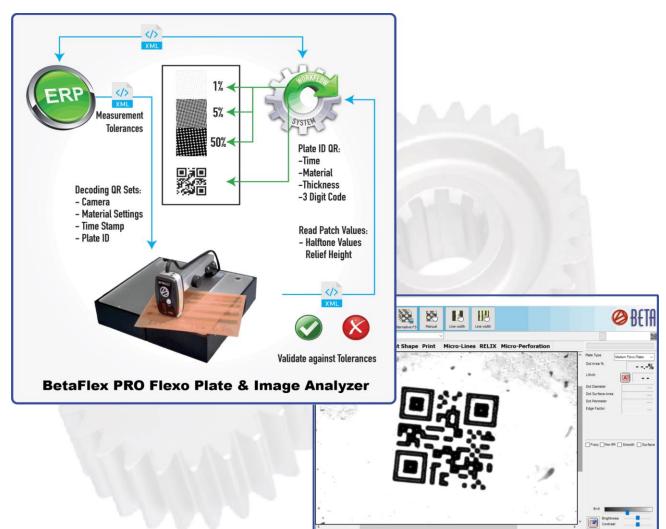
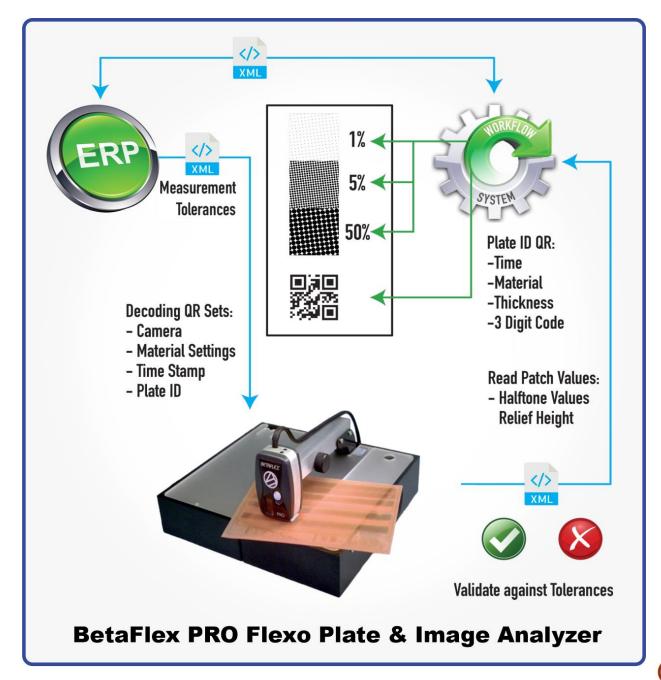
# Betaflex Pro Workflow Automation

### MICRO QR CODE RECOGNITION & RELATIONAL DATABASE



G:255 B:255 X:1000 Y:629











## Betaflex Pro Workflow Automation

#### **MICRO QR CODE RECOGNITION & RELATIONAL DATABASE**

The NEW BETAFLEX PRO WORKFLOW AUTOMATION utilizes a micro QR Code and full relational database to track the photopolymer sheet through imaging, processing, and printing.

Working in conjunction with the ESKO Automation Engine, the QR Code is automatically generated and imaged on the mask. Processing parameters are then automatically set when the code is read at the plate processor. This eliminates the possibility of operator error when keying in the plate exposure and processing settings.

The micro QR Code on the processed plate is automatically recognized by the new BetaFlex PRO software, setting the measurement parameters, recording the measured results of dot area, dot structure, plate thickness, and relief. Errors in configuration of the BetaFlex PRO due to operator error are now eliminated.

A report is generated and written to the database, linking the plate measurements with the customer and job

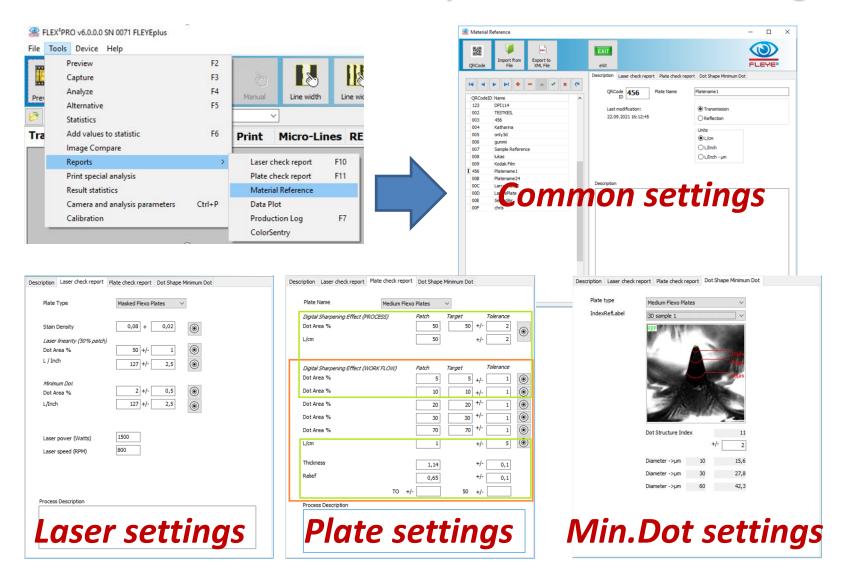
When the plate is mounted and printed, the micro QR Code can then be measured on the finished product, closing the loop on the process.

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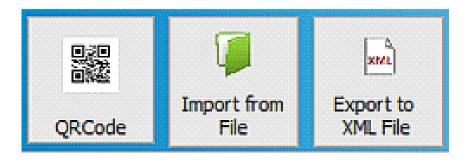
The Quality Control Company

### **Common Database for Reports and Production Logs**





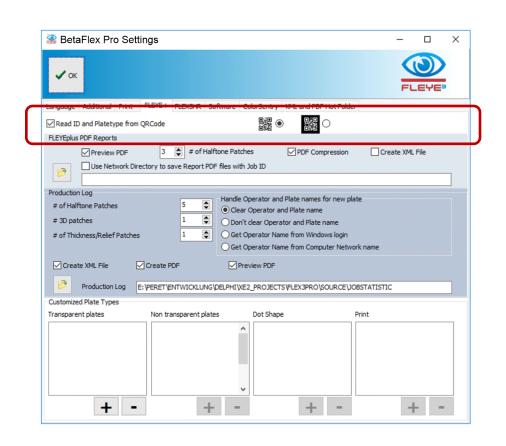
### **Reference Database**

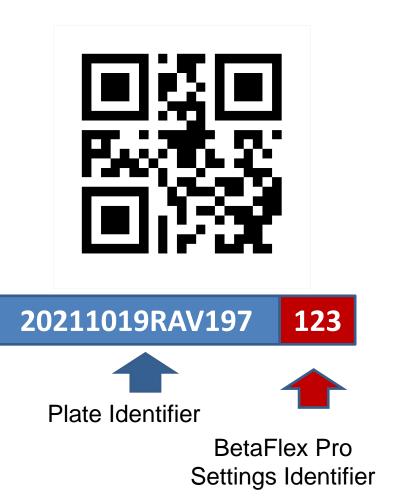






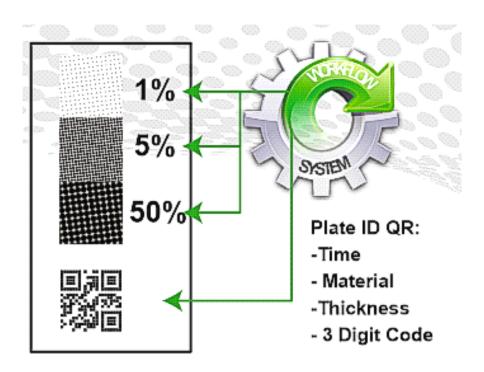
## Micro QR Code Scanning with BetaFlex Pro





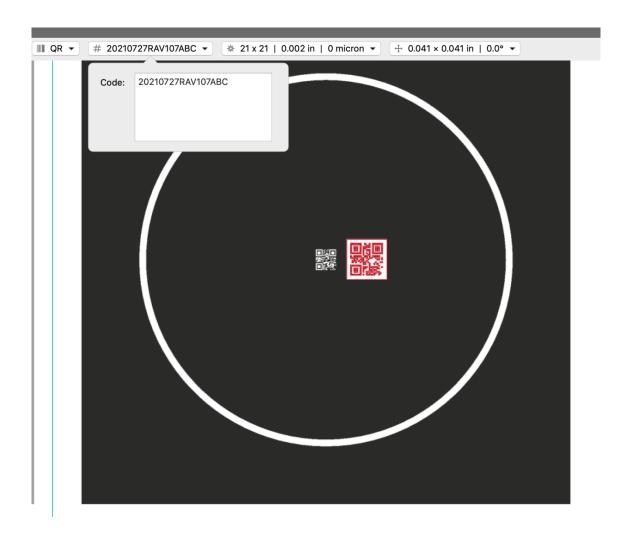


### **Create the control Strip including the QR Code**



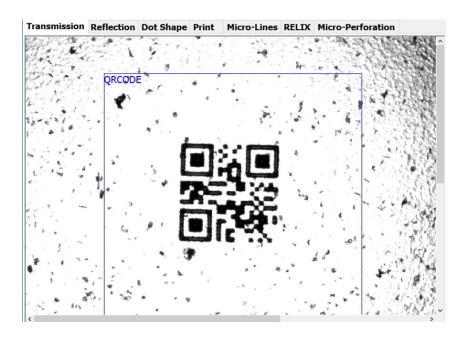


### **Create the QR Code**





# QR Code Scanning with BetaFlex Pro WorkFlow Automation

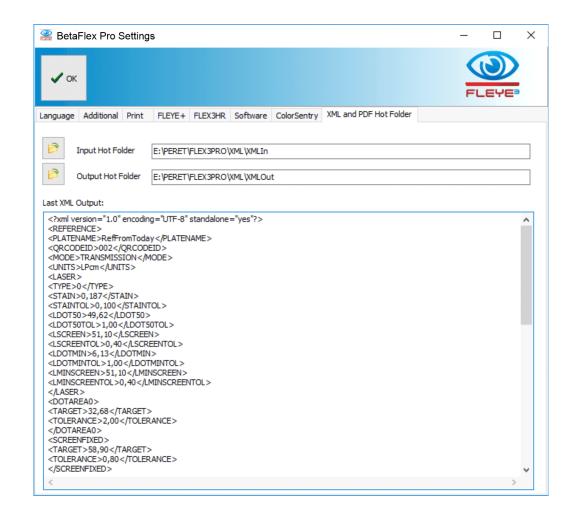


- The QR Code scanning is performed in Transmission mode
- The QR Code size limit is 0.041 x0.041 inches (1.2mm x 1.2mm)
- The QR Code definition is 21 x 21
- Click CAPTURE to decode the QR Code



Specify the Hot Folders for XML Input and XML

**Output** 





### **Update References by XML File in Hot Folder**





#### **Decoding QR Sets:**

- Camera
- Material Settings
- Time Stamp
- Plate ID



<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<REFERENCE>
<PLATENAME> Referentedays /PLATENAME>

<PLATENAME>RefFromToday</PLATENAME>

<QR CodeID>002</QR CodeID>

<MODE>TRANSMISSION</MODE>
<UNITS>LPcm</UNITS>

<LASER>

<TYPE>0</TYPE>

<STAIN>0,187</STAIN>

<STAINTOL>0.100</STAINTOL>

<LDOT50>49,62</LDOT50>

<LDOT50TOL>1,00</LDOT50TOL>

<LSCREEN>51,10</LSCREEN>

<LSCREENTOL>0,40</LSCREENTOL>

<LDOTMIN>6,13</LDOTMIN>

<LDOTMINTOL>1,00</LDOTMINTOL>

<LMINSCREEN>51,10</LMINSCREEN>

<LMINSCREENTOL>0,40</LMINSCREENTOL>

</LASER>

<DOTAREA0>

<TARGET>32,68</TARGET>

<TOLERANCE>2,00</TOLERANCE>

</DOTAREA0>

<SCREENFIXED>

<TARGET>58,90</TARGET>

<TOLERANCE>0,80</TOLERANCE>

</SCREENFIXED>

<SCREENRULING>

<TARGET>58,90</TARGET>

<TOLERANCE>0,40</TOLERANCE>

</SCREENRULING>

<DOTAREA1>

<TARGET>30,05</TARGET>

<TOLERANCE>2,00</TOLERANCE>

</DOTAREA1>

<DOTAREA2>

<TARGET>1,54</TARGET>

<TOLERANCE>1,00</TOLERANCE>

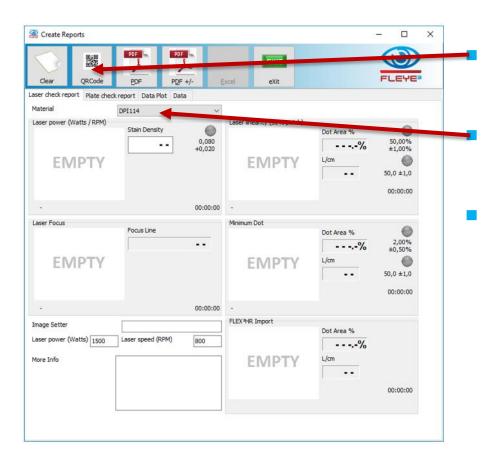
</DOTAREA2>

<DOTAREA3>

...



### **Laser Check Report**



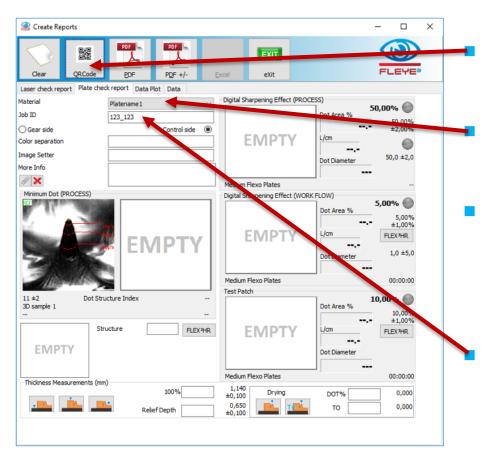
Click the QR Code Icon to scan the QR Code

Last 3 digits are used to identify the material

The XMLIn Hot Folder is automatically checked for updated references and tolerances



### **Plate Check Report**



Click the QR Code Icon to scan the QR Code

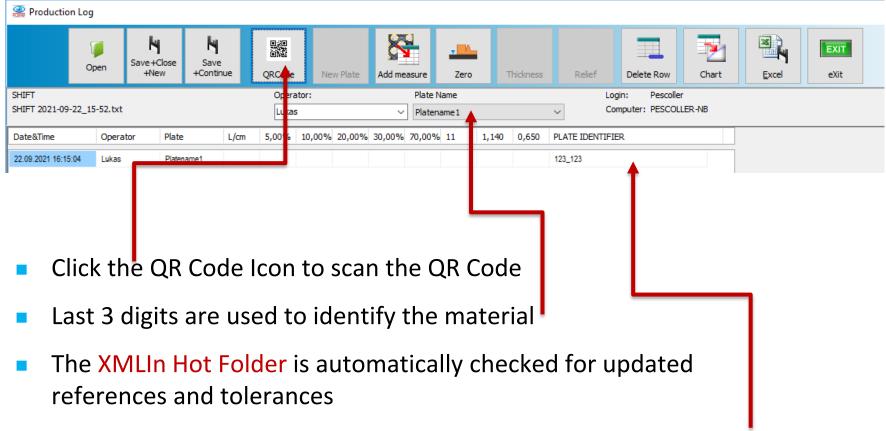
Last 3 digits are used to identify the material

The XMLIn Hot Folder is automatically checked for updated references and tolerances

The prefix digits are automatically copied to the Job ID field.



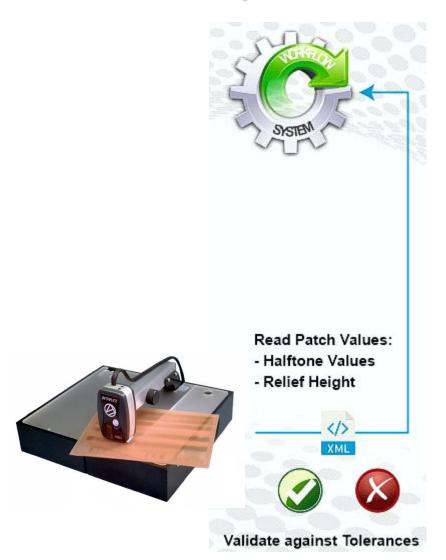
### **Production Log**

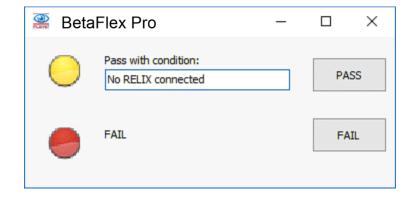


The prefix digits are automatically copied to the Job Plate Identifier field.



### **Create a PDF Report and an XML Output file**









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BetaFlex Pro Workflow Automation / QR Code Relational Database for the BetaFlex Pro

www.betascreen.net

