

# Heidelberger Prinect Multicolor



**Fogra Multicolor Shootout**

Dr. Stefan Bollmann | Munich, 2018/10/04



# ICC-Profile

Color Toolbox 19.0

HEIDELBERG

File | Tools | ?

Measure | Compare | Analysis | Create | Edit | Process standard

Test chart

- xy diagram
- ab diagram
- La/Lb diagram
- Dot gain
- Gray balance

Display of the test chart

Patch:  
ID: 545  
No.: K 5  
x: 5  
y: 11

Ref. [%]  
Cyan = 34.60  
Magenta = 21.00  
Yellow = 20.00  
Black = 20.00  
PANTONEOrange021C = 0.00  
PANTONEGreenC = 0.00  
PANTONEVioletC = 8.30

Ref. [Lab]  
L = 51.84  
a = 1.54  
b = -10.07

Ref. [XYZ]  
X = 19.42  
Y = 19.83  
Z = 20.98

Spectrum

File name: RestmHd  
Profile name:

Standard MC Fogra all Me

Generate profile

PS No.

Profile calculation

Print process parameters

Process/Technology: Multicolor Offset Printing

Paper class/Media: Wood-free coated

Process colors/Profile type:  3 color CMY  Gray

Color composition/Black generation

Total area coverage: 330 %

Maximum black: 96 %

UCR/GCR: Custom Modify

Show profile options

Profile Description

FograShootoutECG-HDM-2

Calculating the ICC output profile

Profile size: Large (16 bit profile)

Calculate V4 profile

100%

ICC profile successfully calculated! Start

Cancel Save ?

# ICC-Profile

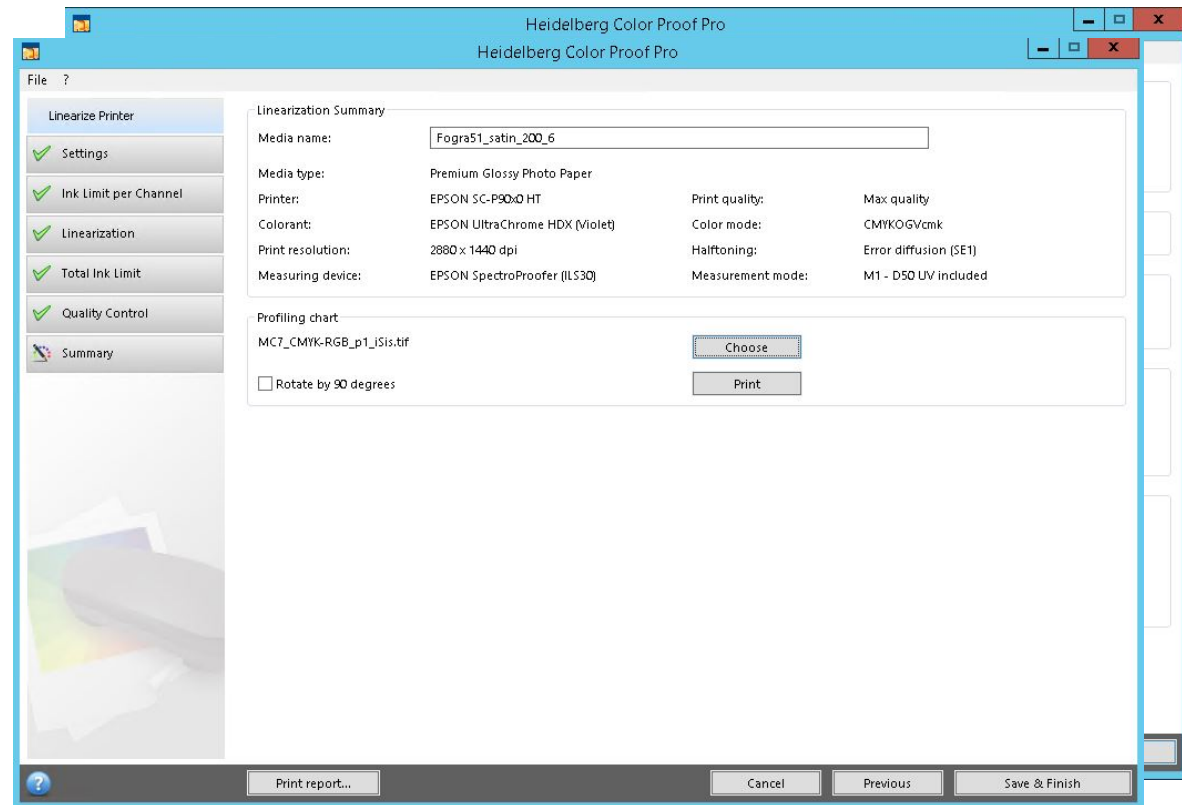




# Proofing

Epson P9000 linearization  
Prinect Color Proof Pro:  
With ILS 30 automatically.

Output of MC7 i1iSis profiling  
Test charts.



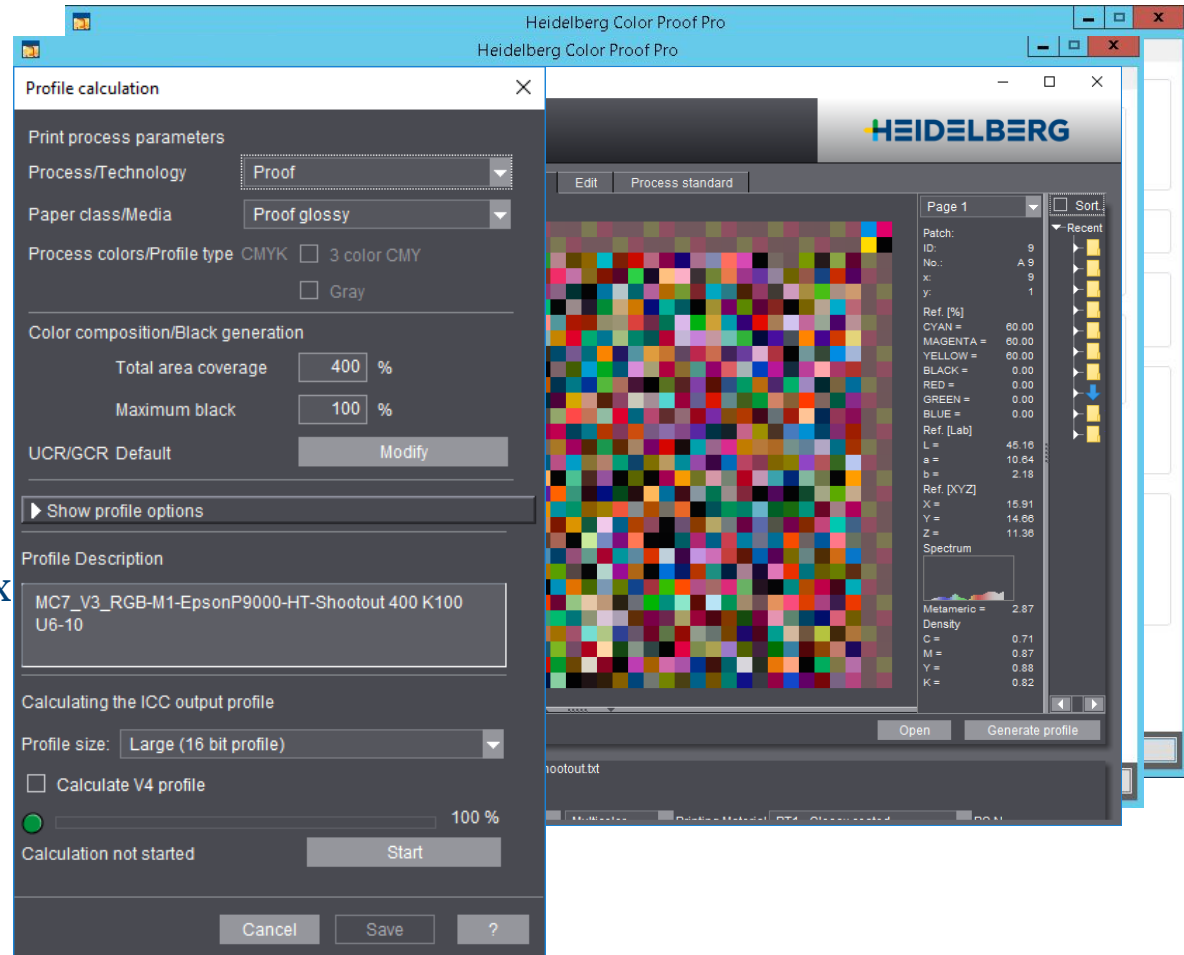


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Output of MC7 i1iSis profiling  
Test charts.

Measurement and profile  
Creation in Prinect Color Toolbox  
Measurement KM FD9 M1  
Profile creation standard values





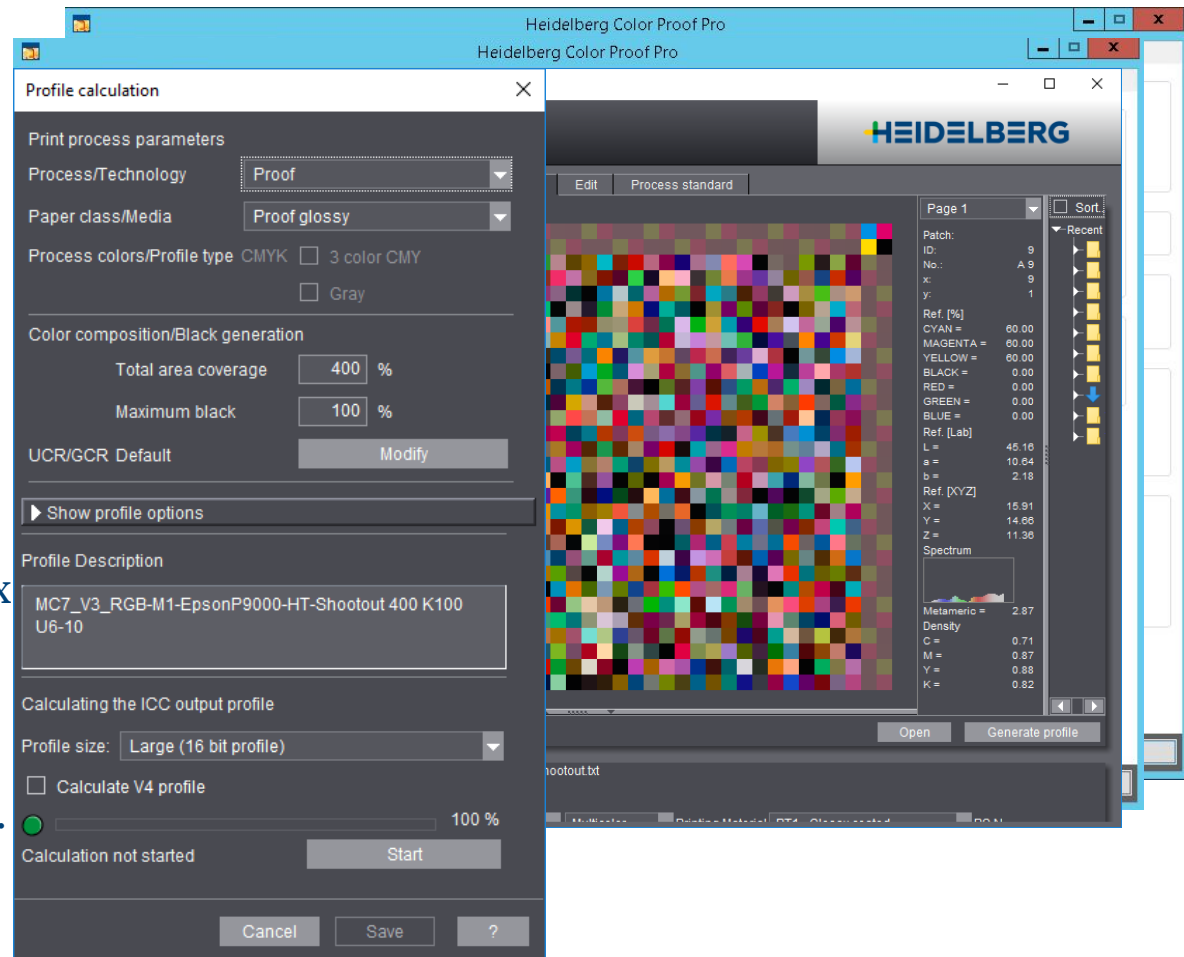
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Profile import in Color Proof Pro.



# Proof output



## Prinect Cockpit

The screenshot displays the Prinect Cockpit software interface. At the top, the window title is "Prinect Cockpit [Production, Prepress, Pressroom, Digital, Postpress] - [\\KIE-CQM-TST\PTConfig\SysConfig - Administrator]". The menu bar includes "File", "Edit", "View", "Job", "Tools", and "Help". The Heidelberg logo is prominently displayed in the top right corner.

The main workspace is titled "Fogra MC Shootout Proof" and shows an "Overview" tab. It includes a "Product Description" section, a "Submit to:" field with the value "\*PageProof\_Epson\_4900\_HT\_Service", and a "Job list" sidebar on the left. The central area features a navigation bar with "Documents", "Pages", and "Digital Printing" tabs. Below this, there are checkboxes for "Grouping: Product", "Version", "Assigned", and "File name".

The main preview area shows a multi-page proof layout titled "MultiColor\_SHootOut2018\_V9\_final.pdf". The layout consists of several pages with various images and color bars. The status bar at the bottom indicates "Selection: 0 Pages". On the right side, there are "Job Notes" and "Digital Printing Terminal" panels. The bottom of the interface shows a system tray with a notification for "10/3/18 8:38 PM There are new mess..." and a "Close Job" button.

# Spectral prediction





# Testform B separation



MultiColor\_SShootOut2018\_Testform\_B\_V5\_CxF\_embedded.pdf - Adobe Acrobat Pro DC

File Edit View Plug-Ins Window Help

Home Tools ISO126... ISO126... 2018\_e... Multicol... 1 / 1 11,9%

Direct 2019

AGFA Aluana CxS ColorGATE ESKO sbs HEIDELBERG manroland

ra MC Shootout

Management Device Colors / DeviceLink Overprint General

Independent Colors

Device Based CMYK as Device CMYK

Device Based RGB and Calibrated RGB as Device RGB

Device Based Gray and Calibrated Gray as Device Gray

Rendering Intent

All Perceptual Black Point Compensation

All Perceptual Black Point Compensation

All Absolute colorimetric Black Point Compensation

press\FograShootoutECG-HDM-2.icc

PDF Toolbox

Assemble Pages

Show Effects

Barcode & VDP Editor

PDF Compare







Save as... Save & Close Cancel

# Spot Color Separation



Prinect PDF Toolbox 2019 - Spot Colors

Spot Colors Multicolor Default Color Tables

Name	CIE L*a*b*	C	M	Y	K	S1	S2	S3	dE00
 PANTONE Green C	57.0 -74.0 30.0	0.0	1.7	58.0	1.6	0.0	87.7	0.0	0.08
 HKS 14 K	47.0 68.0 46.0	3.0	71.9	0.0	2.9	88.7	0.0	0.0	0.31
 PANTONE 493 C	66.3 35.0 6.0	7.2	32.2	4.9	1.0	22.1	0.0	0.0	0.56
 PANTONE Orange 021 C	52.0 74.0 54.0	0.0	65.4	0.0	0.0	93.6	0.0	0.0	2.43
 PANTONE 363 C	81.6 -40.0 17.0	0.0	0.0	25.0	0.0	0.0	36.2	0.0	3.61
 PANTONE Purple C	47.5 69.0 -42.0	0.0	64.8	0.0	0.0	0.0	0.0	36.4	6.77

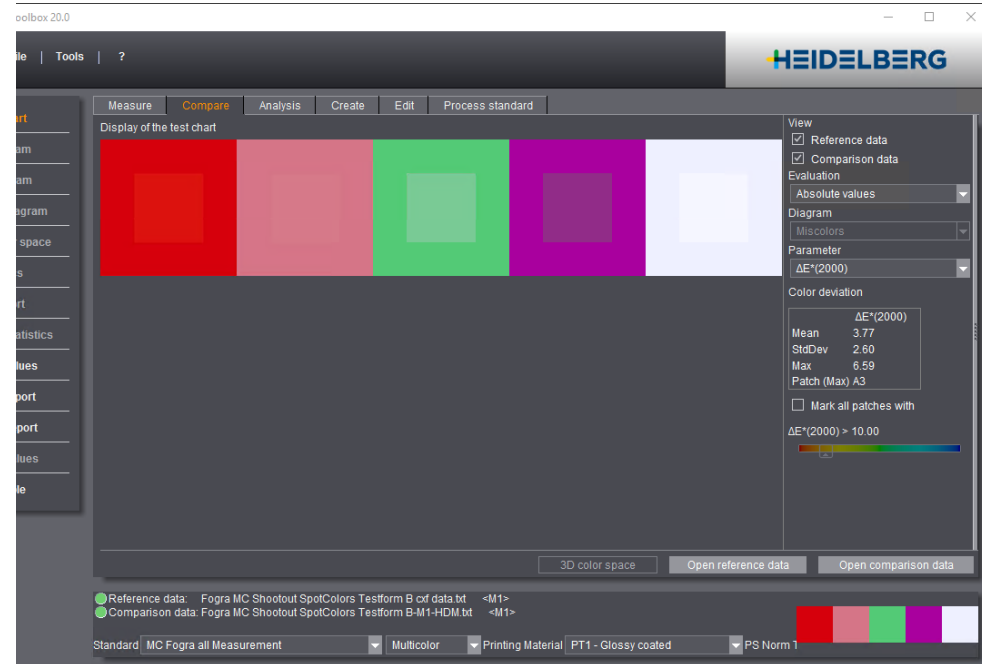
Press Profile: C:\ProgramData\Heidelberg\PDFToolbox\ICCProfiles\press\FograShootoutECG-HDM-; ...

Rendering Intent: Absolute colorimetric  Black Point Compensation

4 Optimize Export... Apply

Delta E2000 Total: 13.75 - Errors: 1 Warnings: 1

# Spot Color Result & Analysis



Prinect Color Toolbox Comparison, FD7, M1



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### Lessons learned

- Spot color replacement good in the accuracy of the tested process,
- HD Workflow is customizable to ECG use cases
- Heidelberg algorithms optimized for Heidelberg profile charts,
- Cxf/X4: work to do.