

User Manual

Version 1.0

For

Android Advertising Media Player

And

Set-Top-Box

This user manual pertains to the Android based Advertising Media Player and Android based Advertising Set-Top-Box;

The distance between product and user should no less than 20cm

Model	Model Description
DT101-ASA-800	10.1" Android Media Player w/ Non-Touch 800 LCD
DT101-ACA-800	10.1" Android Media Player w/ Capacitive Touch 800 LCD
DT133-ASA-720	13.3" Android Media Player w/ Non-Touch 720 LCD
DT133-ACA-720	13.3" Android Media Player w/ Capacitive Touch 720 LCD
DT156-ASA-720	15.6" Android Media Player w/ Non-Touch 720 LCD
DT156-ACA-720	15.6" Android Media Player w/ Capacitive Touch 720 LCD
DT173-ASA-1080	17.3" Android Media Player w/ Non-Touch 1080 LCD
DT173-ACA-1080	17.3" Android Media Player w/ Capacitive Touch 1080 LCD
DT185-ASA-720	18.5" Android Media Player w/ Non-Touch 720 LCD
DT185-ACA-720	18.5" Android Media Player w/ Capacitive Touch 720 LCD
DT215-ASA-1080	21.5" Android Media Player w/ Non-Touch 1080 LCD
DT215-ACA-1080	21.5" Android Media Player w/ Capacitive Touch 1080 LCD
DK-13001	Mini-InFinity Android Media Player with Touch LCD
DK-13002	Standard-InFinity Android Media Player with Non-Touch LCD
DK-13003	Mini-InFinity android Media Player with Non-Touch LCD
InVision A-1080	Invision Android Advertising Set-Top-Box

Description : The DT###-A##-#### is an Android OS based Advertising Media Player that will allow content designs a much greater deal of flexibility when designing advertising displays for the retail market. The DT###- A##-#### will interconnect with several modules that will allow several different functions such as, but not limited to Wifi, Wifi-Hotspot, DUCO RF Module, Digital Camera, and External Data Storage and Updating.

The housing design will be slim yet robust to allow this unit to function in a retail environment without becoming damaged from continual use/constant interaction.

Specifications:

- LCD Screen for Media Player
 - 800 x 480 resolution or greater
 - Optional resistive touch screen
 - Optional capacitive touch screen
- HDMI for Set-Top-Box
 - 1920x1080 resolution output
 - 3D output function
 - CEC control function
- Metal Housing
 - Similar to Common media player metal housing
 - Must be robust for retail environment and fasten to the frame which can't be moved
 - Will have the following connectors;
 - 2pcs USB-A standard USB receptacle
 - 1pc USB-A mini USB receptacle
 - 1pc 5.5mm female barrel jack - for +12V power input (Battery or AC)
 - 1pc RJ45 jack - for hardwired network compatibility
 - 1pc 3.5mm headphone jack - for 85mW audio
 - 2pcs DTCN-A-2F - 2-pin female connector for SP1-SP2
 - 1pc SD Card Slot - for SD
 - 10pcs Metal Tact Switch located on back of unit - for Control Panel Functions
(same as 15.6" player) - subject to change
 - 1pc DTCN-A-2F - 2-pin female connector for +5V-
 - 1pc DTCN-A-4F - 4-pin female connector for UART connection
- Processor
 - Android Processor
- Main PCB
 - Will utilize clock to keep time - must be adjustable via setup menu
 - Clock must keep time when media player is OFF.
 - Up to 16GB of internal memory can be installed on the main PCB
 - Applications will be stored on internal memory
 - Videos will be stored on internal memory or SD card
- I/O Ports;
 - Input Only:

- PCI - For Push button
- Control Panel (Located on back, covered)
 - Setup - To enter setup mode
 - Up, Down, Left, Right - For navigation
 - Enter - To accept/enter a highlighted option during setup mode
 - Exit - To exit setup mode
 - Vol+/- - To adjust volume level
 - Bri+/- - To adjust brightness level
- +12V AC - For AC or Battery powered 12V power input
- SD Card - For video storage
- o Output Only:
 - Aux - For pre-amplified headphone audio (80mW)
 - SP1-SP2 - For external amplified audio (2W)
 - +5V- - For +5V constant voltage for accessories
- o Dual Function I/O:
 - USB1-USB2 - For connection to USB devices

Optional USB Modules

- WiFi Dongle (HW-3F03) - To allow WiFi access and to forward received messages to devices that may be outside of the WiFi hotspot broadcast radius; to allow the media player to be transformed into a WiFi hotspot allowing users and devices to connect directly to the media player for various purposes.
- DUCO RF Module (DTEX-PS-M)- To allow the media player to utilize the product selector function.
- Camera Module (USB type, optional)- To allow the connection of a digital input device for facial recognition, augmented reality, demographic tracking, or other possible functions.
- External Storage/Update - This module will be a standard USB flash drive, this device can be used either as external storage, or to update/add applications or update the device firmware. USB external storage will override SD card internal storage
- Barcode scanner - To allow the media player to utilize the standard barcode scanner

Functions & Features:

This media player will function as an Android OS based device. It will utilize several different applications that will allow several different functions depending on the modules connected to the device.

- Modified Android OS

- o See DUCO (Android Based Media Player) Custom Android 4.1 OS Specifications RX_X.pdf for reference.

Note: OS will be 3-tiered

Application Level - In the application a preset application will play constantly. A standard level user will not be able to access any level other than the application level.

CSR Level - In this level a CSR will be able to perform various actions such as viewing metrics, setting up the Wi-Fi setting, and updating both the internal and external memory. This level will have limited options so that a CSR does not have the ability to disable the unit accidentally.

Administrative Level - This level will completely unlock the unit and allow it to be used as a standard tablet.

Most production units will utilize custom applications;

- Custom Applications
 - o The custom applications will allow interaction between the optional USB modules
 - The custom applications will be either designed by the marketer of the media player or by the manufacturing factory
 - All custom applications must be ran from internal memory
- **Level 1 - Application Level**
 - o The unit will spend 99.99% of the time in the application level.
 - o When unit is powered ON, unit will automatically enter the application level.
 - o This will be the level presented to users in a retail environment.
 - o On this level a default application (selected in the CSR or Administrator levels) will be constantly displayed on the screen. A retail level user will not be able to exit the application on this level.
 - All system keys and commands (home button, back button, time settings) will be hidden and inaccessible on this level.
 - o Sleep Mode:
 - The unit will not go to sleep mode from inactivity on this level.
 - o Reset Function:
 - The unit will automatically reset itself at a specified time which can be set by the CSR or administrator on this level.

- By default the automatic reset time will be 2:00am
- When the unit resets, it will completely power down itself, then power itself back up

- **Level 2 - CSR Level**

- o The unit will enter the CSR level very infrequently.
- o This level will be accessible only through pressing a sequence of buttons located on the back panel of the unit.
 - Pressing the STOP button followed by the SETUP button on the back of the unit will allow the user to enter the CSR level of the software.
 - Pressing any other combinations of buttons will not enter the CSR level.
- o Setup Menu:
 - The CSR level will not give users full access to the different settings of the unit.
 Instead it will give the user access to a menu setup that will allow limited changes to select settings.
 - From this menu, the CSR user will be able to make the following changes;
 - Change the current default application.
 - Install a new application to the unit.
 - Update/Replace the videos/images installed on the internal memory.
 - Change network settings - both wireless and wired.
 - Change the current time/date.
 - Change/Turn OFF the unit reset time.
 - Reset the unit to the default settings.
 - See the software version of the unit.
 - Pressing the EXIT button on the unit will exit the setup menu and return the unit to the application level.
- o Timeout Function:
 - This level will have an inactivity timeout period of 60-seconds to prevent unauthorized access in the event that an in-store CSR leaves the display without exiting the setup menu.
 After the 60-second timeout the unit will return to the application level.

o **Level 3 - Administrator Level**

- o The unit will enter the administrator level only a few times throughout the life of the unit.
- o This level will be accessible only if the user attaches a security dongle to the unit.
 - When the security dongle is removed, the unit will exit the administrator level and return immediately to the application level.
- o This level will be the full standard Android OS, it will allow the user to make all the adjustments that are available to a standard Android based unit, such as but not limited to removing applications, updating the OS via PC/laptop with USB connection, updating all available settings, etc...

o **SETUP MENU** - Accessible in the CSR level.

- o The setup menu will offer limited access to the different settings/functions available on the unit.
- o The different settings/functions will be as follows;
 - Application List
 - This will display a list of the applications currently installed on the unit.
 - Each application will have a checkbox to the right side of the screen, this will allow the user to select the default application that plays on the application level. Checking one application will uncheck the previously selected application.
 - Install New Application
 - This option will allow the user to install a new application on to the unit.
 - From this location, the user will be able to select the application (.apk) software that is located on either the SD card or USB flash drive and install the software.
 - Before installing the unit will ask the user for confirmation to install the new software.
 - Update Media Content
 - This option will allow the user to load content from an SD card or USB flash drive onto the unit easily.
 - When selected, the unit will display a list of all content that is available on the SD card and/or USB flash drive with a checkbox to the right of

each item. By default all items will be checked.

- The checkbox will show whether a file will be transferred or not.
- When a "Transfer Now" button is touched, a confirmation window will appear warning the user that the current files installed on the player are about to be overwritten. If the user selects yes, the items with the checkbox checked will be transferred onto the internal memory, overwriting the content that is currently stored there. If the user selects no, the unit will return to the Update/Replace Media Content option.

▪ Network Settings

- This option is the same as the current network setup options on the unit, it will allow the user to search for a wireless network, enter a password, select the encryption type, etc...

▪ Date/Time

- This option will allow the user to manually set the current date/time if necessary.
- If the unit is connected to the network, the unit should automatically pull the current date/time from the internet.
- The option to set the reset time should also be available under this setting.

▪ Default Settings

- This function will restore the settings to the default settings.
- Before performing this option, the unit will need to display a warning message letting the user know that all the units settings will be reset to the manufacturer's default settings. If yes is selected the unit will set all the settings to default and return to the setup menu, if no is selected the unit will return to the setup menu without changing any settings.

▪ About

- This will be the same as the "About Tablet" setting on the current android based units. It will display the media player model #, android version, last update date, etc...

Declaration

All products do have internal batteries, and powered only by external AC power adapter or 12 V Batteries.

All advertising Media Players have 4 wall mounting bracket location hole on the back of the enclosure, the product only can be used as wall mounted and can not be used as portable product. The distance between user and products must be no less than 20cm.