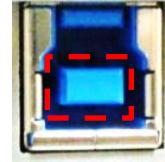


USB3 Dos and Don'ts

Cable description

USB 3.0 cable A end type (male) to B end type (male).

USB3 / USB2 socket SC Series



USB2 section

What length?

The SmartLF SC Series standard cable length is 2m.

Precautions

Do not damage the cable by squashing it under the scanner wheels or its performance may be affected. Poor data flow when high paper speed and high resolution settings are combined can be caused by a physically damaged cable.

Performance

Cable type	Ci 40 / Gx+ scanners MB/s	SC Series scanners MB/s	Maximum length (m)	Recommended length (m)
USB2	24	34	5	2
USB3	N/A	62-72	3	2

Appearance

USB3 cables and sockets conforming to the USB3 standard are usually blue inside.

USB3 computer sockets	USB3 cable terminations Double-height at scanner (B)		USB2 cable terminations Single-height at scanner (B)	
INTERFACE	USB3 A	USB3 B	USB2 A	USB2 B
USB3 COMPUTER	✓		NOT RECOMMENDED	
SC SERIES SCANNER		✓		✓
USB2 COMPUTER	✓		✓	

Computer specification

Colortrac recommend a computer with USB3 as part of its main board. A plug-in PCIe card will work but may not be as fast. A typical computer specification suitable for connecting to the SC Series is:

Processor	AMD A6-3650 APU (2.6GHz, 4 Cores) & AMD Radeon™
Motherboard	ASUS® F1A75-M: FM1 A-SERIES, SATA 6.0GB/s, USB 3.0
Memory	8GB DUAL-DDR3 1333MHz (2 X 4GB)
Hard disk	1TB SATA 6Gb/s HDD, 32MB Cache (7200rpm)

IMPORTANT – Ensure that the SC Series scanner is used with the latest scanner driver and scanner firmware to avoid sensitivity to certain USB3 manufacturer chipsets. Avoid computers that use Etron USB3 chipsets. Cables are easily damaged and can short-circuit internally causing damage to the computer USB interface and the scanner. Always replace USB3 cables if you notice external physical damage even they appear to still work properly.

**Tested USB3 chipsets and driver versions.
Chipset driver versions be no older than listed below.**

AMD

http://support.amd.com/us/gpudownload/windows/Pages/raid_windows.aspx
For motherboards with 700 series or newer AMD chipsets, and includes:
AMD Chipset Drivers
AMD AHCI Driver
AMD USB 3.0 Driver
Revision Number: 12.4
Release date: 25/04/2012

NEC (Renesas Electronics)

http://downloadcenter.intel.com/Detail_Desc.aspx?DwnldID=19880
USB 3.0 Driver
Version: 2.1.28.1
Release Date: 10/04/2012

Texas Instruments

<http://www.drivermanager.com/en/drivers.php?Brand=Texas%20Instruments&Logo=texas-instruments&gclid=CMrNr62l5q8CFY8PfAodZAH02g>
Driver Manager

ASmedia

<http://www.station-drivers.com/page/asmedia.htm>
USB 3.0 driver
Version: 1.14.8.0
Date: 16/03/2012

Fresco Logic

http://www.x-drivers.com/catalog/drivers/usb_2.0_controllers/companies/fresco_logic/models/usb_3.0_host_controller/237111.html
USB 3.0 driver
Version: 3.5.24.0
Date: 07/01/2012
