

Technical Memo

Digital Check Corporation

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From: Manager Technical Support

RE: TS215 / TS230 / TS4120 – Pre Installation Checklist

This memo is used for important planning information for Digital Check Dealers and Resellers who will be considering supporting the TS215, TS230 and TS4120 models under their current or future imaging applications. **The TS215, TS230 and TS4120 are only supported under W2000, XP, & Vista, 32 bit.**

- **TS215 –Is Part Number 149000-02 (or -01)-** (-02 is with Ink Jet, -01 is non-Ink Jet).
- **TS230 –Is Part Number 148000-22 (or -21)- Model 35** (-22 is with Ink Jet, -21 is non-Ink Jet).
 - **148000-02 (or -01)- Model 65** (-02 is with Ink Jet, -01 is non-Ink Jet).
 - **148000-12 (or -11)- Model 100** (-12 is with Ink Jet, -11 is non-Ink Jet).
- **TS4120 –Is Part Number 151000-12 (or -11)- Original Feeder** (-12 is with Ink Jet, -11 is non-Ink Jet).
 - **151000-22 (or -21) – New feeder** (-22 is with Ink Jet, -21 is non-Ink Jet).

The part number is listed on the bottom label just above the serial number.

- **TS215 Model-** The TS215 is a single document at a time feeder. Each new TS215 ships with a separate power supply with six foot cords, one USB 2.0 six foot cable and one HP C6602A ink jet cartridge (if the endorsement option was ordered).
- **TS230 Model 65 /100** - The TS230 model 65 and model 100 run up to 65 DPM and 100 DPM respectively. Each new TS230 ships with a separate power supply with six foot cords, one USB 2.0 six foot cable and one HP C6602A ink jet cartridge (if the endorsement option was ordered). **The bottom label will indicate whether it is a model 35, 65 or 100.**
- **TS4120 Model** - The TS4120 has an entry pocket that holds up to 100 documents and two selectable exit pockets that hold upto80 / 100 documents each. Each new TS4120 ships with a separate power supply with six foot cords, one USB 2.0 six foot cable and one HP C6602A ink jet cartridge (if the endorsement option was ordered). **The bottom label will indicate whether it is a model 12 or 22.**
- **API Levels Required-**
 - Recommended API & firmware levels:
 - API V8.54 or later
 - TS2dll.dll V4.4.3 or later
 - TS230Firmware.bin V1.0.3.0 (319,384 bytes) or later
 - TS440Firmware.bin V1.0.3.0 (319,560 bytes) or later
 - The TS215, TS230 and TS4120 also require the use of the USB Certified or digitally signed driver. Use the USB driver utility from the Digital Check web site to install the proper drivers, v2.3 or V2.5 is recommended.
- **API Comments & Recommendations-**
 - The firmware is loaded from the PC each time the device is powered on. The firmware file name (TS230firmware.bin or TS440Firmware.bin) does not change when new firmware is released. The typical location that the firmware file is located is in the Windows/System32/Drivers folder. You need to select whether that standard location or a custom location is to be used for your implementation. An alternate location can be configured in the buicscan.ini file.
 - The new Scanbatch option in the INI file will allow for running these scanners near rated speed. Check with API for any questions related to the application.

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- Review the 'No-Stop' double feed logic with your application to determine what test to use for actual error conditions. This allows thicker documents to pass through, capturing the MICR data and images and launching the next document without stopping.
 - Use the recommended error text whenever one of the five typical errors is encountered. Check the API documentation for 212, 216, 217, 219, 220 and 553 error codes.
 - Review how frequent the buic status or start scan requests are made. This can affect the timing of the firmware download after a power off condition. A parameter in the buicscan.ini file allows for the scanner to delay sending back the scanner ready status to allow 5 seconds for the scanner to be ready. This value is configurable. When using USB 1.1, allow 30 seconds.
 - Running any USB scanner units on USB 1.1 interfaces requires setting the Image Wait=500 INI file parameter to 3500 to allow enough time to send over the full images.
 - Review your procedures for updating firmware in the future. Since the firmware file name is always the same, use the byte size to determine the level and document where the firmware file is normally loaded to be sure the proper file is getting replaced.
- Use the ScanLite test program, available from the web site, to initially test the scanner for proper operation.
 - The LED light sequence is different then the TS220E. The right LED comes on and shows RED when power is first applied.
 - The right LED turns GREEN when an application acquires it.
 - The left LED is only to indicate the presence of a document in the entry pocket.
 - **Testing the Application with the scanner and New or Updated API Files-**
 - Be sure to test all aspects of the application using the scanner. This includes the normal feeding, image quality, MICR accuracy, throughput and error display and recovery.
 - Typical throughput is 20 to 30 DPM with the TS215 and 60 to 62 DPM / 85 to 95 DPM w/ USB 2.0 with the models 65 and 100 respectively. The TS4120 can vary from 40 to over 100 dpm. If not running in Scanbatch mode, expect the speeds to be around 45 to 48 DPM. The same is true for running a complex versus simple endorsement. A complex endorsement is sending down a new print string for each document. A simple endorsement can be sending down one print string which is used on every documents or the same print string that gets a number in the string incremented for each document. Sorting can also slow down the throughput.
 - **Shipment Notification Procedure-**
 - Set up a shipment notification process within your organization that Digital Check can send out shipping notifications to alert the dealer's reps when to expect shipments so testing and training can be coordinated.
 - **Installation or Test Questions-**
 - **Contact Arlan Converse / Dustin Ward at 847-446-2285**