

Technical Service Bulletin

TSB-0009 Rev. A STAR Software Update Instructions

NOTE: This technical service bulletin only applies to STAR analyzers manufactured after March 31, 2013.

A new version of the STAR operating software is now available. Please follow the installation procedure below to install the new software on your analyzer.

In order to update the STAR analyzer, the software file must first be uncompressed. NOTE: In order to follow the procedure below, Winzip software or 7-Zip software MUST be installed on the PC. If you have determined that Winzip software or 7-Zip software is not installed on the PC, they can be freely downloaded at the following URL's:

http://www.winzip.com/ - Winzip software website

http://7-zip.org - 7-Zip software website

1. Uncompressing, Copying and Installation Instructions using Winzip Software

- A. Download the file labeled "qbcruntime.zip" to the desktop of your PC
- B. Right click the file and select "Extract All..."



C. The Extraction Wizard dialog box will appear. Click "Next >"



D. Note the location where the file will be extracted.



- E. Click "Next >"
- F. The files will be extracted into a folder called ".qbcruntime"

Extraction Wizard	
Extraction Complete Files have been suc	ccessfully extracted from the ZIP archive.
	Files have been successfully extracted to the following directory: C:\Documents and Settings\rsc\Desktop\ To see your extracted files, check the box below: I show extracted files Press finish to continue.
	< Back Finish Cancel

- G. Click "Finish"
- H. Using the USB drive that was shipped with the analyzer, insert it into your computer.
- I. Copy the ".qbcruntime" folder to the USB drive. NOTE: Copy the entire folder.
- J. After the folder has been successfully copied to the USB drive, eject the drive. DO NOT re move the USB drive without following the correct ejection process.
- K. Ensure that the STAR analyzer is powered off.
- L. Insert the USB drive into one of the available USB ports on the back of the STAR analyzer.
- M. Power on the STAR analyzer. The upgrade will automatically start.
- N. Once the software upgrade is complete, the USB drive may be removed from the USB port.
- O. Review the printout to confirm that the correct software version was successfully installed (see example below).
- P. The STAR analyzer is now ready for operation.

QBC ST/R STAR Analytical QC Results						
Date: NOV 05, 20	014	Time	: 15:33:37			
Software Version	: 2	014091	1 (7.01)			
Software Version Instrument S/N:	6	251400	29			
	evel	1				
Hematocrit	=	37.9	%			
Hemoglobin	=	12.9	g/dL			
MCHC	=	34.0	g/dL			
Total WBC	=	5.7	×109/L			
Granulocytes	=		×109/L			
% GranuLocytes Lymphs+Monos	=	47	% x109/L			
% Lymphs+Monos		5.0	%			
Platelets	=	100	x10º/L			
	evel	2				
Hematocrit	=	45.9	%			
HemogLobin	=	15.6	g/dL			
MCHC	=	34.0	g/dL			
Total WBC		10.6	x109/L			
Granulocytes	=	6.5	×109/L			
% Granulocytes	=	61	%			
Lymphs+Monos % Lymphs+Monos	-	4.1	x10º/L %			
Platelets	=	360	×109/L			
			N10 / L			
	evel	3 66,1	0.			
Hematocrit Hemoglobin	=	21.7	% g/dL			
MCHC	=	32.8	g/dL			
Total WBC	=	53.5	x109/L			
Granulocytes	=	31.3	×109/L			
% Granulocytes	=	59	%			
Lymphs+Monos	-	22.2	x109/L			
% Lymphs+Monos	=	41	%			
Platelets		647	x109/L			

2. Uncompressing, Copying and Installation Instructions using Winzip Software

- A. Download the file labeled ".qbcruntime.wim" to the desktop of your PC
- B. Right click the file and mouse over 7-Zip. When 7-Zip is highlight, select "Extract files...".

Open	
7-Zip 🕨 🕨	Open archive
Send To 🕨 🕨	Extract files
Jenu to 🗸	Extract Here
Cut	Extract to ".qbcruntime\"
Сору	Test archive
Create Shortcut	Add to archive
	Compress and email
Delete	Add to ".qbcruntime.wim.7z"
Rename	Compress to ".qbcruntime.wim.7z" and email
Properties	Add to ".qbcruntime.wim.zip"
	Compress to ".qbcruntime.wim.zip" and email

C. The Extract dialog box will open. Save the file to your desktop by clicking "OK".

📴 Extract	
Extract to: C:\Documents and Settings\rsc\Desktop\	
Path mode:	Password
Full pathnames 🛛 🗸	
Overwrite mode:	Show Password
Ask before overwrite	
OK	Cancel Help

- D. The files will be extracted into a folder called ".qbcruntime"
- E. Using the USB drive that was shipped with the analyzer, insert it into your computer.
- F. Copy the ".qbcruntime" folder to the USB drive. NOTE: Copy the entire folder.
- G. After the folder has been successfully copied to the USB drive, eject the drive. DO NOT remove the USB drive without following the correct ejection process.
- H. Ensure that the STAR analyzer is powered off.
- I. Insert the USB drive into one of the available USB ports on the back of the STAR analyzer.
- J. Power on the STAR analyzer. The upgrade will automatically start.
- K. Once the software upgrade is complete, the USB drive may be removed from the USB port.
- L. Review the printout to confirm that the correct software version was successfully installed (see example below).
- M The STAR analyzer is now ready for operation.

OPC	C1	AD				
QBC						
STAR Analyti	cal	QC Re	sults			
Date: NOV 05, 20	14	Time	: 15:33:37			
Software Version	: 20	014091	1 7.01			
Instrument S/N:	6	251400	29			
Le	vel	1				
Hematocrit	=	37.9	%			
HemogLobin	=	12.9	g/dL			
MCHC	=	34.0	g/dL			
Total WBC	=	5 7	x10º/L			
Granulocytes	=	5.7	x10°/L			
% GranuLocytes	=	47	%			
Lymphs +Monos		3.0	x109/L			
	-	5.0	%10-7L			
% Lymphs+Monos	-					
Platelets	-	100	x109/L			
1.2		0				
	vel	2 45.9	9.			
Hematocrit	=		%			
Hemoglobin	=	15.6	g/dL			
MCHC	=	34.0	g/dL			
Total WBC		10.6	x109/L			
Granulocytes	=	6.5	×109/L			
% Granulocytes	==	61	%			
Lymphs+Monos		4.1	×109/L			
% Lymphs+Monos	=	39	%			
Platelets	=	360	×109/L			
	vel					
Hematocrit	=	66.1	%			
HemogLobin	=	21.7	g/dL			
MCHC	=	32.8	g/dL			
Total WBC	=	53.5	x109/L			
Granulocytes	=	31.3	×109/L			
% Granulocytes	=	59	%			
Lymphs+Monos	-	22.2	x109/L			
% Lymphs+Monos		41	%			
Platelets		647	x109/L			
STAR Analytical QC: Passed						