

LET'S

■■■ PRINECT ■
ANWENDERTAGE

CONNECT

WS 15 - Farbkommunikation

Color management

Prinect Anwendertage 2025

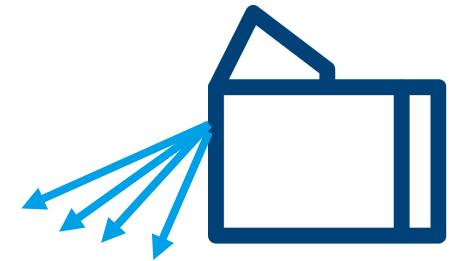
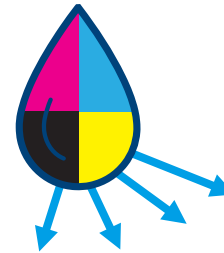
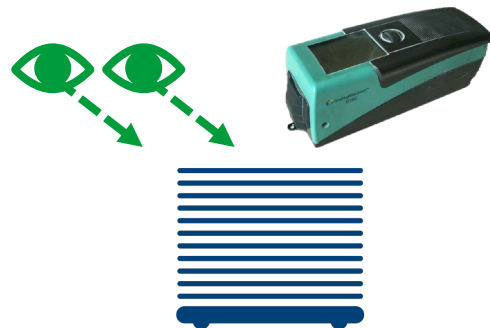
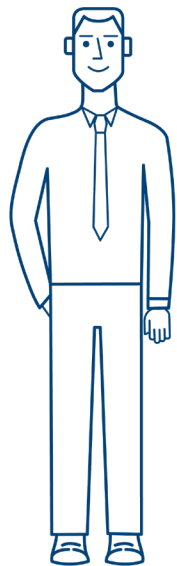
Simon Top | Print Media Center, Wiesloch | Freitag 17.01.25

Wie Farbe früher war:

Unterschiedliche isolierte Inseln in der Produktion beim Druck von 4C (CMYK):

1. Druckvorstufe und Druckplatten
2. Druckfarbe
3. Drucker und sein Know-how

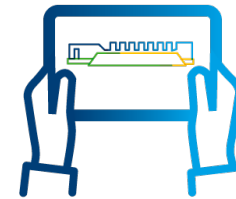
Qualitätskontrolle: - Optisch / visuell – der Drucker
 - Densitometer – Messung



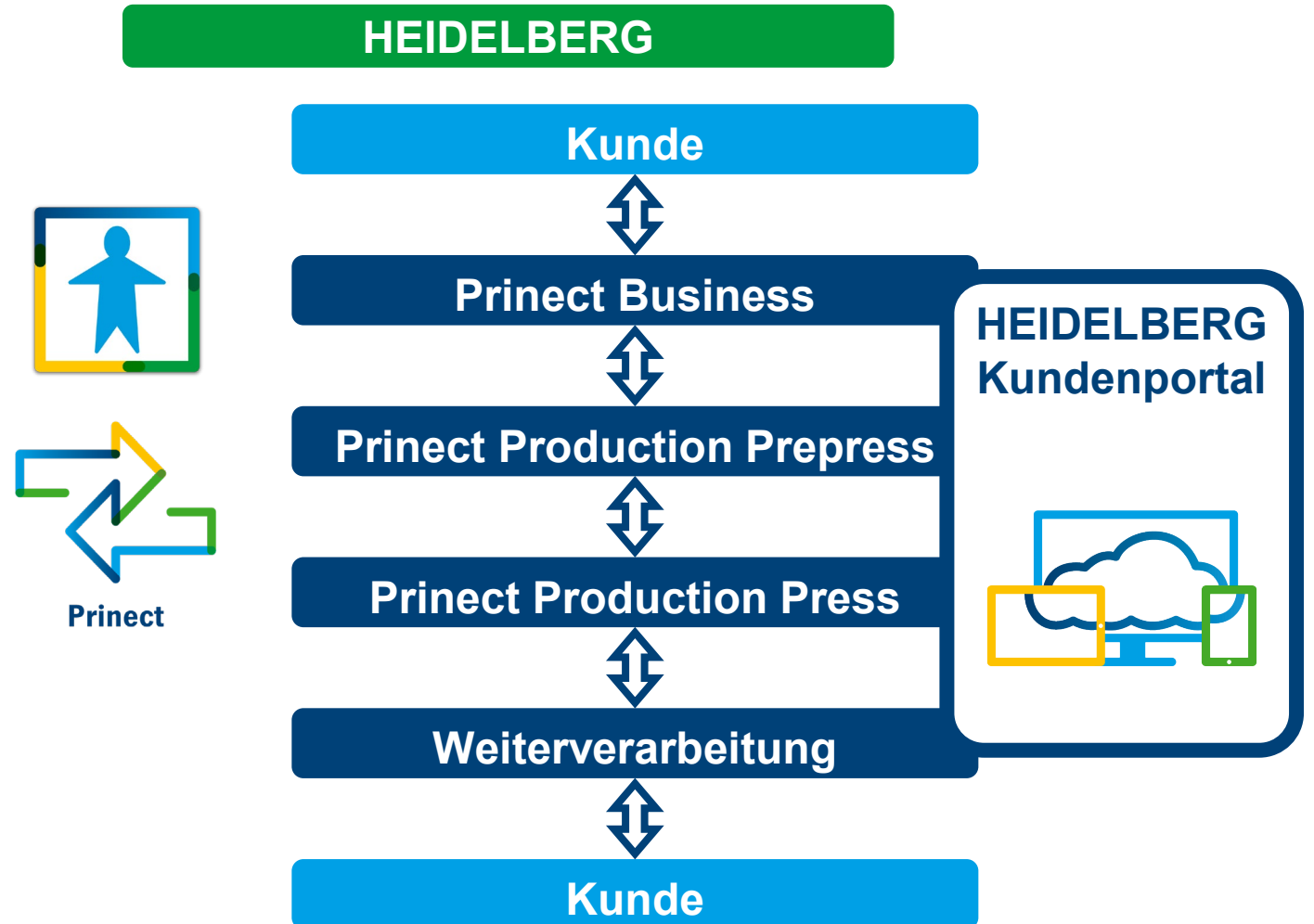
Farbe heute

Heute wird mit Farbe anders umgegangen, weil:

DIGITALISIERUNG
INNOVATION



Farbe heute im Workflow



Wo gibt es überall Farben?

Ihre Kunden wünschen sich ein farbenfrohes Druckprodukt.

Basierend auf Ihrem Produktmix:

Akzidenz



- 90% Aufträge = 4 C → 4/4
- 10% Aufträge enthalten Sonderfarben
- Kauf von Sonderfarben vom Farbhersteller



Verpackung & Label



- 80% Aufträge 4C + spot
- 20% kann mit Prozessfarben abgedeckt werden
- Interne Farbküche aufgrund der Menge an Sonderfarben



Digital



- Inkjet oder Toner
- Feste Farbsätze
- 4C – 6C – 7C
- Simulieren von Sonderfarben mit dem festen Farbsatz.



Was bietet HEIDELBERG innerhalb von Prinect?



Knowhow über Farbe



Möglichkeit, Farbe zu kommunizieren

Wir müssen BLAU drucken



HEIDELBERG
- Blau



Hellblau



sehr helles
Blau



Dunkelblau

BLAU IST NICHT IMMER DIE GLEICHE FARBE BLAU



Ozeanblau



Schwimmbad-
blau



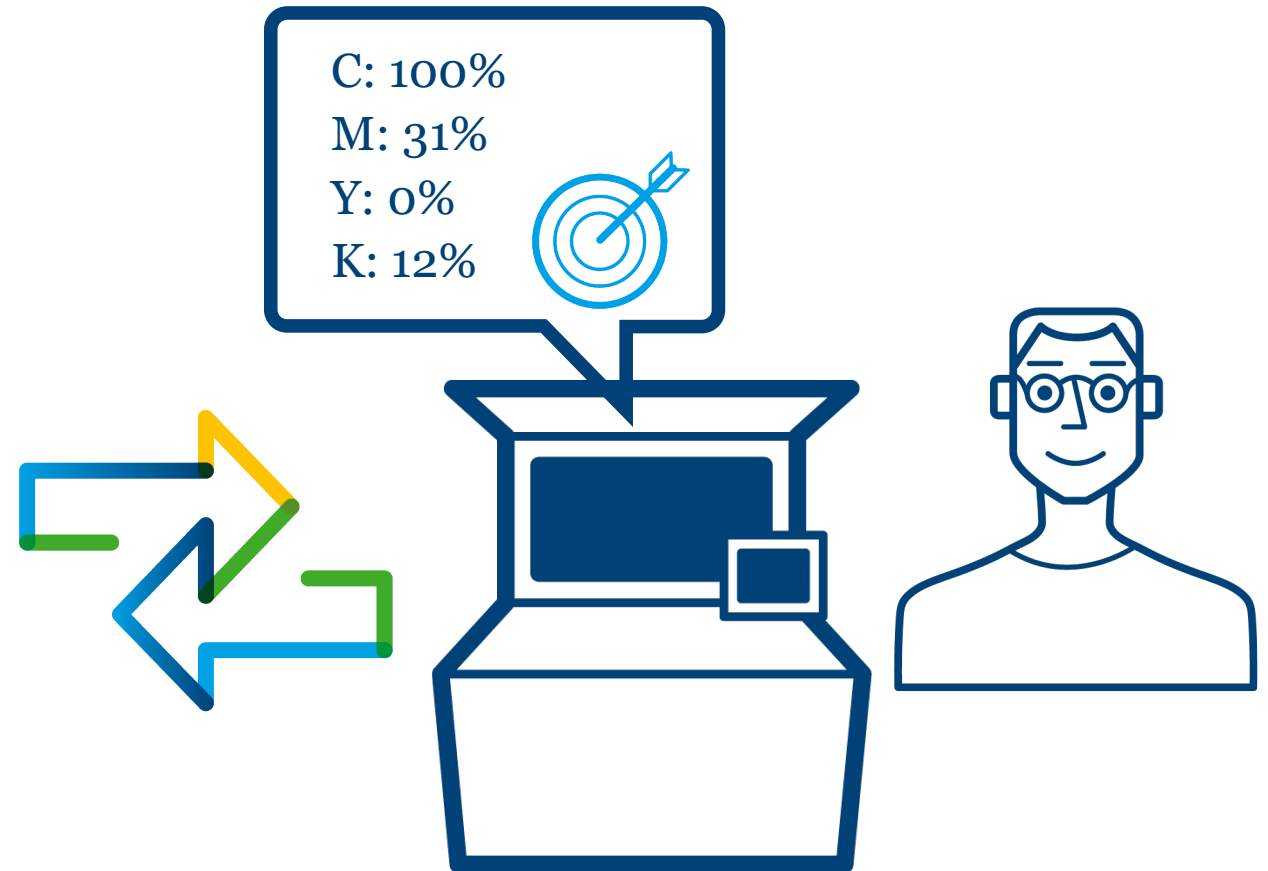
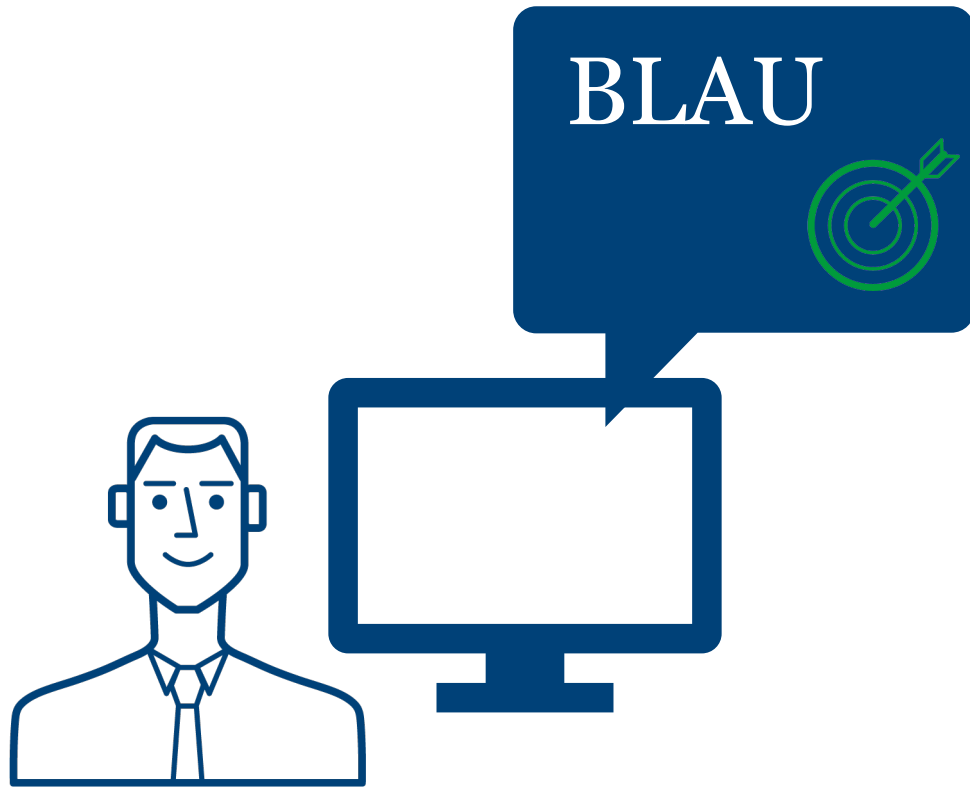
Himmelblau



variables
Blau

Farbkommunikation

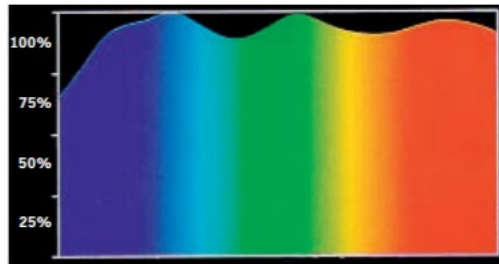
Was brauchen wir?



Standardisierung, um Verwechslungen zu vermeiden

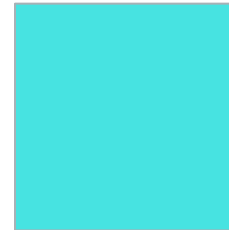
standardisierte Kommunikation von Farben = Zahlen verwenden

Spektrale Werte



CIELab

L*: 87
a*: -5
b*: -63



Dichte

Cyan: 0,9 Dlog
(farbenblind)

ISO Standard e.g. ISO 12647-2 = für CMYK
+ Tonwertzunahme
+ Überdrucken von Farben

Standardisierung für **Sonderfarben**:

- Pantone® Bibliotheken
- HKS Bibliotheken

Standards können entsprechend an individuelle Produktionsbedingungen angepasst werden.
z.B. gestrichenes vs. ungestrichenes Papier → unterschiedliche Zieldichten, angepasste Lab-Wert.

Die M-Faktoren

ISO 13655-2017: Spektrale Messung und farbmetrische Berechnung für grafische Objekte

Beinhaltet:

- standardisierte Beleuchtungsbedingungen
- Substrate mit optischen Aufhellern



	Standard „alt“	Standard „aktuell“		
Definition	M0	M1	M2	M3
Modus	„A“	„D50“	„UV-Cut“	„Polfilter“
Lichtquelle	gasgefüllte Wolframglühlampe (heute meist LED)	meist LED	meist LED	meist LED
Farbtemperatur	ca. 2850 K	5000 K	nicht definiert	nicht definiert
Spektralbereich	380 nm bis min. 700 nm	Anregung 300 nm Messung: 380 nm bis 700 nm	Messung: 420 nm bis min. 700 nm	Messung: von max. 420 nm bis min. 700 nm
Lichtart / Beobachter (CIE-Normvalenzsystem 1931)	D50 / 2°	D50 / 2°	D50 / 2°	D50 / 2°
Messgeometrie (45°:0° oder 0°:45°)	X	X	X	X
relativ / absolut	absolut	absolut	absolut	absolut
Polarisierte Messung	-	-	-	X
UV-Cut Filter (UV-Anteil ausgeschaltet/unterdrückt)	-	-	X	X

Live-Demo Farbbibliothek

- **Allgemeiner Überblick:**
 - Benutzeroberfläche
 - enthält Pantone® v5
- **Interaktiv**
 - Import einer CxF-Datei
 - Erzeugung einer neuen Farbe durch Messung des Zielwertes
 - Automatisierung in der Auftragsvorbereitung an der Druckmaschine

Live Demo Farbbibliothek



Benutzeroberfläche / Übersicht

Farbbibliothek



Prinect Color Library Login

Prerequisites
User requires
release/access to the
Prinect Portal



Connection via internet browser to Prinect Production

Prinect Portal

Dashboards

My Dashboard

Color library

PPF Handler

XL106-8P5-LX

Job: 24_25000_1
Job number: 24_25000_1
Operation: wkr_15300 5/0
Action: Basic makeready

0 / 1,000

Prinect Color Library Overview „Folders“

Color library

winnatje HEIDELBERG

< Folders heidelberg

Folder Name	Active	Colors	Customers
No results			

0 - 0 of 0 |< < > >|

Princt Color Library

Overview „Color details“

Color library winnatje HEIDELBERG

PANTONE® Solid Uncoated-V5 PANTONE Reflex Blue U

Color Name ↑	Lab (M2)	Process Colors (CMYK)	Usage	Type	Coating
PANTONE Reflex Blue U	33.5 15.2 -49.2	-	Printing unit	Normal	-

Details
Measurement Service

Properties

Created by: MDClientAdmin@WIEAPP01056
 Created on: Jun 13, 2024, 12:33:31 PM
 Modified by: MDClientAdmin@WIEAPP01056
 Date Modified: Jun 13, 2024, 12:33:31 PM
 Alias:

Color values

Lab (M2): 33.5 15.2 -49.2
 Neutral Density: -
 Type: Normal
 Overprint: -

Parameters

Usage: Printing unit
 Screening Angle: -
 Calibration Substitute Color: -
 Coating: -

> Target Values (4)

> Print production (4) +

1 - 1 of 1

Prinect Color Library

Overview „Color details“

Target Values (4)

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		33.5 15.2 -49.2	97.5 2.2 -6.9
M1		33.6 15.9 -50.3	97.8 2.4 -10.1
M2		33.4 14.1 -47.9	97.3 -0.2 0.6
M3		25.4 12.6 -56.5	96.0 -0.1 0.1

Target values

- absolute values / no link to coated or uncoated paper
- dry values in prepress for proofing and digital print
- no access to the values from printing machine
- central place to manage colors



Print production (values)

- absolute values / link to coated or uncoated paper
- changeable only from press operator
- linked to target values

Print production (4)

Paper Type	Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
Uncoated	M0		33.5 15.2 -49.2	97.5 2.2 -6.9
Uncoated	M1		33.6 15.9 -50.3	97.8 2.4 -10.1
Uncoated	M2		33.4 14.1 -47.9	97.3 -0.2 0.6
Uncoated	M3		25.4 12.6 -56.5	96.0 -0.1 0.1

Prinect Color Library Overview „HKS library“

The screenshot shows the 'Color library' interface with the 'HKS' folder selected. A table lists the folders, and a detailed view of the 'HKS-K_2001' folder shows a list of colors and their Lab (M2) and Process Colors (CMYK) data. A callout box highlights that HKS is part of the color library with a spectrum available for measurement conditions M2 and M3, and is version 2001. A yellow box labeled 'Write-protected' is also present.

Folder Name	Active	Colors	Customers
HKS-K_2001	✓	96	
HKS-N_2001	✓	94	

Color Name	Lab (M2)	Process Colors (CMYK)	Usage
HKS 12 K	53.5 69.4 56.0	0.00% 90.00% 100.00% 0.00%	Printing unit
HKS 13 K	51.8 74.6 57.5	0.00% 100.00% 95.00% 0.00%	Printing unit
HKS 14 K	49.3 68.8 47.4	0.00% 100.00% 100.00% 0.00%	Printing unit
HKS 15 K	43.1 67.6 35.5	5.00% 100.00% 80.00% 0.00%	Printing unit
HKS 16 K	36.1 51.5 25.0	30.00% 100.00% 90.00% 0.00%	Printing unit

Measurement Condition	Lab (M2)	Process Colors (CMYK)
M2	51.8 74.6 57.5	93.0 1.0 0.0
M3	49.4 74.4 61.4	90.0 -1.1 0.1

Measurement Condition	Lab (M2)	Process Colors (CMYK)
M0	51.8 74.7 56.0	92.9 1.7 -2.1
M1	51.8 74.7 56.3	93.0 2.0 -4.1

Prinect Color Library

Overview „PANTONE® library - V5 “

Write-protected

PANTONE® - Part of the color library

- Spectrum available for the measurement conditions M0, M1, M2, M3
- PANTONE® Solid Version 5 with new color descriptions included

Color library

Folders

Folder Name	Active	Colors	Custom
PANTONE® hexachrome coated	✓	0	
PANTONE® hexachrome uncoated	✓	0	
PANTONE® Solid Coated-V5	✓	2369	
PANTONE® Solid Uncoated-V5	✓	2369	
PANTONE® Color Bridge Coated-V5	✓	2363	
PANTONE® Color Bridge Uncoated-V5	✓	2363	
PANTONE® solid in hexachrome coated	✓	0	
PANTONE® PLUS pastels & neons coated	✓	0	
PANTONE® PLUS pastels & neons uncoated	✓	0	
PANTONE® Premium Packaging Metallics Coated	✓	655	

PANTONE® Solid Coated-V5

Color Name ↑	Lab (M2)
PANTONE 100 C	92.1 -7.5 63.5
PANTONE 101 C	91.9 -7.6 72.4
PANTONE 102 C	90.3 -5.1 106.0
PANTONE 103 C	70.2 0.3 83.6
PANTONE 104 C	63.6 -0.4 69.9
PANTONE 105 C	51.6 -0.8 44.4
PANTONE 106 C	90.7 -4.1 72.1
PANTONE 107 C	89.8 -2.5 81.7

Measurement	Spectrum	Color (L*a*b*)
M0		15.3 33.8 -68.8
M1		15.9 34.4 -70.0
M2		14.9 31.9 -67.1
M3		13.1 33.6 -68.4

Prinect Color Library

Overview „Define individual Folders “

The screenshot illustrates the process of defining individual folders in the Prinect Color Library. It is divided into three main sections:

- Top Section:** Shows the 'Color library' header with a search bar containing 'User days' and a '+', 'edit', and 'delete' icon. Below is a table with the following data:

Folder Name	Active	Colors	Customers
Prinect Anwendertage - Prinect User Days	✓	0	
- Right Section:** A 'Create new folder' dialog box is open. It contains:
 - Folder Name: MY NEW FOLDER
 - Process Color Space:
 - CMYK (CMYK)
 - Hexachrome (CMYKOG)
 - ICC Profile... (Select file...)
 - Customers: CUTOMER 01
 - Permissions:
 - Edit
 - Delete
 - Buttons: Abort, Create
- Bottom Section:** A detailed view of the 'my new folder' entry in the table:

Folder Name ↓	Active	Colors
MY NEW FOLDER	✓	0

Prinect Color Library

Overview „Define individual colors in new folders via Lab “

The screenshot shows the Prinect Color Library interface. A folder named "MY NEW FOLDER" is selected. A "Create new color" dialog box is open, showing the "Lab (M2)" definition with L=60, a=-35, and b=60. A callout box states: "Lab definition is always M2 the spectrum is calculated from m2". Below, a table shows the resulting color definition for "Color_20250116".

Color Name ↑	Lab (M2)	Process Colors (CMYK)	Usage	Type	Coating
Color_20250116	60.0 -35.0 60.0	-	Printing unit	Transparent	-

Measurement	Spectrum	Color (L*a*b*)
M0		60.2 -35.0 59.4
M1		60.5 -35.2 59.5
M2		60.0 -35.0 60.0
M3		58.3 -36.8 62.0

Prinect Color Library

Overview „Use handheld spectral device to measure color“

Color_20250116

Details | Measurement Service

HOST: WIEPC62516 PORT: 7135 DEVICE: -

Manage connection Workstation and device connection must be set up before measurement.

INITIAL MEASUREMENT

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		60.2 -35.0 59.4	94.7 1.6 -5.3
M1		60.5 -35.2 59.5	95.0 1.8 -7.8
M2		60.0 -35.0 60.0	94.5 0.0 0.0
M3		58.3 -36.8 62.0	93.7 0.1 -0.6

TARGET COLOR | PAPER WHITE

L*: 60.2 a*: -35.0 b*: 59.4

L*: 94.7 a*: 1.6 b*: -5.3

Save changes | Iterative measurement

Setup workstation and device

Please enter the computer name

Host: wiepc62516 Port: 7135

Connect Connection established for WIEPC62516

Loading selected device properties

Cancel

Setup workstation and device

Please enter the computer name

Host: wiepc62516 Port: 7135

Connect Connection established for WIEPC62516

Select the measuring device and the measuring condition and continue.

Device*: X-Rite eXact (1/2) (spot) Measurement Condition*: All (M0, M1, M2, M3)

Konica Minolta FD-7 (spot) on the calibration white tile.

X-Rite iPro (2/3) (spot)

X-Rite eXact (1/2) (spot)

TECHKON SpectroDens (spot)

Cancel Calibrate

CIE L*a*b* D50/2°, M0

SCHNELLSTANDARD BLUE_1

Probe (um 13:32 Uhr) SUCHE INAKTIV

ΔL^* -37,04

Δa^* -58,32

Δb^* 7,80

ΔE_{00} 38,67

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		58.9 -56.4 2.5	92.9 0.7 -5.2
M1		59.1 -56.4 1.8	93.0 1.0 -7.0
M2		58.8 -57.0 4.2	93.0 0.0 -3.0
M3		57.3 -58.5 4.3	91.6 0.1 -3.3

TARGET COLOR | PAPER WHITE

L*: 58.9 a*: -56.4 b*: 2.5

L*: 92.9 a*: 0.7 b*: -5.2

Spectral measurement
 Depending on the measuring device, different measuring conditions can be measured simultaneously (Xrite Eaxct 2)

Prinect Color Library

Overview „Copy PANTONE ® color to individual folder“

PANTONE® Solid Coated-V5

Color Name ↑	Lab (M2)	Process Colors (CMYK)	Usage	Type	Coating
PANTONE 186 C	44.9 67.7 37.4	-	Printing unit	Normal	-
PANTONE 2186 C	27.4 -7.8 -45.4	-	Printing unit	Normal	-
PANTONE 4186 C	56.0 -11.9 -5.4	-			
PANTONE 6186 C	41.1 -9.4 11.9	-			

Write-protected

Duplicate color

Source: PANTONE 2186 C CMYK

new name*
PANTONE 2186 C

Target folder: Prinect Anwendertage - Prinect User Days

Prinect Anwendertage - Prinect User Days (CMYK)

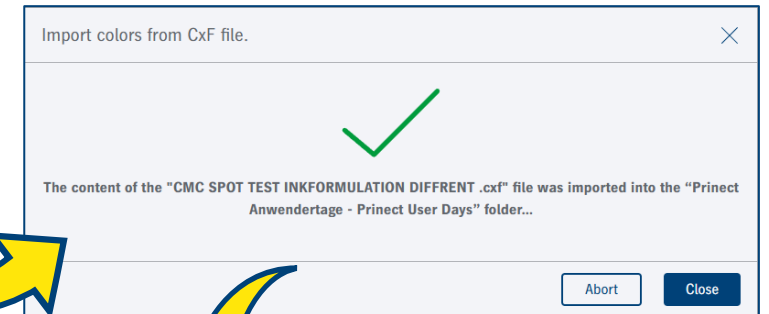
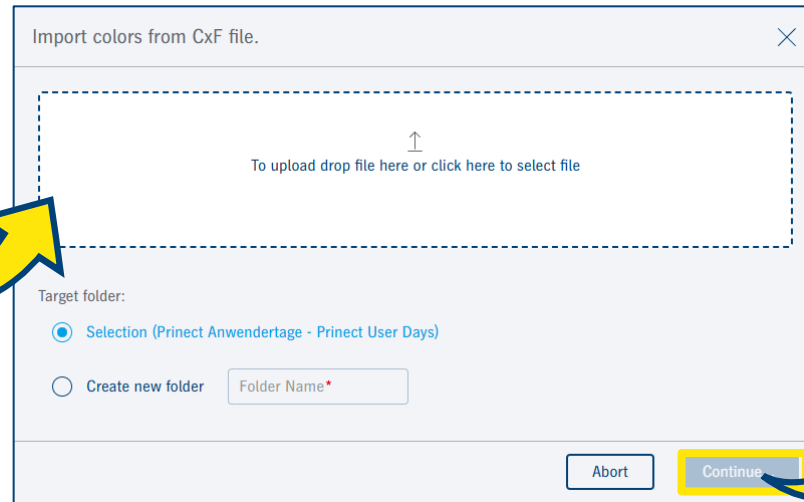
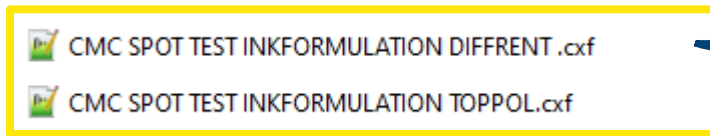
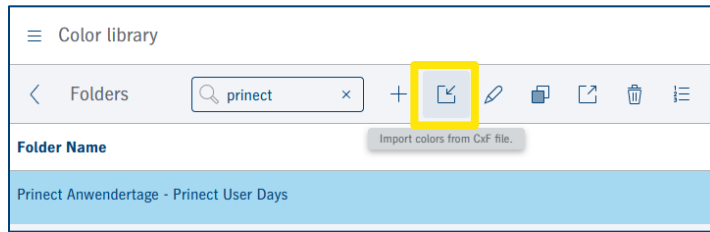
Abort Duplicate

Color Name ↑	Lab (M2)
PANTONE 2186 C	27.4 -7.8 -45.4





write protection lifted

Princt Color Library

Overview „Import CxF file“



Color Name	Lab (M2)	Process Colors (CMYK)	Usage	Type	Coating
PANTONE 199 C	471 72.2 35.2	-	Printing unit	Normal	-
PANTONE 2186 C	27.4 -7.8 -45.4	-	Printing unit	Normal	-
RENAME PANTONE 2186	37.9 -6.2 -33.2	-	Printing unit	Normal	-

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		471 72.3 34.7	92.8 0.4 2.9
M1		471 72.3 33.9	92.9 0.9 0.5
M2		471 72.2 35.2	92.9 -0.1 4.9
M3		45.3 74.8 38.3	91.5 0.0 4.5

Messgeräteservice

Farbbibliothek



Measurement Service

HDD Treffen 2024 🔗 ⚙️ + ⋮ HDD Color 001

Color Name ↑	Lab (M2)	Process Colors (CMYK)	Usage	Typ
HDD Color 001	30.0 30.0 30.0 -		Printing unit	Normal

HOST: WIEPC62516 **PORT:** 7135 **DEVICE:** -

Manage connection Workstation and device connection must be set up before measuring

INITIAL MEASUREMENT

Setup workstation and device

Please enter the computer name or IP address here

Host* Port*

Connect 🟢 Connection established for WIEPC62516

Select the measuring device and the measuring condition and continue.

Device* Measurement Condition*

📄 Place the instrument on a flat surface with the target base open and press "OK".

TARGET COLOR

L*: 29.9 a*: 30.1 b*: 29.8

b*: -5.3

HDD Color 001

HOST: WIEPC62516 **PORT:** 7135 **DEVICE:** X-Rite eXact (1/2) (spot) **CONDITION:** All

Manage connection

INITIAL MEASUREMENT

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		29.9 30.1 29.8	94.7 1.6 -5.3
M1		29.9 30.2 29.6	95.0 1.8 -7.8
M2		30.0 30.0 30.0	94.5 0.0 0.0
M3		26.7 31.8 35.7	93.7 0.1 -0.6

TARGET COLOR

PAPER WHITE

L*: 94.7 a*: 1.6 b*: -5.3

Measurement in progress...

Measurement Service

HDD Color 001

Details Measurement Service

HOST: WIEPC62516 PORT: 7135 DEVICE: X-Rite eXact (1/2) (spot) CONDITION: All

Manage connection

INITIAL MEASUREMENT

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0			
M1			
M2			
M3			

TARGET COLOR

L*: 37.7
a*: 28.6
b*: 27.4

Discard Changes Save changes

Iterative measurement

Measurement wizard

Additionally measuring paper white for M0, M1, M2, M3 is recommended. ISO standard values will be applied otherwise.

No values available for the following measurement conditions: M0, M1, M2, M3. Click below to measure paper white for the current device configuration (M0, M1, M2, M3).

Measure paper white

Discard Changes Save changes

HDD Color 001

Details Measurement Service

HOST: WIEPC62516 PORT: 7135 DEVICE: X-Rite eXact (1/2) (spot) CONDITION: All

Manage connection

INITIAL MEASUREMENT

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		37.7 28.6 27.4	92.9 0.7 -5.2
M1		37.7 28.5 26.8	93.0 1.0 -7.0
M2		37.6 28.4 28.9	93.0 0.0 -3.0
M3		35.1 29.3 30.7	91.6 0.1 -3.3

TARGET COLOR

L*: 37.7
a*: 28.6
b*: 27.4

PAPER WHITE

Measurement in progress...

Discard Changes Save changes

Iterative measurement

Measurement wizard

All measurements have been completed. You can now save your results.

Discard Changes Save changes

Values are overwritten

Previous values (including source color) will be overwritten. Do you wish to proceed?

Abort Save

Measurement Service

HDD Color 001

Details Measurement Service

HOST: WIEPC62516 PORT: 7135 DEVICE: X-Rite eXact (1/2) (spot) CONDITION: All

Manage connection

INITIAL MEASUREMENT

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		37.7 28.6 27.4	95.7 1.6 -5.3
M1		37.7 28.5 26.8	96.1 1.3 -7.5
M2		37.6 28.4 28.9	95.5 -0.3 0.5
M3		35.1 29.3 30.7	93.9 -0.4 0.4

TARGET COLOR PAPER WHITE

L*: 37.7

a*: 28.6

b*: 27.4

L*: 95.7

a*: 1.6

b*: -5.3

Save changes Iterative measurement

Target Values (4)

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		37.7 28.6 27.4	95.7 1.6 -5.3
M1		37.7 28.5 26.8	96.1 1.3 -7.5
M2		37.6 28.4 28.9	95.5 -0.3 0.5
M3		35.1 29.3 30.7	93.9 -0.4 0.4

Print production (0)

Paper Type	Measurement	Spectrum	Color (L*a*b*)	Paper White
No data found!				

Measurement Service

HDD Color 001

Details | Measurement Service

Usage*
Printing unit

Screening Angle

Calibration Substitute Color

Coating

Target Values

Select paper type for which process values should be created.

Uncoated

Glossy coated

Matt coated

Abort | Get values

Measurement

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		37.7 28.6 27.4	95.7 1.6 -5.3
M1		37.7 28.5 26.8	96.1 1.3 -7.5
M2		37.6 28.4 28.9	95.5 -0.3 0.5
M3		35.1 29.3 30.7	93.9 -0.4 0.4

Print production (0)

No data found!

HDD Color 001

Details | Measurement Service

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		37.7 28.6 27.4	95.7 1.6 -5.3
M1		37.7 28.5 26.8	96.1 1.3 -7.5
M2		37.6 28.4 28.9	95.5 -0.3 0.5
M3		35.1 29.3 30.7	93.9 -0.4 0.4

Print production (4)

Paper Type	Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
Uncoated	M0		37.7 28.6 27.4	95.7 1.6 -5.3
Uncoated	M1		37.7 28.5 26.8	96.1 1.3 -7.5
Uncoated	M2		37.6 28.4 28.9	95.5 -0.3 0.5
Uncoated	M3		35.1 29.3 30.7	93.9 -0.4 0.4

Headset Earphone (Poly Blackwire 3325 Series): 60%

CXF-Import

Farbbibliothek



CXF Import

☰ Color library

< Folders +

Folder Name ↓ **Import colors from CxF file.** Active Colors Customers

Import colors from CxF file. ✕

To upload drop file here or click here to select file

Target folder:

Selection (HDD Treffen 2024)

Create new folder

Import colors from CxF file. ✕

The content of the "HD Tests M0_fixed_20240423.cxf" file was imported into the "HDD Treffen 2024" folder...

CXF Import

☰ Color library

PortalAdmin

HDD Treffen 2024 <input type="text" value="Find..."/>						
Color Name ↑	Lab (M2)	Process Colors (CMYK)	Usage	Type	Coating	
10-756	81.6 22.5 6.6	-	Printing unit	Normal	-	
11-750	80.0 28.9 6.6	-	Printing unit	Normal	-	
11-778	87.6 7.9 3.5	-	Printing unit	Normal	-	
12-608	86.5 -16.1 5.8	-	Printing unit	Normal	-	
14-247	58.6 7.3 -24.0	-	Printing unit	Normal	-	
14-249	70.5 30.4 -23.2	-	Printing unit	Normal	-	
1-749	81.8 24.4 94.0	-	Printing unit	Normal	-	
1-751	84.6 -3.3 58.1	-	Printing unit	Normal	-	
17-602	16.9 0.6 -1.2	-	Printing unit	Normal	-	
2-034	68.1 59.5 74.0	-	Printing unit	Normal	-	
2-915	78.8 35.6 73.8	-	Printing unit	Normal	-	
3-1156	38.7 45.2 15.5	-	Printing unit	Normal	-	
3-1300	50.6 69.3 46.8	-	Printing unit	Normal	-	
3-1412	66.4 18.9 4.6	-	Printing unit	Normal	-	
5-2174	20.5 -1.2 -19.5	-	Printing unit	Normal	-	
5-2335	72.9 -27.1 -29.1	-	Printing unit	Normal	-	
5-410	86.2 -16.7 -5.0	-	Printing unit	Normal	-	
6-1176	85.1 -16.7 5.2	-	Printing unit	Normal	-	
6-1189	84.6 -21.8 83.7	-	Printing unit	Normal	-	

CXF Import

HDD Treffen 2024

🔗 🔄 + ⋮
● 14-247

Color Name ↑	Lab (M2)	Process Colors (CMYK)	Usage	T
10-756	81.6 22.5 6.6 -		Printing unit	M
11-750	80.0 28.9 6.6 -		Printing unit	M
11-778	87.6 7.9 3.5 -		Printing unit	M
14-247	58.6 7.3 -24.0 -		Printing unit	M
14-249	70.5 30.4 -23.2 -		Printing unit	M
1-749	81.8 24.4 94.0 -		Printing unit	M
1-751	84.6 -3.3 58.1 -		Printing unit	M
17-602	16.9 0.6 -1.2 -		Printing unit	M
2-034	68.1 59.5 74.0 -		Printing unit	M
2-915	78.8 35.6 73.8 -		Printing unit	M
3-1156	38.7 45.2 15.5 -		Printing unit	M
3-1200	50.6 69.2 46.8 -		Printing unit	M

Details
Measurement Service

Usage*

Screening Angle

Calibration Substitute Color

Coating

Target Values (4)

Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
M0		58.4 8.9 -25.8	92.9 0.7 -5.2
M1		58.8 9.2 -28.7	95.0 1.8 -7.8
M2		58.6 7.3 -24.0	94.5 0.0 0.0
M3		57.0 7.2 -25.2	93.7 0.1 -0.6

Print production (0) + ▾

Paper Type	Measurement	Spectrum	Color (L*a*b*)	Paper White (L*a*b*)
No data found!				

1 - 26 of 26 |< < > >|

Zusammenfassung

- **Standardisieren Sie Ihre Farbkommunikation**
 - Verwenden Sie Zahlen – z.B. CIELab oder CxF
 - Kommunizieren Sie Messbedingungen
- **Neue Technologien** ermöglichen:
 - zentralisiertes Farbmanagement
 - digitalisierte Farbkommunikation
 - automatisierte Übertragung Ihrer Farbinformationen



**Prinect bietet Werkzeuge zur Verwaltung von Farben.
HEIDELBERG unterstützt Sie mit Farb-Know-how.**

Vielen Dank für Ihre Aufmerksamkeit

LET'S

■■■ PRINECT ■
ANWENDERTAGE

CONNECT