User's Manual
Rev.1.0

KCL
POS / AD POP / VAN

AD-POP wireless

http://www.kcladpop.com/

Table of Contents

1. Introduction

1.1. outline

The ADPOP is terminal equipment for serving the ideal payment solution by NFC, WiFi, QR code, advertisement, mobile coupon and points. Mobile banking system, Retail, point of sales, other industrial area are required to this terminal equipment.

The general features of ADPOP are as follows:

Item	Function	Remark
Main Processor	Clock 800 MHz	Cortex-A8
	Video	Full HD (1080p) Encoding / Decodeing
		2D / 3D Graphic Engine (support OpenGL-ES 2.0/OpenVG 1.0)
	Audio decoding	MP3 / AAC / AAC+ / WMA / OGG / BSAC / RA / MUSICAM / AC3 / DTS
	Audio encoding	MP3 / AAC / AAC+
	Video decoding	MPEG2 / MPEG4 / H.264 / WMV / RV / Divx 1080p@30fps / 720o
	Video encoding	MPEG4 / H.264 1080p@30fps / 720p
	Display controller	Include OSD function
	LCD module interface	80-type / RGB-type interface for display data output to LCD module
	Memory interface	mobile DDR, DDR2, NAND and NOR
	USB interface	USB2.0 HS compliant DEVICE and HOST interface
Memory Card	SDHC 지원	
AUDIO CODEC	I2S AUDIO CODEC	BTL MONO-OUT
AUDIO AMP	High SNR	Class AB Mono Speaker driver contained
ETHERNET	10/100 Base	Integrated 10/100M transceiver with AUTO-MDIX
Wifi	WLAN 11n USB	IEEE802.11n / Data rates up to 150Mbps
Touch Controller	Capacitive touch sensor	6 channels cap. Sensing / Embedded GreenTouch Engine
Serial	RS-232 DRIVERS	250Kbps Minimum grarenteed data rate
USB to Serial	USB to UART Bridge	USB Specification 2.0 compliant full-speed (12Mbps)
TFT-LCD	7" color TFT-LCD	800 * 480 resolution / R.G.B interface / 320cd/m²
Touch panel	4-wire type	
NFC	Transmission module	- Reader/Writer mode supporting ISO/IEC 14443A/MIFARE and FeliCa. - Reader/Writer mode supporting ISO/IEC 14443B - Card Operation mode supporting ISO/IEC 14443A/MIFARE and FeliCa. - NFCIP-1 mode
CAMERA	3 Mpixel CMOS	MIPI Interface / 1/5" hynix sensor
Power	5V / 2A	SMPS

1.2. Operating Precautions

Please follow the precautions below to enjoy and maintain the full performance of the terminal equipment.

1.2.1 Using the ADPOP

● Be careful not to drop or bump the ADPOP on a hard surface.
● Do not install the ADPOP in direct sunlight or such areas. Suitable environment for the use of the equipment is as follows:
- Operating temperature :-10℃ to 50℃
- Relative humidity : 15% to 80%
● Do not install the ADPOP near devices that generate strong electromagnetic fields such as a copy machine.
● Do not disassemble the product and do not use alcohol, thinner or benzene to clean the surface of the product.
● Switch the POWER OFF when not in use.
● Please do not use the product when driving or walking in a street, otherwise it may cause a car accident.
● To avoid dropping or strong impact to the product, do not let the ADPOP be shaken violently, otherwise, it may cause damage to the screen or display incorrectly.

2. Installation & usage

2.1. ADPOP & Accessories

Your ADPOP box should include these items. If any items are damaged or missing, please contact your dealer for assistance.

ADPOP

Battery charger adaptor
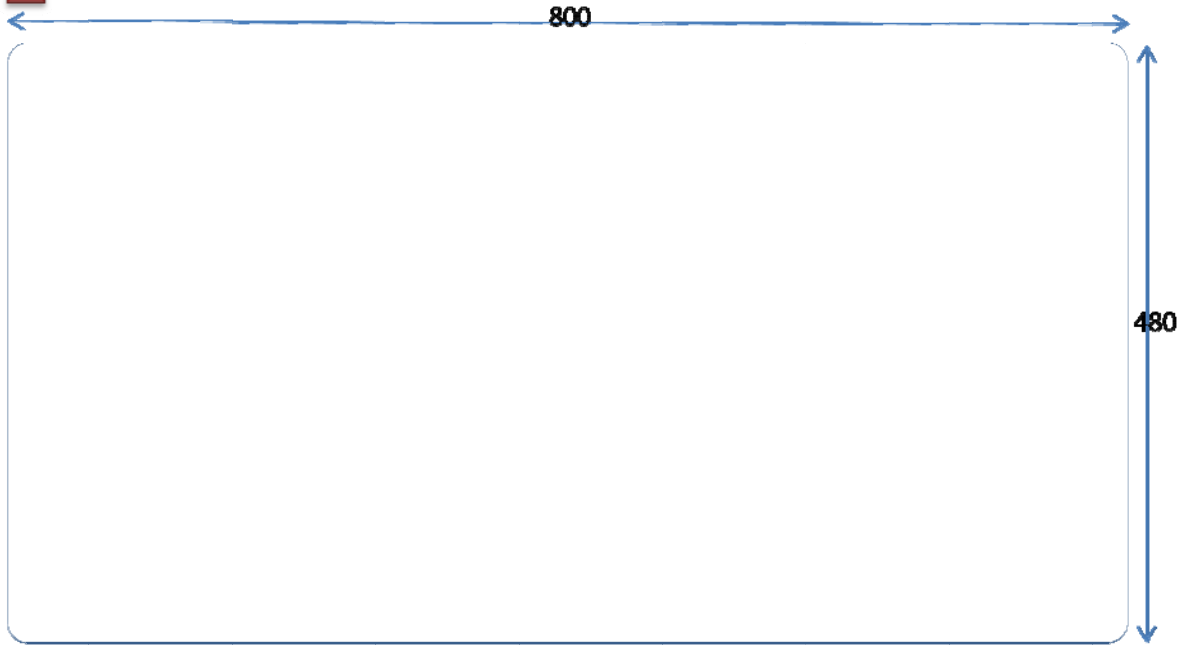
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2.2. ADPOP Features

▶ Part Name

TFT-LCD Touch Screen
7 inch / Digital
Signature PAD

RFID/NFC
Card Reader

Camera

Ethernet

USB to Serial

Power
Connection

WiFi module

2.3. Dimensions

1

800

480

2.4 Power supply

ADPOP is the product that battery is incorporated in rear part of product, therefore users can separate battery from rear part.
If the performance of battery will be slow down or not working, please contact with A/S Center.

For recharging the battery pack,　insert　the Battery Charger to the charge connector of the ADPOP.

[Battery Charging Status]

LED	Charge Status	Charge Time
Red LED On (Charger)	Charging	4 hours (Full Charging)
Green LED On (Charger)	Fully Charged	
Red LED Blinking(Product)	Need to be charged	

NOTE :

● The battery is consumable parts and when purchasing, compared to the use hour is gradually decreases. (Warranty 6 month)
● If the ADPOP is not used for a long time, unplug the power cord from the ADPOP and outlet.
● The recharging time depends on the voltage level and ambient temperature of the battery. Normally, if takes about 3 to 4 hours to recharge a battery pack.
● You must use only the supplied adapter.

2.5 LCD display

2.5.1   LCD display

Power	Display status of POWER On OR Off . if LCD flick on and off, need to be charged.
Link	Display status of connection with other device.
Card	If Display is On, NFC card reading is available.
Sign	If Display is On, signing available

2.5.2 Button

[Light]	Display Light setting
[Volume]	Volume setting
Credit Company setting	Choose Credit Company for payment

2.6 Self Test

2.6.1 Test of Card Reading Function

In pressing button Card selection and Turn on the power, it will be converted to test acceptability of card processing. After card reading, the result of test will be printed.

3. Service Center Information

Korea Creadic Life Co., Ltd.

Address : 3rd floor, Kolon building, 9-1, Dangsandong 1-ga, Yeongdeungpogu,

Seoul, Korea 150-800

Tel : 82-2-2676-4238

FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is con-nected.

• Consult the dealer or an experienced radio/TV technician for help.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT Safety Instruction:

CAUTION

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside, refer servicing to qualified personnel.

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of sock.

This symbol, wherever it appears, alerts you to the important operating and maintenance instructions in the accompanying literature. Please read the manual.

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this equipment near water.

6) Do not using near any heat sources such as radiators, heat resisters, stove, or other equipment that produce heat.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS