Programming Example: SDS Oscilloscope save a copy of a screen image via Python/PyVISA

February 26, 2020

Here is a brief code example written in Python 3.4 that uses PyVISA to pull a display image (screenshot) from a SIGLENT SDS oscilloscope via USB
and save it to a drive on the controlling computer.

NOTE: This program saves the picture/display image file to the E: drive, which may or may not exist on the specific computer being used to run the application.

Download Python 3.4, connect a SIGLENT SDS Oscilloscope using a USB cable, get the scope USB VISA address, and run the attached .PY program to save an image of the oscilloscope display. The type of file saved is determined by the instruments setting when the program is run.

You can download the .PY file here: PyVISA SDS Screen Capture

Tested with:

Python 3.4

SDS1102CML+

```
#Example that returns a copy of the displayed image on SIGLENT SDS
#Oscilloscopes via USB and saves to a drive location
#
#Dependencies:
#Python 3.4 32 bit
#PyVisa 1.7
#
#Rev 1: 02262020 JC

import visa
import time # for sleep

def main():
 _rm = visa.ResourceManager()
 sds = _rm.open_resource("USB0::0xF4EC::0xEE3A::SDS1MFCQ3R5086::INSTR") #Replace
with specific USB information from scope
 file_name = "E:\\SCDP.bmp" #Make suere that the drive specified is available on
your computer
 sds.write("SCDP")
 result_str = sds.read_raw()
 f = open(file_name,'wb')
 f.write(result_str)
 f.flush()
```

```
 f.close()
if __name__=='__main__':
 main()
```

North American Headquarters

SIGLENT Technologies NA
6557 Cochran Rd Solon, Ohio 44139
Tel: 440-398-5800
Toll Free:877-515-5551
Fax: 440-399-1211
info@siglent.com
www.siglentamerica.com/

European Sales Offices

SIGLENT TECHNOLOGIES GERMANY GmbH
Staetzlinger Str. 70
86165 Augsburg, Germany
Tel: +49(0)-821-666 0 111 0
Fax: +49(0)-821-666 0 111 22
info-eu@siglent.com
www.siglenteu.com

Asian Headquarters

SIGLENT TECHNOLOGIES CO., LTD.
Blog No.4 & No.5, Antongda Industrial Zone,
3rd Liuxian Road, Bao'an District,
Shenzhen, 518101, China.
Tel:+ 86 755 3661 5186
Fax:+ 86 755 3359 1582
sales@siglent.com
www.siglent.com/ens