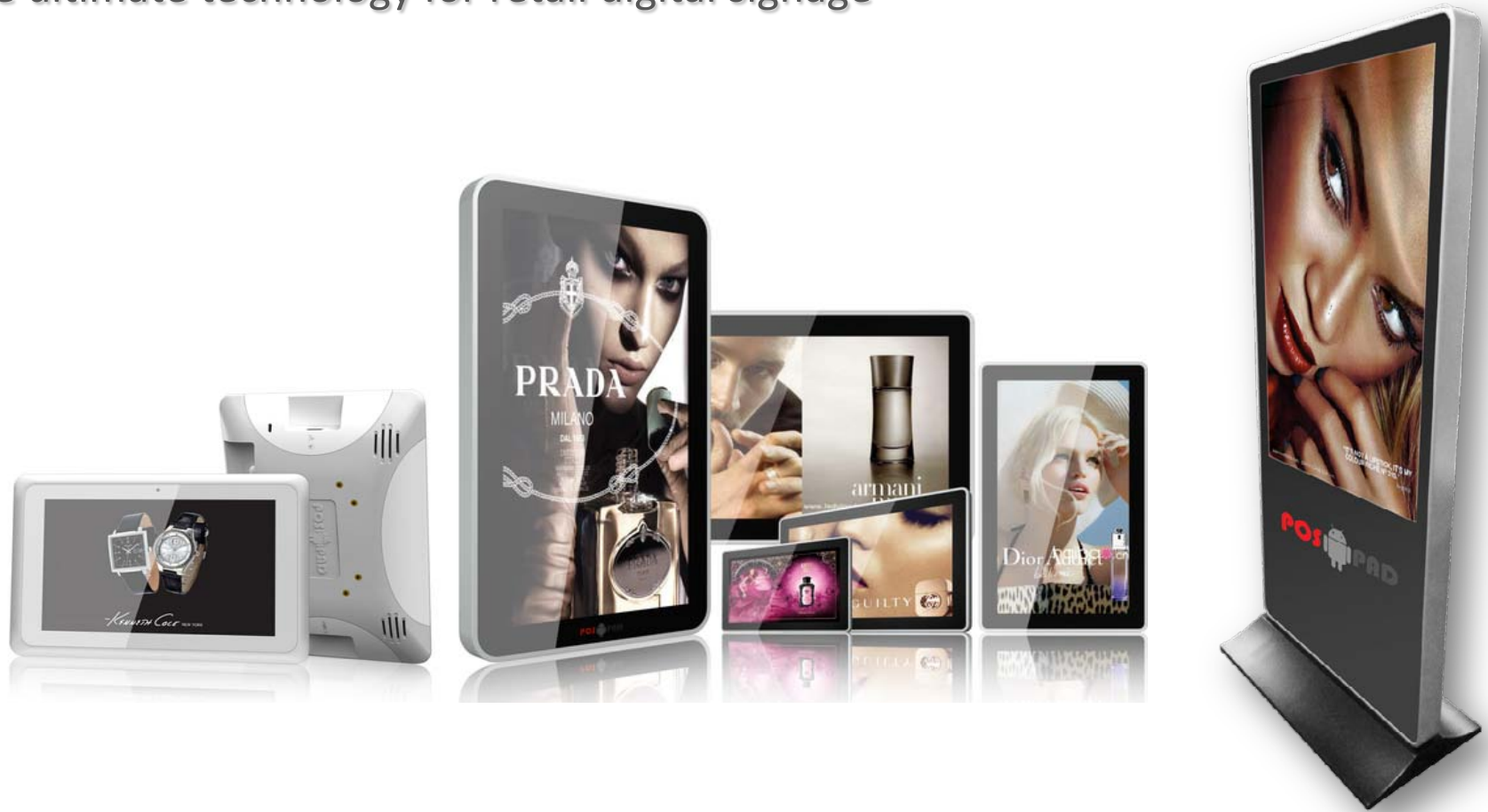


CDSPAD Presentation

The ultimate technology for retail digital signage



www.crystal-display.com

10 Reasons to choose **CDSPAD**

1 Built for digital signage advertising use

The CDSPAD is nothing like a consumer tablet, but thoughtfully designed for advertising use in retail shops for running continuously 24/7.

With integrated powerful hardware and smart software for retail use, adding features such as robust case, VESA mounting, SD and 3G SIM card protection system, anti-theft system, back hidden quick control buttons, high-quality stereo audio output, the CDSPAD is the best digital signage solution for the demanding retail environment.



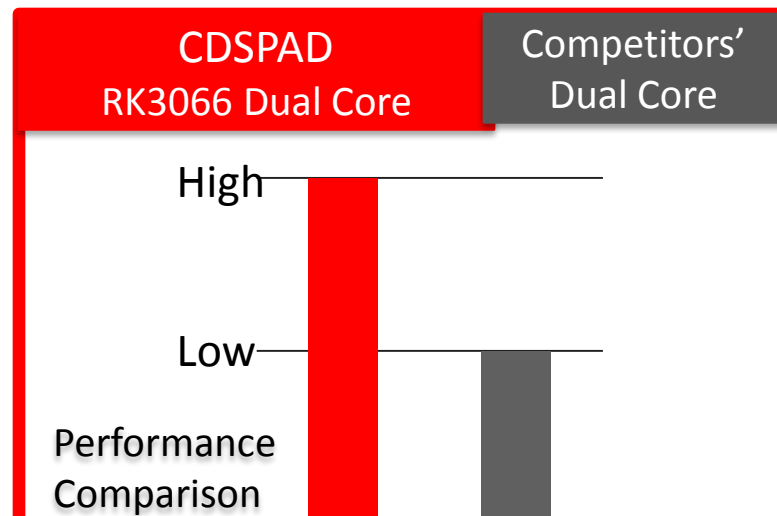
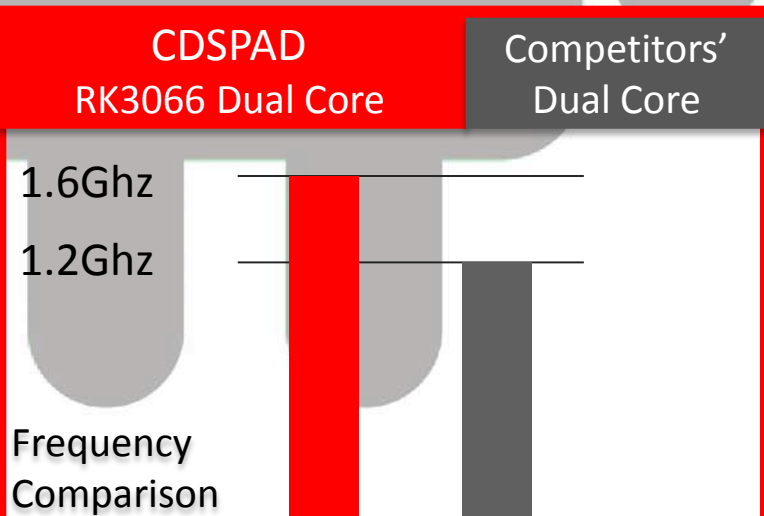
2

RK3066 1.6Ghz dual core CPU, quad core GPU



The CDSPAD tablets and kiosks are all applied with RK3066 dual core Cortex A9 chipset with peak frequency 1.6Ghz supporting latest ARM artisan processor optimized package. Apps launch instantly and run smoothly. Featured with Quad core GPU Mali 400, Graphics-intensive apps are fluid and lifelike on the CDSPAD display.

Combined with 1GB(2GB optional) double-channel DDR3 memory, our CDSPAD tablets and kiosks are distinguished totally from other low-performance dual core solutions.



3

IPS technology, brighter, faster, shaper and clearer

Our CDSPAD 10.1" is featured with 10.1" IPS screen. IPS hard screen technology is the most advanced liquid crystal technology.

Compared to traditional LCD Displays, IPS screens are much more responsive to touch with brighter, sharper and clearer images for optimum visual quality

Our medium and large-sized CDSPAD are all applied with high brightness LED panels with wide viewing angle



IPS screen



Normal screen

4 High-quality tempered glass multi-touch panel

Our small and medium-sized CDSPADs are featured with capacitive multi touch panel. The capacitive touch panel is made of scratch-free tempered glass, and produced with double-deck glass and advanced laser carving. As a result the touch panel offers better response and accuracy, giving consumers a smooth, pleasant touch experience.

Our large-sized CDSPAD features an IR multi touch panel, with the most accurate and consistent touch sensing capabilities. The IR touch panel consists of a touch frame which is installed in front of the panel and integrated with a printed circuit board which contains a line of IR-LEDs and photo transistors hidden behind the bezel of the touch frame.



5 Android 4.1.1 OS

Android 4.1.1 OS applies new processing architecture, further optimizes dual core processor and improves hardware performance.

Compared to our 1st generation of single-core CDSPAD with Android 2.3 OS, this new generation of dual-core CDSPAD with Android 4.1.1 OS has accelerated webpage opening speed by 50%, app installation speed by 25%, app loading speed by 16%, video and photo loading speed by 30%.

The CDSPAD can be installed with multiple applications downloaded from Android Market, to realize different customized demands.



6

Elegant design with durable case

Our CDSPAD 10.1" is designed with high-quality ABS case with partial rubber injection, thus greatly improve the resistance against scratches

Our medium and large-sized CDSPAD and Android Kiosk is designed with high-quality powder-coated metal case with aluminum border.



CDSPAD 10.1"



Medium and large-sized CDSPAD™



Android Kiosk

7

Vesa mount & anti-theft system & additional ports

Unlike consumer tablets, all the CDSPADs are designed with VESA mounting holes on the back, SD & 3G SIM card with protection cap and anti-theft cable fixing holes to meet the demanding environment of retail shops

Besides built-in Wi-Fi and 3G connections, the CDSPAD comes with a direct RJ45 Ethernet Connection and a SD memory slot to expand the internal memory up to 32GB.

On each CDSPAD, there are 2 USB ports especially designed for connecting to external motion sensor and NFC module. You can also connect printer, bar code scanner, etc to the USB ports located on the back bottom side of the CDSPAD

The CDSPAD supports HDMI output for displaying the same content in another display simultaneously



8

Play Full HD video smoothly, support Flash&HTML5

The CDSPAD tablets or kiosks play full HD 1080P videos smoothly, and are compatible with 480P and 720P videos in all kinds of formats: TS, H.264, WMV, MPEG4, etc.

The CDSPAD tablets or kiosks support Adobe Flash 11.0 and HTML5 animation technology, and can easily access dynamic webpage, and on-line vides or games.



9

Integrated smart software, compatible with CMS

With our smartly designed X-FILER technology, any application installed on the CDSPAD tablets or kiosks can be set up as the default auto start app with full screen display without the menu bar; Or the media files stored in the SD card can be set up in auto repeat loop mode (repeat one, repeat all, or playlist repeat) once connected to power.



With more features such as motion sensor activation, auto power on and off, password protection, USB auto copy, data performance report, and compatible with a wide range of third-party CMS, the CDSPAD is the best android-based digital signage display

- Auto play of your designed app once connected power
- Full screen display of app without Android menu bar
- Password protection
- Auto power on and off at designated time
- Auto SD card content update by USB key
- Optional motion sensor function



10 Complete range of sizes, fully customizable

The CDSPAD tablets are offered in small-sized range(10.1”), medium-sized range(15.6”,18.5”,21.5”) and large-sized range (32”,42”,47” and 55”). The CDSPAD kiosks are offered in 32”, 42”, 47” and 55”

We offer complete flexibility, and each CDSPAD tablet and kiosk can be produced based on client’s requirements, such as without touch screen or with touch screen but different touch points, with or without camera, integration of a special 3G data modem, open frame case or specially designed case.

We also help our clients to test and install designed application, or third-party CMS. You'll be ready to go when you open the box.





CDSPAD 10.1"

Panel	Screen Size	10.1" IPS
	Touch panel type	10-point Capacitive touch
	Resolution	1280 x 800
	Brightness	350cd/m ²
	Contrast Ratio	(1300:1)
	Aspect Ratio	(16:10)
Hardware & OS	Main Frequency	Cortex-A9 Up to 1.6GHz
	GPU	Quad-Core 2D/3D OpenGL ES2.0(AMD Z430)/OpenVG1.1
	RAM	1G DDR3 (2G optional)
	FLASH	8GB (16GB optional)
	OS	Android 4.1.1
	I/O ports	1 x RJ45, 2 x USB 2.0, 1 x USB 1.0, 1 x HDMI out, 1 x earphone, 1 x SD card slot, 1 x DC Jack, 1 x 3G Sim card slot
	Front Camera(Optional)	2,000,000 pixels
Video	1080P Video support	AVI,H.263,H.264,VC-1,MPEG-2,MPEG-4, DIVD/DIVX, Real8/9/10, RM,RMVB ,PMP,FLV, MP4,M4V,VOB, WMV,3GP,MKV,ASF, 3G2M4V, MJPEG,RV10
Audio	Built-in Speakers	1.5W X 2
	Audio codes	MP1,MP2,MP3,WMA,OGG,AAC,M4A,FLAC,APE,AMR,RA,WAV
Buttons	Quick control buttons	Home, volume+/-, brightness +/-
Connectivity	Wired	Ethernet 10/100
	Wireless	Built-in WIFI 802.11b/g/n
	3G(Optional)	3G wireless data modem
Power	Power Input	DC 12V, 1.5A
	Consumption	20W
Software	X-FILER	Auto boot start and full screen display of any appointed app; Or auto playback SD card media files Auto Power on/off / Motion sensor / Data log Function
General Info	Case Material	High-quality ABS case
	Color	Black & White (Customized color upon request)
	Dimension&Weight	280 x 190.6 x 30mm / 0.65kgs
	Operation / Storage Temp	(0 -- 50 degree) / (-15 -- 65 degree)



Medium-sized CDSPAD

Panel	Screen Size	15.6"	18.5"	21.5"
	Touch panel type	Capacitive multi touch panel, or resistive single touch panel or non touch		
	Active Area	344.16 x 193.59	409.8 x 230.4	476.64 x 268.11
	Resolution	1600 x 900	1366 x 768	1920 x 1080
	Pixel pitch	0.2151 x 0.2151	0.3x 0.3	0.248x 0.248
	Brightness	250cd/m ²	200cd/m ²	250cd//m ²
	Contrast Ratio	(500:1)	(1000:1)	(1000:1)
	Aspect Ratio	(16:9)	(16:9)	(16:9)
	Viewing Angle	60/60/50/50	85/85/80/80	85/85/80/80
Hardware & OS	CPU	RK3066 Dual Core		
	Main Frequency	Cortex-A9 Up to 1.6GHz		
	GPU	Quad-Core 2D/3D OpenGL ES2.0(AMD Z430)/OpenVG1.1		
	RAM	1G DDR3 (2G optional)		
	FLASH	8GB (16GB optional)		
	OS	Android 4.1.1		
	I/O ports	1 x RJ45, 2 x USB 2.0, 1 x USB 1.0, 1 x HDMI out, 1 x earphone, 1 x SD card slot, 1 x DC Jack, 1 x 3G SIM card slot		
	Front Camera(Optional)	2,000,000 pixels		
Video	1080P Video support	AVI,H.263,H.264,VC-1,MPEG-2,MPEG-4, DIVD/DIVX, Real8/9/10, RM,RMVB ,PMP,FLV, MP4,M4V,VOB, WMV,3GP,MKV,ASF, 3G2M4V, MJPEG,RV10		
Audio	Built-in Speakers	3W X 2	5W X 2	5W X 2
	Audio codes	MP1,MP2,MP3,WMA,OGG,AAC,M4A,FLAC,APE,AMR,RA,WAV		
Buttons Connectivity	Quick control buttons	Home, volume+/-, brightness +/-		
	Wired	Ethernet 10/100		
	Wireless	Built-in WIFI 802.11b/g/n		
Power	3G(Optional)	3G wirelss data modem		
	Power Input	DC 12V, 3.3A	DC 12V, 3.3A	DC 12V, 3.3A
	Consumption	30W	40W	50W
Software	X-FILER	Auto boot start and full screen display of any appointed app without any menu bar; Or auto playback SD card media files		
General Info		Auto power on/off / Motion sensor function / Data log function		
	Case Material	Powder-coated metal case with aluminum border		
	Dimension	397 x 248 x 47mm	457x282x47mm	545*338*55mm
	Weight	3.22KGS	4.89KGS	6.875KGS
	Vesa	100 x 100mm	100 x 100mm	100 x 100mm
	Operation Temp	(0 -- 50 degree)		
Storage Temp	(-15 -- 65 degree)			



Large-sized CDSPAD

Panel	Screen Size	32"	42"	47"	55"
	Touch panel type	IR multi touch panel			
	Active Area(mm)	344.16 x 193.59	930.24 x 523.26	1039.68 x 584.82	1209.6 x 680.4
	Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
	Pixel pitch(mm)	0.36375 x 0.36375	0.4845 x 0.4845	0.5414 x 0.5414	0.630 x 0.630
	Brightness	500cd/m ²	360cd/m ²	360cd/m ²	400cd/m ²
	Contrast Ratio	(1300:1)	(1400:1)	(1400:1)	(1600:1)
	Aspect Ratio	(16:9)	(16:9)	(16:9)	(16:9)
	Viewing Angle	89/89/89/89	89/89/89/89	89/89/89/89	89/89/89/89
Hardware & OS	CPU	RK3066 Dual Core			
	Main Frequency	Cortex-A9 Up to 1.6GHz			
	GPU	Quad-Core 2D/3D OpenGL ES2.0(AMD Z430)/OpenVG1.1			
	RAM	1G DDR3 (2G option)			
	FLASH	8GB (16GB optional)			
	OS	Android 4.1.1			
	I/O ports	1 x RJ45, 2 x USB 2.0, 1 x USB 1.0, 1 x HDMI out, 1 x SD card slot, 1 x 3G Sim card slot			
	Front Camera(Optional)	2,000,000 pixels			
Video	1080P Video support	AVI,H.263,H.264,VC-1,MPEG-2,MPEG-4, DIVD/DIVX, Real8/9/10, RM,RMVB ,PMP,FLV, MP4,M4V,VOB, WMV,3GP,MKV,ASF, 3G2M4V, MJPEG,RV10			
Audio	Built-in Speakers	8W X 2	10W X 2	10W X 2	10W X 2
	Audio codes	MP1,MP2,MP3,WMA,OGG,AAC,M4A,FLAC,APE,AMR,RA,WAV			
Connectivity	Wired	Ethernet 10/100			
	Wireless	Built-in WIFI 802.11b/g/n			
	3G(Optional)	3G wireless data modem			
Power	Power Input	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	Consumption	80W	100W	120W	120W
Software	X-FILER	Auto boot start and full screen display of any appointed app without any menu bar; Or auto playback SD card media files			
General Info	Case	Powder-coated metal case with aluminum border			
	Dimension	805 x 500 x 73mm	1038x631x73mm	1147X692X73mm	1320X790X73mm
	Weight	19.6kgs	27.5kgs	32.85kgs	44.65kgs
	Vesa	200 x 200mm	400 x 300mm	400 x 400mm	400 x 600mm
	Operation Temp	(0 -- 50 degree)			
	Storage Temp	(-15 -- 65 degree)			



Android Kiosk

Panel	Screen Size	32"	42"	47"	55"
	Touch panel type	IR multi touch panel			
	Active Area(mm)	344.16 x 193.59	930.24 x 523.26	1039.68 x 584.82	1209.6 x 680.4
	Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
	Pixel pitch(mm)	0.36375 x 0.36375	0.4845 x 0.4845	0.5414 x 0.5414	0.630 x 0.630
	Brightness	500cd/m ²	360cd/m ²	360cd/m ²	400cd/m ²
	Contrast Ratio	(1300:1)	(1400:1)	(1400:1)	(1600:1)
	Aspect Ratio	(16:9)	(16:9)	(16:9)	(16:9)
	Viewing Angle	89/89/89/89	89/89/89/89	89/89/89/89	89/89/89/89
Hardware & OS	CPU	RK3066 Dual Core			
	Main Frequency	Cortex-A9 Up to 1.6GHz			
	GPU	Quad-Core 2D/3D OpenGL ES2.0(AMD Z430)/OpenVG1.1			
	RAM	1G DDR3 (2GB option)			
	FLASH	8GB (16GB option)			
	OS	Android 4.1.1			
	I/O ports	1 x RJ45, 2 x USB 2.0, 1 x USB 1.0, 1 x HDMI out, 1 x SD card slot, 1 x 3G SIM card			
	Front Camera(Optional)	2,000,000 pixels			
Video	1080P Video support	AVI,H.263,H.264,VC-1,MPEG-2,MPEG-4, DIVD/DIVX, Real8/9/10, RM,RMVB ,PMP,FLV, MP4,M4V,VOB, WMV,3GP,MKV,ASF, 3G2M4V, MJPEG,RV10			
Audio	Built-in Speakers	8W X 2	10W X 2	10W X 2	10W X 2
	Audio codes	MP1,MP2,MP3,WMA,OGG,AAC,M4A,FLAC,APE,AMR,RA,WAV			
Buttons Connectivity	Quick control buttons	Home, volume+/-, brightness +/-			
	Wired	Ethernet 10/100			
	Wireless	Built-in WIFI 802.11b/g/n			
Power	3G(Optional)	3G wireless data modem			
	Power Input	AC100-240V	AC100-240V	AC100-240V	AC100-240V
	Consumption	80W	100W	120W	120W
Software	X-FILER	Auto boot start and full screen display of any appointed app without any menu bar; Or auto playback SD card media files			
General Info		Auto power on/off / Motion sensor function / Data log function			
	Dimension(w/o wheels)	1700 x 550 x 80mm	1810*640*80mm	1875*715*80mm	1890*808.4*80mm
	Weight	19.6kgs	63.15KG	63.75KG	44.65kgs
	Operation Temp	(0 -- 50 degree)			
	Storage Temp	(-15 -- 65 degree)			