USB Cloning
- USB Operations
- USB Information
- USB Safe Eject
- Auto-Launch
- Boot-up Picture
- Brightness Scheduling
- Sensor Compatibility
- 30° Tilting Installation
- Detachable Logo
- Detachable Power Cord
- OSD Rotation
- Pixel Shifting
- Signal Failover
- Input Search
- IP Streaming Support
- Playlist Creation
- SoC Content Management
- HTML5 API Support
- HDMI Wakeup
- HDMI Switching
- HDMI CEC
- HDMI Auto-Switch
- Improved UI
- Color Calibration(VW)
- Professional Design
- Built-in WiFi
- Built-in Bluetooth
- Longer Life Span
- OPS/SDM support options
- Touch Support
- USB Secure Cover
- Carrying Handles
- IR Extender
- Hidden Embedded IR Option
- Button Lock
- RCU Lock
- Menu Lock
- Device ID
- Display Lifetime
- Serial Number
- Software Upgrade
- Start Url
- OPS/SDM Status
- OPS/SDM Power Control
- Power-up Mode
- Power on Delay
- Videowall Settings
- Daisychain
- Volume Limit
- Startup Volume
- Headphone Volume

# Specifications

## XN Series

Model	XN75D-4H	XN86D-4H	XN98D-4H
<b>Panel</b>			
Screen Size	75	86	98
Backlight Type	DLED	ELED	DLED
Panel Technology	IPS	IPS	IPS
Brightness (typical)	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
Color Gamut	72% NTSC	72% NTSC	72% NTSC
Native Resolution	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	1200:1 (typ.)	1100:1 (typ.)	1200:1 (typ.)
Dynamic Contrast Ratio	50000:1	50000:1	50000:1
Panel Life Time	30000 Hrs	50000 Hrs	50000 Hrs
Response Time (typical)	8 ms	8 ms	8 ms
Active Area (H x V)	1650 (H) x 928 (V) mm	1895 (H) x 1066 (V) mm	2158.8 (H) x 1214.4 (V) mm
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	1.07G (8bits + FRC)	1.07B (10 bit)	1.07G (8 bit + FRC)
Haze Level	3%	28%	25%
Refresh Rate	60 Hz	60 Hz	60 Hz
Orientation	Landscape / Portrait	Landscape / Portrait	Landscape / Portrait
Operation Hours	24/7	24/7	24/7
Area of Usage	Indoor	Indoor	Indoor
<b>Mainboard</b>			
Mainboard Model	17MB400VS	17MB400VS	17MB400VS
OS	Android 9	Android 9	Android 9
Memory	2 GB DDR4	2 GB DDR4	2 GB DDR4
Storage	16 GB eMMC	16 GB eMMC	16 GB eMMC
Additional Storage	Micro SD (up to 1TB)	Micro SD (up to 1TB)	Micro SD (up to 1TB)
CPU	Quad-Core ARM Cortex-A55	Quad-Core ARM Cortex-A55	Quad-Core ARM Cortex-A55
GPU	ARM Mali-G31 MP2	ARM Mali-G31 MP2	ARM Mali-G31 MP2
Wired	10/100/1000 Mbps Ethernet IEEE 802.1X Authentication	10/100/1000 Mbps Ethernet IEEE 802.1X Authentication	10/100/1000 Mbps Ethernet IEEE 802.1X Authentication
WiFi	WiFi 5 (802.11 a/b/g/n/ac) IEEE 802.1X Authentication	WiFi 5 (802.11 a/b/g/n/ac) IEEE 802.1X Authentication	WiFi 5 (802.11 a/b/g/n/ac) IEEE 802.1X Authentication
Wireless Display	Miracast	Miracast	Miracast
Bluetooth	BT 5.1	BT 5.1	BT 5.1
HTML5 Browser	Vewd	Vewd	Vewd
<b>Monitor Connectivity</b>			
Video Input	4xHDMI2.0, 1xUSB-A 3.0, 1xUSB-A 2.0, 1xUSB-A 2.0 (Internal), 1x Micro USB	4xHDMI2.0, 1xUSB-A 3.0, 1xUSB-A 2.0, 1xUSB-A 2.0 (Internal), 1x Micro USB	4xHDMI2.0, 1xUSB-A 3.0, 1xUSB-A 2.0, 1xUSB-A 2.0 (Internal), 1x Micro USB
Video Output	1xHDMI2.0	1xHDMI2.0	1xHDMI2.0
Audio Output	Headphone, Optic SPDIF	Headphone, Optic SPDIF	Headphone, Optic SPDIF
External Control	RS232 (3.5mm jack green), Gigabit Ethernet (RJ45), Service (RJ12)	RS232 (3.5mm jack green), Gigabit Ethernet (RJ45), Service (RJ12)	RS232 (3.5mm jack green), Gigabit Ethernet (RJ45), Service (RJ12)
External Sensor	RJ12	RJ12	RJ12
<b>Mechanical</b>			
Product Dimensions (WxDxH)	1684 x 73 x 967 mm	1928 x 80 x 1099 mm	2216 x 98 x 1292 mm
Package Dimensions (WxDxH)	1948 x 210 x 1170 mm	2164 x 380 x 1405 mm	2423 x 380 x 1563 mm
Product Weight	37.5 kg	62 kg	102.2 kg
Package Weight	50.3 kg	83.75 kg	126.6 kg
Vesa Mounting	600 (W) x 400 (H) mm M8	600 (W) x 400 (H) mm M8	800 (W) x 400 (H) mm M8
Bezel Width (T/L/R/B)	B: 14 mm, T/L/R: 11 mm	B/T/L/R: 12 mm	B/T/L/R: 21.4 mm
<b>Environmental Conditions</b>			
Operating Temperature	0-40°C	0-40°C	0-40°C
Operating Humidity	10-90%	10-90%	10-90%
<b>Power</b>			
Power Supply	110 VAC - 240 VAC - 50/60 Hz	110 VAC - 240 VAC - 50/60 Hz	110 VAC - 240 VAC - 50/60 Hz
<b>Power Consumption</b>			
Typical	240 W	280 W	550 W
Maximum	320 W	400 W	600 W
Deep Standby	≤0.5 W	≤0.5 W	≤0.5 W
<b>Features</b>			
Main Features	HTML5 CMS Launcher, Android CMS Launcher, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, Auto-switch on Failover, Panel Lock, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Scheduler, Videowall support, Remote control via LAN, Real Time Clock, Crestron Connected, SNMP	HTML5 CMS Launcher, Android CMS Launcher, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, Auto-switch on Failover, Panel Lock, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Scheduler, Videowall support, Remote control via LAN, Real Time Clock, Crestron Connected, SNMP	HTML5 CMS Launcher, Android CMS Launcher, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, Auto-switch on Failover, Panel Lock, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Scheduler, Videowall support, Remote control via LAN, Real Time Clock, Crestron Connected, SNMP
Mechanical Features	Joystick, Rocker Switch, Detachable Power Cable, Detachable Logo, Internal USB Cover	Joystick, Rocker Switch, Detachable Power Cable, Detachable Logo, Internal USB Cover	Joystick, Rocker Switch, Detachable Power Cable, Detachable Logo, Internal USB Cover
Speaker	2x12 W	2x12 W	2x12 W
<b>Accessory</b>			
Standard	QSG, IB, Power cord, Remote control unit, RC battery, Mounting kit, IR extender cable	QSG, IB, Power cord, Remote control unit, RC battery, Mounting kit, IR extender cable, WiFi/ BT Dongle	QSG, IB, Power cord, Remote control unit, RC battery, Mounting kit, IR extender cable, WiFi/ BT Dongle
<b>Certification</b>			
Safety	Yes	Yes	Yes
EMC	Yes	Yes	Yes
CE	Yes	Yes	Yes

# Specifications

## XD/XF Series

Model	XD75D-4H	XD86D-4H	XF98D-4H
<b>Panel</b>			
Screen Size	75	86	98
Backlight Type	DLED	DLED	DLED
Panel Technology	IPS	IPS	IPS
Brightness (typical)	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>
Color Gamut	72% NTSC	72% NTSC	72% NTSC
Native Resolution	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD	3840 x 2160 (16:9) - UHD
Contrast Ratio (typical)	1200:1 (typ.)	1200:1 (typ.)	1200:1 (typ.)
Dynamic Contrast Ratio	40000:1	40000:1	40000:1
Panel Life Time	30000 Hrs	30000 Hrs	30000 Hrs
Response Time (typical)	8 ms	8 ms	8 ms
Active Area (H x V)	1650 (H) x 928 (V) mm	1895 (H) x 1066 (V) mm	2158.8 (H) x 1214.4 (V) mm
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10
Color Value	1.07G (8bits + FRC)	1.07G (8bits + FRC)	1.07G (8bits + FRC)
Haze Level	3%	25%	25%
Refresh Rate	60 Hz	60 Hz	60 Hz
Orientation	Landscape	Landscape	Landscape
Operation Hours	16/7	16/7	16/7
Area of Usage	Indoor	Indoor	Indoor
<b>Mainboard</b>			
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Additional Storage	Micro SD (up to 1TB)	Micro SD (up to 1TB)	Micro SD (up to 1TB)
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GPU	ARM Mali-G31 MP2	ARM Mali-G31 MP2	ARM Mali-G31 MP2
Wired	10/100/1000 Mbps Ethernet IEEE 802.1X Authentication	10/100/1000 Mbps Ethernet IEEE 802.1X Authentication	10/100/1000 Mbps Ethernet IEEE 802.1X Authentication
WiFi	WiFi 5 (802.11 a/b/g/n/ac) IEEE 802.1X Authentication	WiFi 5 (802.11 a/b/g/n/ac) IEEE 802.1X Authentication	WiFi 5 (802.11 a/b/g/n/ac) IEEE 802.1X Authentication
Wireless Display	Miracast	Miracast	Miracast
Bluetooth	BT 5.1	BT 5.1	BT 5.1
HTML5 Browser	Vewd	Vewd	Vewd
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Video Input	4xHDMI2.0, 1xUSB-A 3.0, 1xUSB-A 2.0, 1xUSB-A 2.0 (Internal), 1x Micro USB	4xHDMI2.0, 1xUSB-A 3.0, 1xUSB-A 2.0, 1xUSB-A 2.0 (Internal), 1x Micro USB	4xHDMI2.0, 1xUSB-A 3.0, 1xUSB-A 2.0, 1xUSB-A 2.0 (Internal), 1x Micro USB
Video Output	1xHDMI2.0	1xHDMI2.0	1xHDMI2.0
Audio Output	Headphone, Optic SPDIF	Headphone, Optic SPDIF	Headphone, Optic SPDIF
External Control	RS232 (3.5mm jack green), Gigabit Ethernet (RJ45), Service (RJ12)	RS232 (3.5mm jack green), Gigabit Ethernet (RJ45), Service (RJ12)	RS232 (3.5mm jack green), Gigabit Ethernet (RJ45), Service (RJ12)
External Sensor	RJ12	RJ12	RJ12
<b>Mechanical</b>			
Product Dimensions (WxDxH)	1684 x 73 x 967 mm	1962 x 79 x 1133 mm	2225 x 79.6 x 1282 mm
Package Dimensions (WxDxH)	1948 x 210 x 1170 mm	2163 x 380 x 1490 mm	2423 x 380 x 1563 mm
Product Weight	37 kg	62 kg	102.2 kg
Package Weight	50.2 kg	83 kg	126.6 kg
Vesa Mounting	600 (W) x 400 (H) mm M8	800 (W) x 600 (H) mm M8	1000 (W) x 400 (H) mm M8
Bezel Width (T/L/R/B)	B: 14 mm, T/L/R: 11 mm	B/T/L/R: 25 mm	B/T/L/R: 25 mm
<b>Environmental Conditions</b>			
Operating Temperature	0-40°C	0-40°C	0-40°C
Operating Humidity	10-90%	10-90%	10-90%
<b>Power</b>			
Power Supply	110 VAC - 240 VAC - 50/60 Hz	110 VAC - 240 VAC - 50/60 Hz	110 VAC - 240 VAC - 50/60 Hz
<b>Power Consumption</b>			
Typical	240 W	280 W	TBD
Maximum	320 W	400 W	TBD
Deep Standby	≤0.5 W	≤0.5 W	≤0.5 W
<b>Features</b>			
Main Features	HTML5 CMS Launcher, Android CMS Launcher, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, Auto-switch on Failover, Panel Lock, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Scheduler, Videowall support, Remote control via LAN, Real Time Clock, Crestron Connected, SNMP	HTML5 CMS Launcher, Android CMS Launcher, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, Auto-switch on Failover, Panel Lock, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Scheduler, Videowall support, Remote control via LAN, Real Time Clock, Crestron Connected, SNMP	HTML5 CMS Launcher, Android CMS Launcher, Open Content Management Support, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, Auto-switch on Failover, Panel Lock, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Scheduler, Videowall support, Remote control via LAN, Real Time Clock, Crestron Connected, SNMP
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<b>Accessory</b>			
Standard	QSG, IB, Power cord, Remote control unit, RC battery, Mounting kit, IR extender cable	QSG, IB, Power cord, Remote control unit, RC battery, Mounting kit, IR extender cable	QSG, IB, Power cord, Remote control unit, RC battery, Mounting kit, IR extender cable
<b>Certification</b>			
Safety	Yes	Yes	Yes
EMC	Yes	Yes	Yes
CE	Yes	Yes	Yes





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