



Epson SureColor® P20000

Professional 64" Photographic Printer

Preliminary Product Presentation
Specifications Subject to Change.



The Art of Performance.

Our latest imaging technologies have produced a no-compromise printer line for true, high-production, of virtually any photographic imaging application.

Introducing the Epson SureColor P20000 Series





← 64" →

Epson SureColor P20000

\$11,995 MSRP

Shipping March 2016



All-New Printer Design from Epson

Front Control Panel Overview

Epson SureColor P20000





Epson UltraChrome PRO Ink

Newly Developed 9-Color Pigment Ink Technology





Ink Cartridge Capacity
700 ml per Color

SureColor P-Series printers are designed to work exclusively with specially formulated Epson inks, and not with other brands of cartridges or inks.

■ Next-Generation 9-Color Pigment Ink Technology

- All new pigments for outstanding color performance
- Improved Resin Encapsulation Technology for superior gloss uniformity

■ Four-Level Gray System

- Outstanding transitions and blends with less visible grain or noise
- Superior grayscale performance for reduced bronzing

■ Improved Black Density

- Black pigments are 1.5 times denser than previous generation ink set
- Significant improvement to overall contrast ratio and optical clarity

■ Significant Print Permanence Improvements

- Newest generation of yellow pigment technology for improved print permanence
- Up to twice the overall print permanence versus our previous generation ink set
- Visit www.wilhelm-research.com for the latest print permanence details

1 2 3 4 5 6 7 8 9 10

Epson UltraChrome PRO



Four levels of gray produces extremely accurate blends and transitions

Light Gray

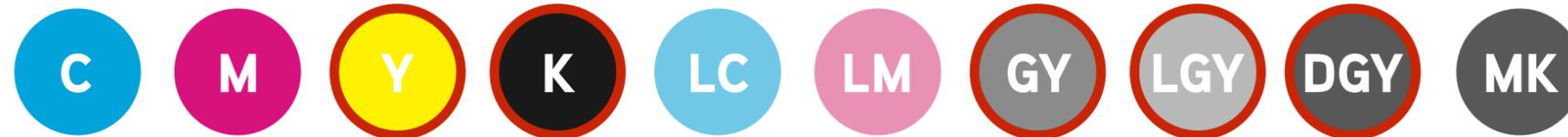
Gray

Dark Gray

Photo Black

1 2 3 4 5 6 7 8 9 10

Epson UltraChrome PRO



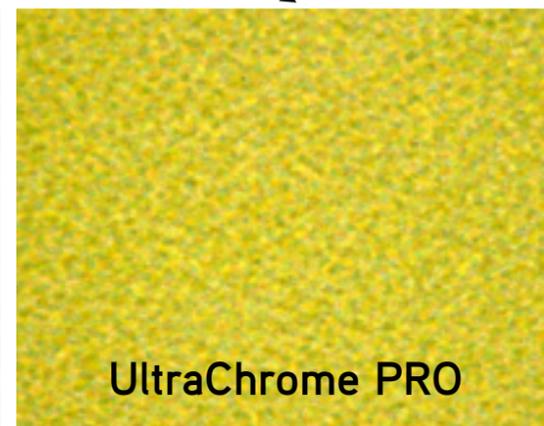
Four levels of gray produces far less noise or grain



Actual Ink on Paper
Magnified 20x



UltraChrome HDX

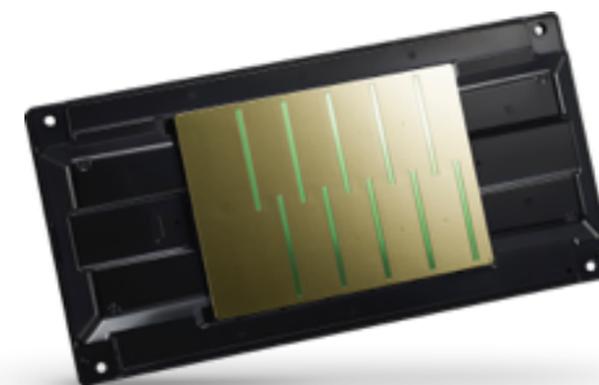


UltraChrome PRO



Epson PrecisionCore microTFP

Newly Developed 10-Channel Print Head Technology



■ All-New High-Performance Photographic Print Head Technology

- 800 nozzles per color x 10-channels for a total of 8,000 nozzles
- Print head width of 2.64 inches
- Extreme dot placement accuracy and shape for outstanding print clarity
- True production-level printing without the loss of print quality

■ High Resolution Printing

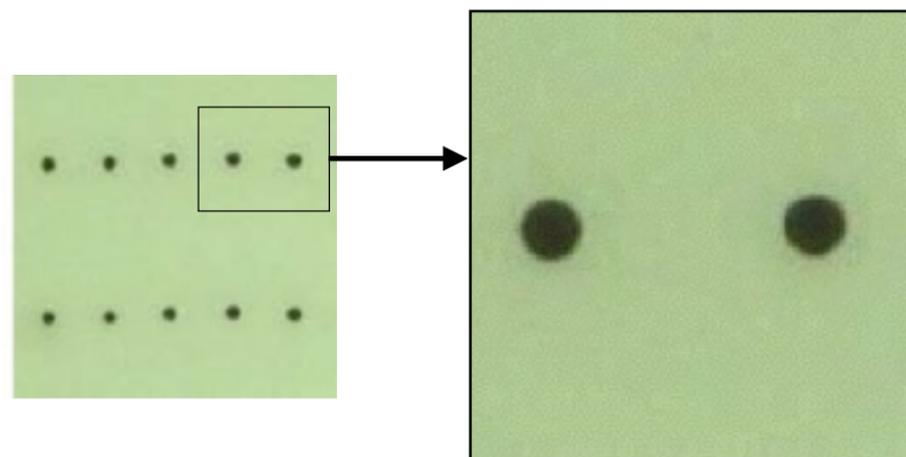
- Capable of printing up to 2,400 x 1,200 dpi
- Supports Epson Variable-Sized Droplet Technology as small as 3.5 picoliter

■ Automatic Realtime Black Ink Type Switching

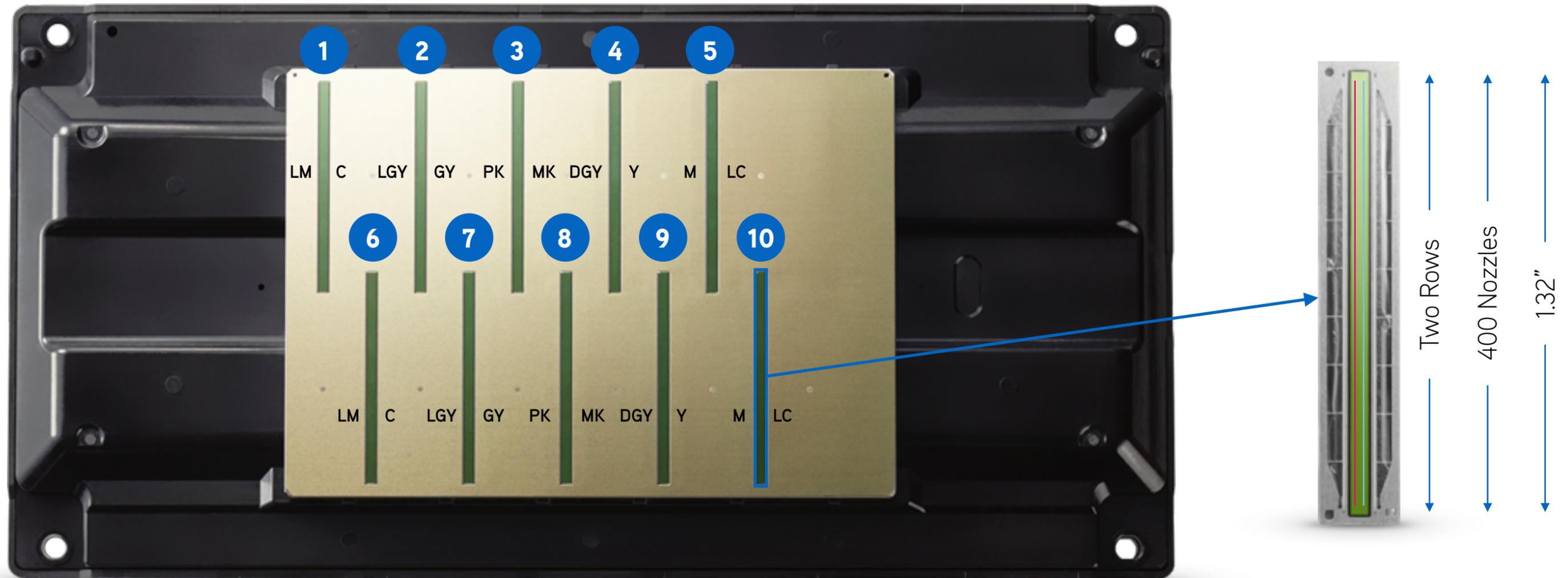
- Both Photo and Matte Black inks have a dedicated set of nozzles

■ Automatic Print Head Maintenance

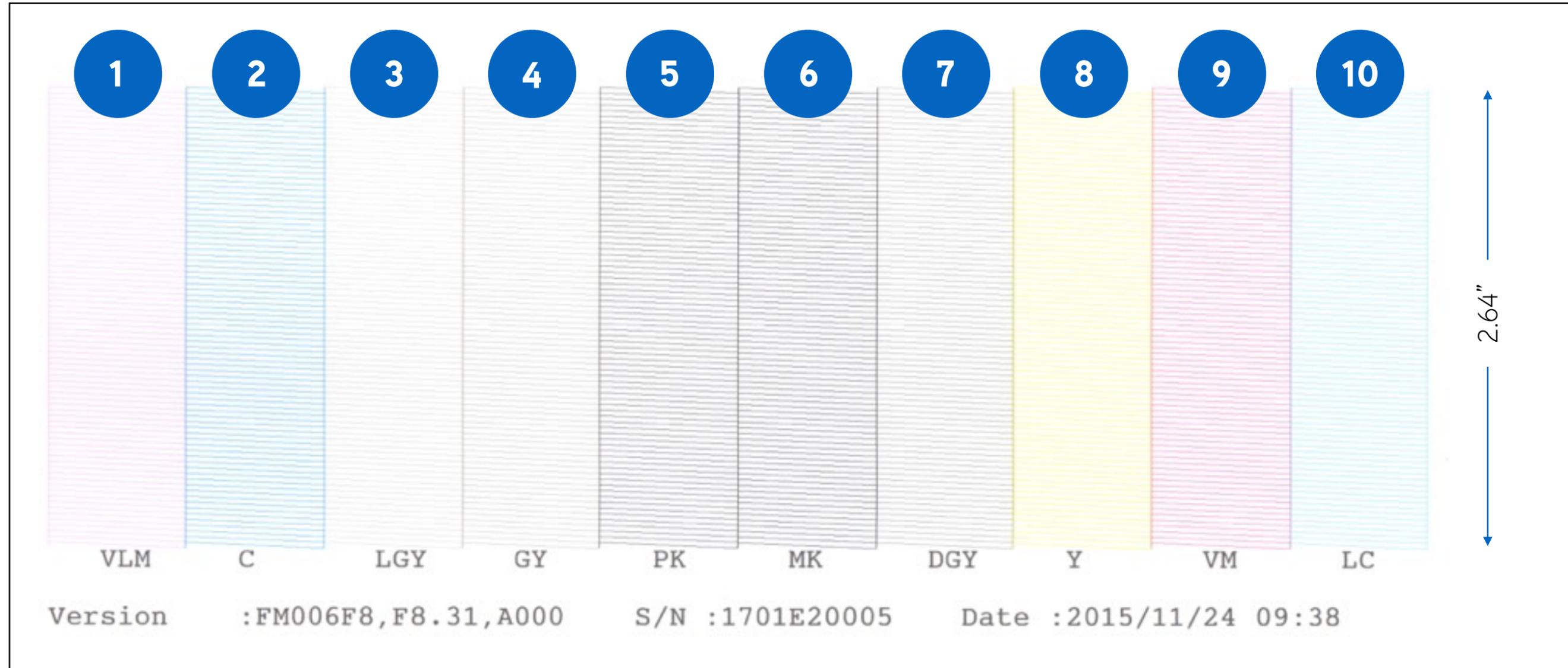
- New Nozzle Verification Technology automatically verifies and cleans nozzles
- Extremely fast nozzle verification without the use of media



Actual Ink Droplet on Paper
Magnified 150x



The PrecisionCore microTFP print head is developed using 10 individual PrecisionCore “blades”.
 Each “blade” has two rows - one for each color - using 400 nozzles each across a 1.32” width.
 When combined, the final print head array prints using 800 nozzles per color over a 2.64” print width.



Actual Nozzle Check Pattern Printed on Paper



Printing Performance

Epson SureColor P20000

	16" x 20" (Centered on 17" x 22")	20" x 30" (Centered on 24" x 34")	40" x 60" (Centered on 44" x 64")
600 x 600 SMW HS	1:04	1:49	5:24
1,200 x 1,200 HS	2:09	3:40	10:52
2,400 x 1,200 HS	3:17	5:33	16:30

Print times are based upon start of print head movement over the page to drop ink – Stop time based on printhead moving to park position

Test Images printed on Epson Premium Luster Photo Paper (260) using a standard ICC color managed workflow via Adobe® Photoshop®

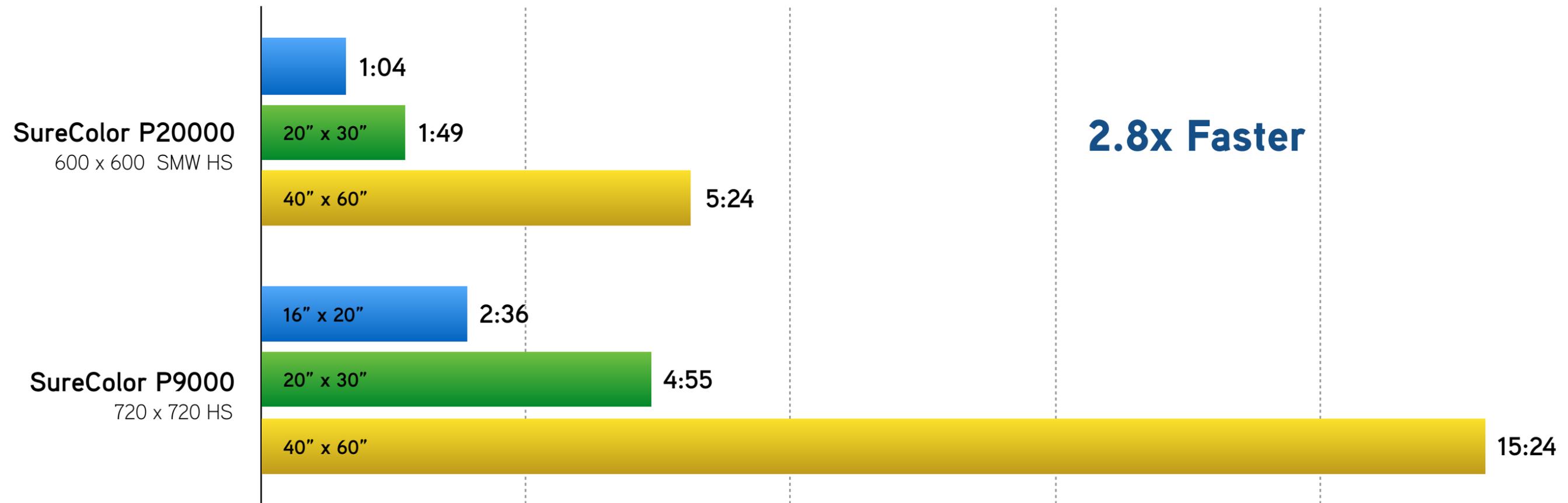
HS = High-Speed Mode (Bi-Directional Print Mode)

Print speeds are shown in min:sec



Printing Performance

SureColor P20000 vs. SureColor P9000

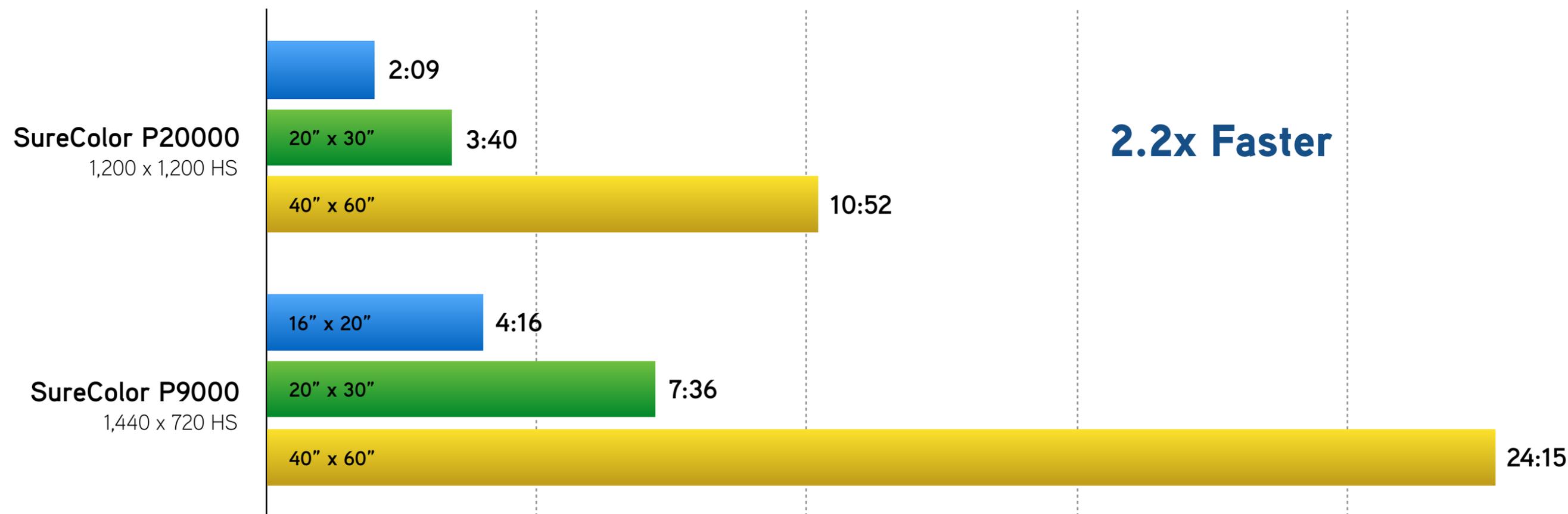


Print times are based upon start of print head movement over the page to drop ink – Stop time based on printhead moving to park position

Test Images printed on Epson Premium Luster Photo Paper (260) using a standard ICC color managed workflow via Adobe® Photoshop®

HS = High-Speed Mode (Bi-Directional Print Mode) SMW = Super MicroWeave Move

Print speeds are shown in min:sec



Print times are based upon start of print head movement over the page to drop ink – Stop time based on printhead moving to park position

Test Images printed on Epson Premium Luster Photo Paper (260) using a standard ICC color managed workflow via Adobe® Photoshop®

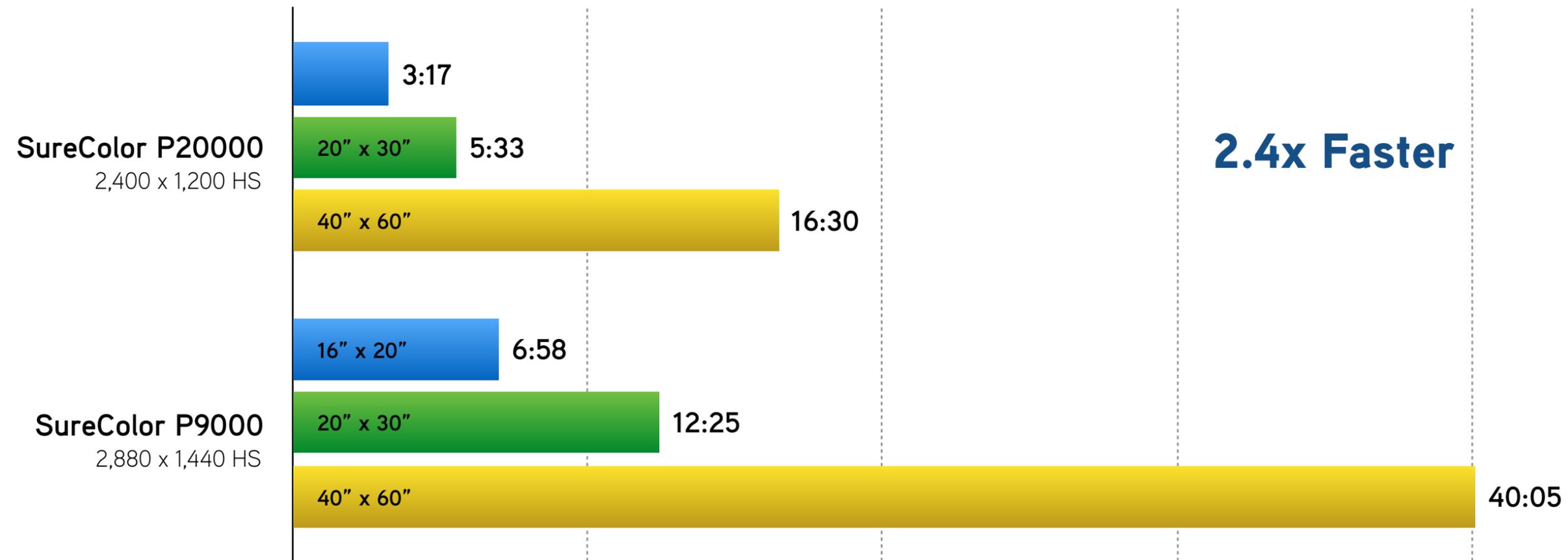
HS = High-Speed Mode (Bi-Directional Print Mode) SMW = Super MicroWeave Move

Print speeds are shown in min:sec



Printing Performance

SureColor P20000 vs. SureColor P9000



Print times are based upon start of print head movement over the page to drop ink – Stop time based on printhead moving to park position

Test Images printed on Epson Premium Luster Photo Paper (260) using a standard ICC color managed workflow via Adobe® Photoshop®

HS = High-Speed Mode (Bi-Directional Print Mode) SMW = Super MicroWeave Move

Print speeds are shown in min:sec



Advanced Media Handling

Newly Developed Media Feeding Technology

■ Realtime Media Adjustment & Feedback System

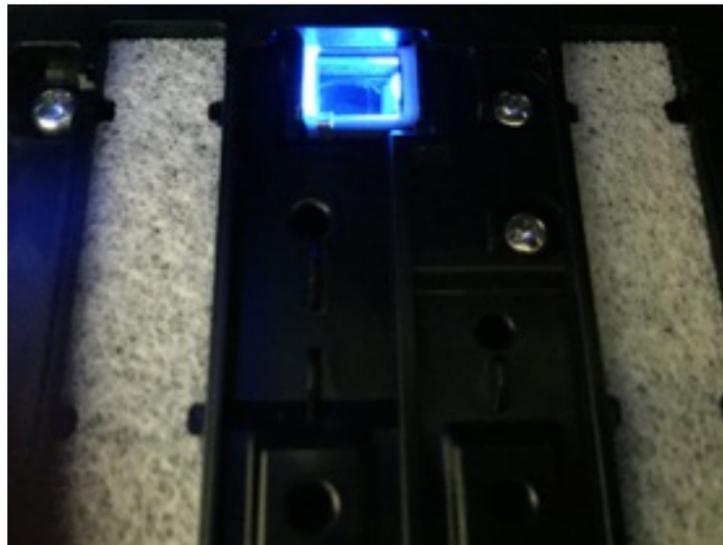
- Built-in CMOS sensor photographs the back-side of the media in realtime
- Sub-Pixel Matching Technology is used to identify differences in the photographs
- A pattern recognition algorithm is then used to precisely move the media

■ Media Inductive Roller System

- Unique roller system for intuitive and accurate media loading
- Automatically loads cut sheets without any skew
- Specially coated rollers protect the media surface from scratches

■ Unique Roll Media Skew Reduction System

- Additional rollers cancel the gravity from main roll feeder for consistent media feed
- Automatic slack take-up and back tension control to remove roll media skew



Actual CMOS sensor photographs the back-side of the media in realtime to help determine media movement.

Media Feed Accuracy is +/- 0.055mm

■ **Top-Loading Roll Media Support up to 64" Wide**

- Supports most photographic, fine art, and design media types up to 6.7" in diameter
- Spindle-Free media adapters with both 2" and 3" media core adjustments

■ **Accurate Roll Media Length Tracking**

- Automatic printing and reading of bar code to accurately estimate remaining length
- Automatically alerts operator if there's not enough media left to print the job

■ **BorderFree Printing for Many Popular Print Widths**

- 10" , 13" , 16" , 17" , 20" , 24" , 29" , 36" , 44" , 50" , 54" and 60"

■ **Built-in Automatic Rotary Media Cutter**

- Capable of smoothly cutting all photographic and fine art media types

■ **Optional Auto Take-up Reel System**

- Roll-to-Roll productivity





**New Cut Sheet Media Feeding System
is Ideal for Softer Fine Art Papers**

■ **Top Loading Cut Sheet Media Feeder**

- Simple and accurate loading of cut sheet media from 13" x 19" up to 64" wide
- Allows for a slight bend media path without requiring space behind the printer
- Automatic alignment and paper skew checking
- Provides for a safe media feeding path for the most delicate paper types

■ **Single Sheet Front Straight-Through Poster Board Media Feeder**

- Simple front feeder for poster board media up to 1.5 mm thick
- Ideal for printing directly to virtually any thicker media type
- Supports single sheets from 17" wide up to 64" wide



Usability Features

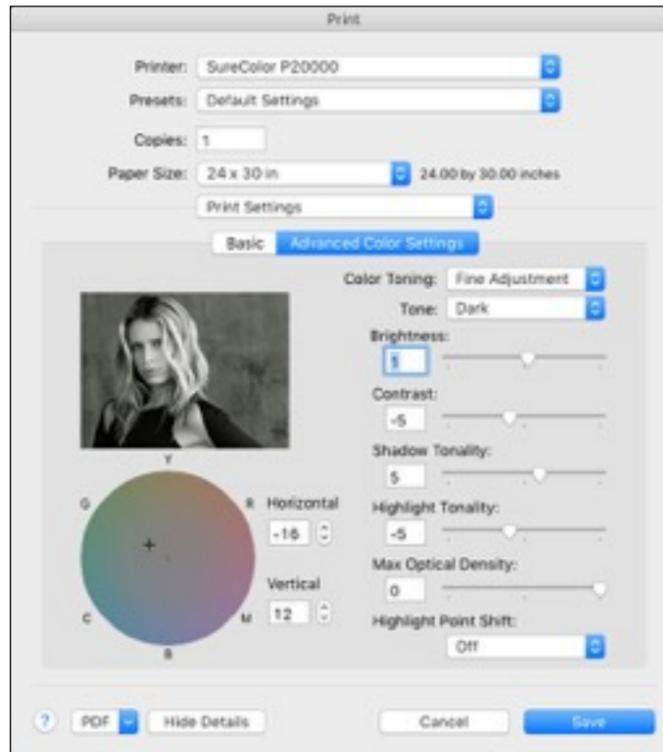
Professional Photographic Drivers

Internal 320 GB Print Server

Optional Internal Adobe PostScript 3 Print Server

Optional Auto Take-up Reel System

Warranty & Customer Support Programs



**Advanced Black & White Driver Dialog
Complete Control of Grayscale Toning**

Apple Macintosh OS 10.10.4 Shown

■ Professional Photographic Drivers

- True 16-bit compatible drivers
- Apple® OS X 10.7 or higher
- Microsoft® Windows® 7, 8 and 10 (32-bit & 64-bit)

■ Unique EPSON PrecisionDot™ Screening

- Advanced form of math to determine dot size and placement
- Fixed and three-level variable-sized droplet technology for outstanding print quality
- Accurate blends and tonal transitions

■ Advanced Black & White Printing Technology

- Unique screening algorithm for producing professional black & white prints
- Utilizes our four-level black system to optimize black & white print quality
- Some of the world's greatest black and white prints have been produced using this driver technology



Standard Internal Print Server

320 GB (Included)

■ **Internal 320 GB Print Server**

- Can be quickly removed and stored for added security
- Quickly off-loads print data from multiple workstations simultaneously
- Advanced security with IPsec and IEEE802.1x authentication protocols

■ **Intuitive User Interface Options**

- Manage jobs at the printer control panel, or remotely via a built-in web interface
- Capable of being fully managed from virtually any smart phone or tablet

■ **New Printer Driver Options**

- Print & Save – fast spooling with reprint functionality
- Print Only – fast spooling without job storage
- Save Only – holds jobs for printing at a later time
- Print after Transmission Completed – perfect for wireless and slow connections

■ Optional Internal Adobe PostScript 3 – 320 GB Print Server

- Can be quickly removed and stored for added security
- Quickly off-loads print data from multiple workstations simultaneously
- Advanced security with IPsec and IEEE802.1x authentication protocols

■ Intuitive User Interface Options

- Manage jobs at the printer control panel, or remotely via a built-in web interface
- Capable of being fully managed from virtually any smart phone or tablet

■ True Adobe PostScript 3 Workflow Support

- Direct hot folder batch processing
- Supports Secure PDF file printing
- Fully compatible with the latest Adobe Creative Cloud software suites
- Dedicated hardware Adobe PostScript 3 rendering engine for outstanding performance



Optional Internal Print Server
with Adobe PostScript 3 Controller

320 GB

■ Optional Automatic Take-up Reel System

- Roll-to-Roll Productivity to 64-inch wide
- Unattended Printing
- User Installable, Upgrade at Anytime
- Forward and Reverse Wind Settings



Optional Automatic Take-up Reel

■ Standard 1-Year Epson PreferredSM Limited Warranty

- Free technical support Monday thru Friday
- If required, free full unit replacement - includes free shipping
- Covers the printer, genuine Epson optional accessories, and software

■ Optional 1- or 2-Year Epson Preferred Plus Premium Service and Support Plans

- Extends same Epson coverage when the standard limited in-box warranty ends
- Can be purchased at any time while still under an Epson Preferred Limited Warranty
- Provides up to 3-years of complete coverage from Epson

Limitations apply. See service program for details.





■ Superior Print Quality at Production-Level Print Speeds

- More sellable output – faster than virtually any other form of photographic printing

■ Epson UltraChrome[®] PRO Ink Technology

- Outstanding color, black density, and print permanence
- Four-level gray system for accurate transitions with very low grain
- Lower cost-per-ml with more efficient ink use for a lower total cost of operation

■ Epson PrecisionCore[®] microTFP[®] Print Head

- All-new print head technology for superior print speed and image quality
- Automated nozzle verification and recovery for higher reliability

■ Advanced Media Feeding Systems

- Realtime media adjustment and feedback system for skew-free media loading
- Unique media inductive roller system for accurate media movement



Specifications are Subject to Change Without Notice

Epson, MicroPiezo, PrecisionCore, PrecisionDot, UltraChrome, SureColor, TFP and microTFP are trademarks or registered trademarks.

Epson Preferred is a service mark, and EPSON Exceed Your Vision is a registered logo mark of Seiko Epson Corp.

All other product brand names are trademarks and/or registered trademarks of their respective companies.

Epson disclaims any and all rights to these trademarks.

© Epson America, Inc. 2016 MR/LJK January 2016