

## Model 554A USBPro™ Cash Drawer User's Guide

### Interface Description

- The cash drawer is a bus-powered, HID-class USB peripheral.
- Compatible with all operating systems that recognize USB HID-Class device peripherals including Windows XP/7, Mac OSX 10.5+, Linux.
- Conforms to USB 2.0 standard for HID Class, Low-Speed, High-Power Devices.
- Provides proper operation when connected to a USB 3.0 port.
- A 6ft/2m USB-A / USB-B cable is included.
- Drivers and Test Applications are available.
  - o Windows native DLL, OPOS, JavaPOS
- Contact APG Technical Services and Support as needed.

### Installation

- Connect the cash drawer to the host computer or a powered hub connected to the host computer.
- Once connected and enumerated with the host PC, a blinking indicator light is visible inside the cash drawer.
- The host PC will display the cash drawer as a 'HID-compliant device' in the Windows Device Manager or Mac System Profiler.

### Cash Drawer Test - Windows

- Insert the CDROM included with the cash drawer.
- Navigate to the \...\USBPro 554A \ Drawer Tester subfolder. Double-click **usbtester.exe** to open the drawer. Note that the 'usbtester.exe' program required the USBQFDNETSUSN.dll. For proper operation, these files must be co-located (e.g. in the same folder).

### Test – Mac OSX

- Obtain the APG single drawer USB test application [APG USB554 MacOS SDK v1xx]
- Extract the application to the Mac that supports the Model 554A USB Cash Drawer.
- Launch the application and select the commands to control and to query the cash drawer.

### Windows Compatibility

- The Model 554A Cash Drawer is compatible with all versions of the Microsoft Windows operating system.

### Windows Power Management

A default configuration of the Win8.1 and Win10 operating systems may attempt to suspend the bus serving the Model 554A USB Cash Drawer if its DLL is not actively running.

Verify the cash drawer is closed prior to closing the DLL serving the Model 554A USB Cash Drawer or change the features of the USB bus monitoring system as described here:

<http://www.cashdrawer.com/apg-model-554a-usb-cash-drawers-windows-8-1/>

## Software Developers Kit - SDK

\*\* After each opening, verify that the user has closed the cash drawer before closing the DLL \*\*

APG provides software developers with several different Windows driver options for the Model 554A USB Cash Drawer including native DLL, OPOS and JavaPOS solutions.

### Communication Notes

- USB VID and PID allocation

07c5	Vendor ID (idVendor)
0500	Product ID (idProduct)

\*\* After each opening, verify that the user has closed the cash drawer before closing the DLL \*\*

Use of the Model 554A USB Cash Drawer requires the proper application a 3-byte feature packet.

0x00 0x01 0x01	Drawer Open  The cash drawer reliably opens every three seconds. Since the drawer is bus-powered, it needs a bit of time to recharge.
0x00 0x00 0x00	Prompts the drawer to return its open/closed status

In the drawer status response, byte 0 contains the drawer status indication:

01	Drawer is open
02	Drawer is closed

The cash drawer's response to open is fast but not instantaneous. We recommend waiting 125mS after drawer kick before status query.

Byte 1 in the status response is the cash drawer's HID number. Each drawer has a HID no. assigned by APG to allow for distinct persistence in a multi-drawer setting. The HID no. is pseudo-random ranging from HEX 01 to HEX FF and is not globally unique – it matches the value printed on the label on the bottom of the cash drawer. If more than one cash drawer is to be connected to the same host, each of those cash drawers must have a distinct HID no.

For additional support, contact APG Cash Drawer Technical Services and Support

<http://cashdrawer.com/support>

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