Panasonic

Android Monitor and Handset Guide

The Android platform supports the following seatback monitors and handsets.

Astrova Monitor Hardware Specifications

Series	Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level	Tool Chain/ Target Library Set
Astrova	13"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	16"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	19"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	22"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	27"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	32"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	42"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64
	55"	3840x2160 (4K) UHD	Quad Core 2.2GHz (ASB)	8GB (ASB)	4GB Flash 256 GB UFS (ASB)	8.1/27	ARM64

Astrova Monitor Graphics Attributes

Series	Screen Size	Sensors	Density	Average DPI	Multi-touch
Astrova	13"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	16"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	19"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	22"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	27"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	32"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	42"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers
	55"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	xxhdpi	480	10 fingers

NEXT Monitor Hardware Specifications

Series		Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level	Tool Chain/ Target Library Set
Active Surface		7"	800x480 WVGA	Dual Core 800MHz	4GB	4GB SDHC	5.1/22	ARM64
Altus 4K		24"	3840x2160 (4K) UHD	Quad Core 1.4GHz	4GB	8GB eMMC 512 SDXC	7.1/25	ARM64
		32"	3840x2160 (4K) UHD	Quad Core 1.4 GHz	4GB	8GB eMMC 512 SDXC	7.1/25	ARM64
		43"	3840x2160 (4K) UHD	Quad Core 1.4GHz	4GB	8GB eMMC 512 SDXC	7.1/25	ARM64
Eco 4K	IOT	12"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		13"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
	Auto	12"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		13"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
Elite 4K	IOT	16"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		20"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		24"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		32"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		43"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64
	Auto	16"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64

Series		Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level	Tool Chain/ Target Library Set
		18"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		20"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		24"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		32"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
		43"	3840x2160 (4K) UHD	Quad Core 2GHz	8GB	4GB eMMC 256GB UFS	8.1/27	ARM64
Theater 4K	IOT	24"	3840x2160 (4K) UHD	Quad Core 2.3GHz	4GB	4GB eMMC 128GB UFS	8.1/27	ARM64
	Auto	16"	3840x2160 (4K) UHD	Quad Core 2GHz	4GB	4GB eMMC 128GB UFS	8.1/27	ARM64
		24"	3840x2160 (4K) UHD	Quad Core 2GHz	4GB	4GB eMMC 128 GB UFS	8.1/27	ARM64
WSCU		10"	1600x2560 WQXGA	Quad Core 2GHz	4GB	4GB eMMC 256GB UFS	8.1/27	ARM64

NEXT Monitor Graphics Attributes

Series		Screen Size	Sensors	Density	Average DPI	Multi-touch
Active Surface		7"	Accelerometer, Ambient Light, Proximity, Thermal	lhdpi	120	10 fingers
Altus 4K		24"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		32"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		43"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
Eco 4K	IOT	12"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		13"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
	Auto	12"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		13"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
Elite 4K	IOT	16"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		20"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		24"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		32"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		43"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
	Auto	16"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers

Series		Screen Size	Sensors	Density	Average DPI	Multi-touch
		18"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		20"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		24"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		32"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
		43"	Accelerometer, Ambient Light, Thermal	xxhdpi	480	10 fingers
Theater 4K	IOT	24"	Ambient Light, Thermal	xxhdpi	480	N/A
	Auto	16"	Ambient Light, Thermal	xxhdpi	480	N/A
		24"	Ambient Light, Thermal	xxhdpi	480	N/A
WSCU		10"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Thermal	xhdpi	320	10 fingers

X Series Monitor Hardware Specifications

Series		Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level
Altus		18"	1368x768 WXGA	Quad Core 1GHz	4GB	4GB SDHC 256GB SSD	5.1/22
		24"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 256GB SSD	5.1/22
		32"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 256GB SSD	5.1/22
Eco	V2	9"	1024x600 WSVGA	Quad Core 1GHz	2GB	4GB SDHC 64GB SDXC	5.1/22
		11"	1368x768 WXGA	Quad Core 1GHz	2GB	4GB SDHC 64GB SDXC	5.1/22
	V3	10"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		12"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
	V3 Plus	10"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		12"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		13"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
	V3 Plus, No Camera	13"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
	FW	10"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 64GB SDXC	5.1/22
Elite	V2	11"	1368x768 WXGA	Quad Core 1GHz	2GB	4GB SDHC 128GB SDXC	5.1/22
		12"	1368x768 WXGA	Quad Core 1GHz	2GB	4GB SDHC 128GB SDXC	5.1/22

Series		Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level
		16"	1368x768 WXGA	Quad Core 1GHz	2GB	4GB SDHC 128GB SDXC	5.1/22
		18"	1368x768 WXGA	Quad Core 1GHz	2GB	4GB SDHC 128GB SDXC	5.1/22
	V3	12"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		13"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		16"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 256GB SDXC	5.1/22
		18"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 256GB SDXC	5.1/22
	V3.1	12"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 256GB SDXC	5.1/22
	V3 Plus	13"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		22"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
	V3, No Camera	12"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
		13"	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SDXC	5.1/22
HDPSEB	V2	HDLCD	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 128GB SSD	5.1/22
	V3	HDLCD	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 512GB SSD	5.1/22
	V4	HDLCD	1920x1080 Full HD	Quad Core 1GHz	4GB	4GB SDHC 512GB SSD	5.1/22
IPSC	V3	9"	1024x600 WSVGA	Dual Core 800MHz	2GB	4GB SDHC	5.1/22

Series		Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level
	V4	13"	1920x1080 HD	Quad Core 1GHz	4GB	4GB SDHC	5.1/22
Theater	V2	16"	1366x768 WXGA	Quad Core 1GHz	2GB	4GB SDHC	5.1/22
		24"	1920x1080 Full HD	Quad Core 1GHz	2GB	4GB SDHC	5.1/22
	V3	16"	1920x1080 Full HD	Quad Core 1GHz	2GB	4GB SDHC	5.1/22
	V3 Retract	12"	1920x1080 Full HD	Quad Core 1GHz	2GB	4GB SDHC	5.1/22
WSCU		8"	1920x1080 Full HD	Dual Core 800MHz	4GB	8GB SDHC	5.1/22

X Series Monitor Graphics Attributes

Series		Screen Size	Sensors	Density	Average DPI	Multi-touch
Altus		18"	Accelerometer, Ambient Light, Proximity, Thermal	ldpi	120	5 fingers
		24"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	5 fingers
		32"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	5 fingers
Eco	V2	9"	Accelerometer, Ambient Light, Proximity, Thermal	ldpi	120	10 fingers
		11"	Accelerometer, Ambient Light, Proximity, Thermal	mdpi	160	10 fingers
	V3	10"	Accelerometer, Ambient Light, Thermal	tvdpi	213	10 fingers
		12"	Accelerometer, Ambient Light, Thermal	mdpi	160	10 fingers
	V3 Plus	10"	Accelerometer, Ambient Light, Thermal	tvdpi	213	10 fingers
		12"	Accelerometer, Ambient Light, Thermal	tvdpi	213	10 fingers
		13"	Accelerometer, Ambient Light, Thermal	mdpi	160	10 fingers
	V3 Plus, No Camera	13"	Accelerometer, Ambient Light, Thermal	mdpi	160	10 fingers
	FW	10"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	10 fingers
Elite	V2	11"	Accelerometer, Ambient Light, Proximity, Thermal	mdpi	160	10 fingers
		12"	Accelerometer, Ambient Light, Proximity, Thermal	ldpi	120	10 fingers

Series		Screen Size	Sensors	Density	Average DPI	Multi-touch
		16"	Accelerometer, Ambient Light, Proximity, Thermal	ldpi	120	10 fingers
		18"	Accelerometer, Ambient Light, Proximity, Thermal	ldpi	120	10 fingers
	V3	12"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	10 fingers
		13"	Accelerometer, Ambient Light, Proximity, Thermal	mdpi, tvdpi	160/213	10 fingers
		16"	Accelerometer, Ambient Light, Proximity, Thermal	ldpi, tvdpi	120/213	10 fingers
		18"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	10 fingers
	V3.1	12"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	10 fingers
	V3 Plus	13"	Accelerometer, Ambient Light, Proximity, Thermal	mdpi	160	10 fingers
		22"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	10 fingers
	V3, No Camera	12"	Accelerometer, Ambient Light, Proximity, Thermal	tvdpi	213	10 fingers
		13"	Accelerometer, Ambient Light, Proximity, Thermal	mdpi	160	10 fingers
HDPSEB	V2	HDLCD	Thermal	tvdpi	213	N/A
	V3	HDLCD	Thermal	tvdpi	213	N/A
	V4	HDLCD	Thermal	tvdpi	213	N/A
IPSC	V3	9"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	ldpi	120	N/A

Series		Screen Size	Sensors	Density	Average DPI	Multi-touch
	V4	13"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	mdpi	160	10 fingers
Theater	V2	16"	Thermal	ldpi	120	N/A
		24"	Thermal	ldpi	120	N/A
	V3	16"	Thermal	ldpi	120	N/A
	V3 Retract	12"	Thermal	mdpi	160	N/A
WSCU		8"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity, Thermal	hdpi	240	N/A

NEXT Handset Hardware Specifications

Series	Screen Size	Resolution	Speed	RAM	Memory	Android Version/ API Level	Tool Chain/ Target Library Set
Premium Handset	4.5"	1280x530 HD	Quad Core 2.3GHz	4GB	8GB eMMC	8.1/27	ARM64

NEXT Handset Graphics Attributes

Series	Screen Size	Sensors	Density	Average DPI	Multi-touch
Premium Handset	4.5"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity	hdpi	240	10 fingers

Video Handset Hardware Specifications

Series		Screen Size	Resolution	Processor	Speed	RAM	Memory	Android Version/ API Level
VHS (Video Karma)	V2	4.3"	1280x720 HD	Freescale I.MX6	Dual Core 1GHz	2GB	4GB SDHC	5.1/22
Standard Touchpad Handset		N/A	N/A	ARM Cortex M3	80MHz	96KB	N/A	5.1/22

Video Handset Graphics Attributes

Series		Screen Size	Sensors	Density	Average DPI	Multi-touch
VHS (Video Karma)	V2	4.3"	Accelerometer, Ambient Light, Gyroscope, Magnetometer, Proximity	xhdpi	320	10 fingers
Standard Touchpad Handset		N/A	Accelerometer, Gyroscope, Magnetometer	N/A	N/A	N/A

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