BenQ
Enjoyment Matters

BenQ ProGraphi Series
Color Management Monitors

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BenQ PG Series
Color Management Monitors

Color proofing does not have to be a beast of a job. The strict color quality expectations of art, design, photography and print-making professionals are a constant challenge for printers. As a result, quality and accuracy are necessary to efficiently manage the proofing process.

Traditionally, soft and hard proofing have been standard steps in the color proofing process. But with better technology available, some projects are being produced with soft proofing alone. BenQ understands that monitor color accuracy is the key factor in reliable soft proofing.

BenQ tests its monitors against standard printing color charts and real printing house results to explore which aspects of coloration are the most challenging – including tones with high Delta E values. Among professional color monitors, BenQ PG series monitors stand out for their color reproduction, with Delta E lower than two.

Printing-certified BenQ PG series monitors will help you tame soft proofing with dependable results. You will hear the roar of approval print after print.
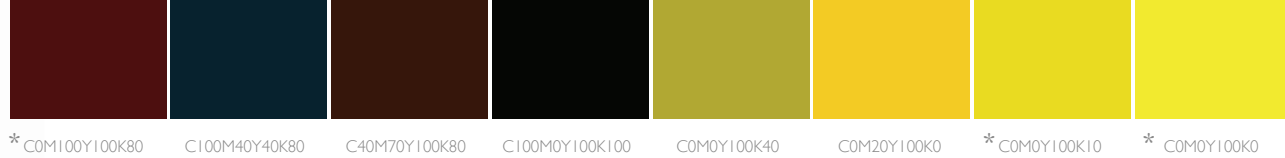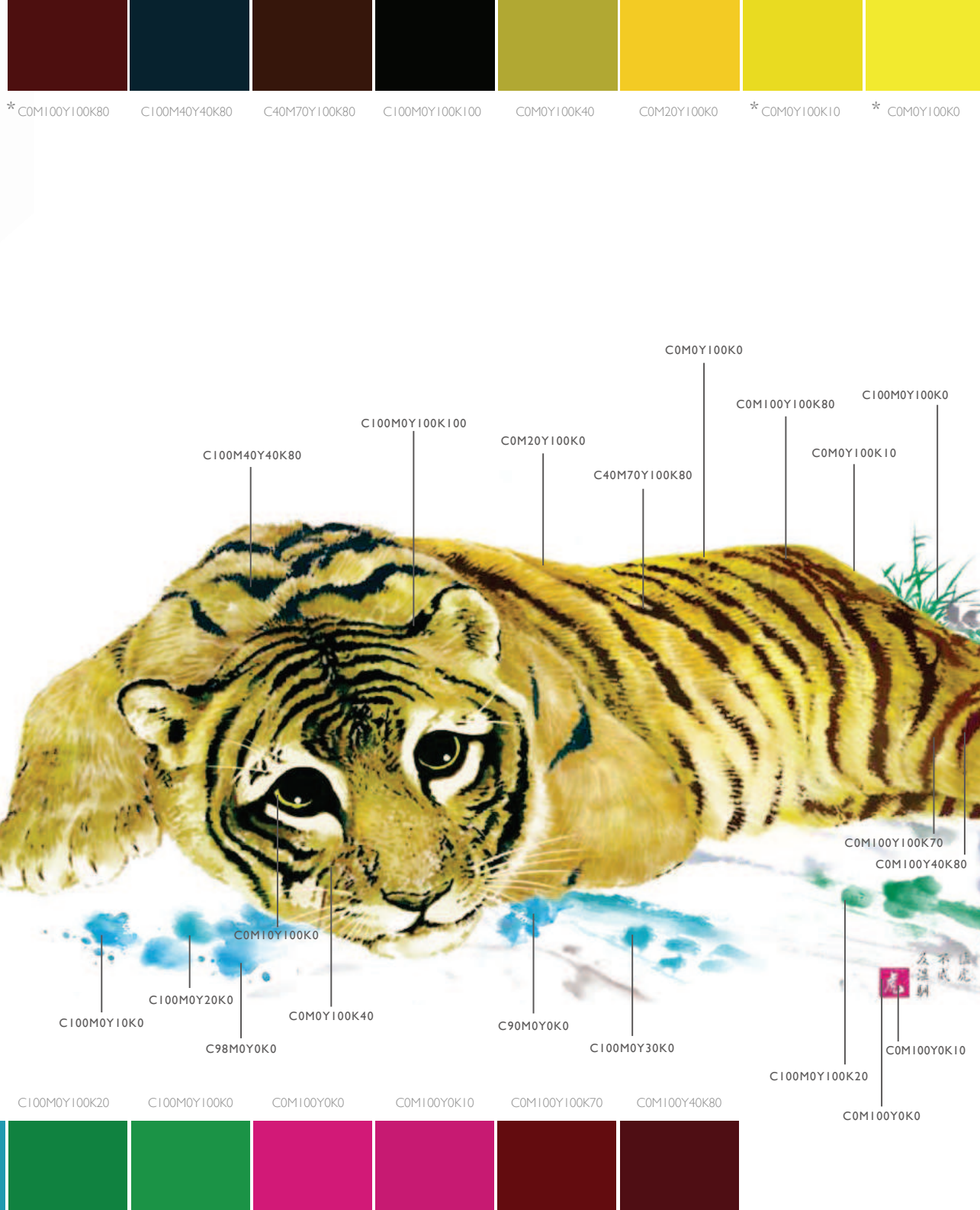
C0M0Y100K0
C0M100Y100K80
C100M0Y100K0
C100M0Y100K100
C0M100Y100K80
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C100M0Y10K0
C98M0Y0K0
C100M0Y30K0
C0M100Y0K10
C100M0Y100K20
C0M100Y0K0

Guaranteed
Display Accuracy

Accurate Colors

Certified Print-Quality Display

BenQ PG series monitors are Printing-Industry Color Certified (G7/others) according to international ISO standards that improve design and proofing efficiency and lower total cost of ownership. On-screen images have never been so true to the final printed image. Finally, a monitor series that is print-perfect.

Excellent Adobe RGB and CMYK Coverage

BenQ PG series monitors cover 100% CMYK color space and 99% Adobe RGB color space, ensuring that the truest red roses, blue skies and green grasses can be reproduced with accuracy.

- CMYK
- sRGB
- Measured values
- Adobe RGB
- sRGB White
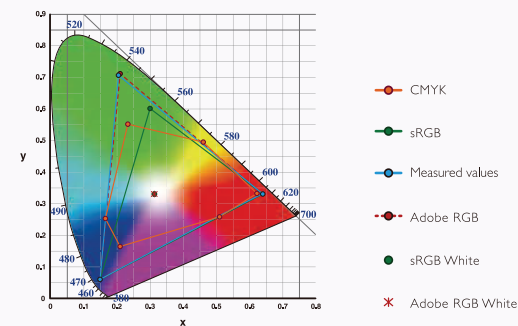- Adobe RGB White

Factory Calibration Report

Included with each BenQ PG series monitor is a detailed verification conducted on site on each individual monitor. The report validates the performance of the monitor in terms of Brightness uniformity, Delta E and Gamma curve. You can trust the color right out of the box.

Expand the Spectrum on a 10-bit Panel

Enjoy the smoothest shading and color transitions in natural gradations on a 10-bit display panel. A 10-bit panel can create more than one billion colors – 64 times the amount of color available on an 8-bit panel – to guarantee silky smooth gradation. The PG series also includes 14-bit processing capability, generating crisper definition and improved gray-level distinction, allowing you see true-to-print natural shades before they get printed.

10-bit Panel   Typical Panel
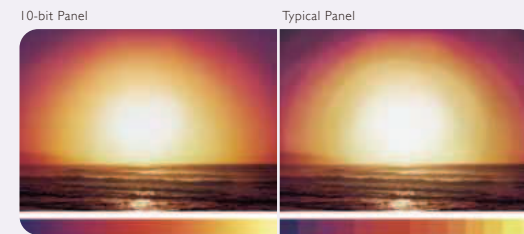
Accurate Colors

Predictable Colors with 14-bit 3D LUT

With the 14-bit 3D Look Up Table (LUT), monitors can display the most accurate color mixture. 14-bit 3D LUT improves RGB color blending accuracy, resulting in impeccable color and gray tone reproduction.
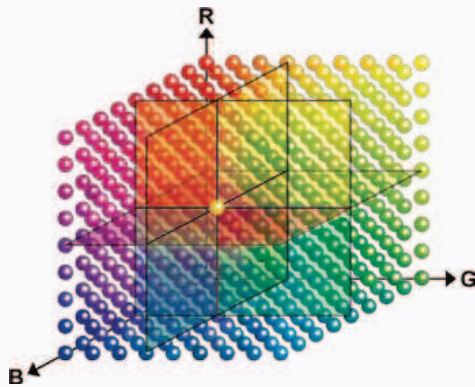
Pixel-Perfect Color Authenticity

BenQ PG series monitors feature Delta E≤2 to ensure color accuracy throughout project workflow. Delta E≤2 not only offers viewers the truest impression of the original image, it also saves time and money by creating reliable colors the first time, every time.

BenQ PG Series Monitor

Typical Monitor

Hardware Calibration

With the Hardware Calibration Function, you can adjust the 3D LUT in the monitor directly, providing smoother and more consistent color tones. Keep the image consistent with the original, without being affected by graphic settings.

Brightness Uniformity Function

The Brightness Uniformity Function enables PG series monitors to maintain a consistent image across the entire display. By balancing brightness and chromaticity the Brightness Uniformity Function offers a more consistent viewing experience.

Consistent Brightness
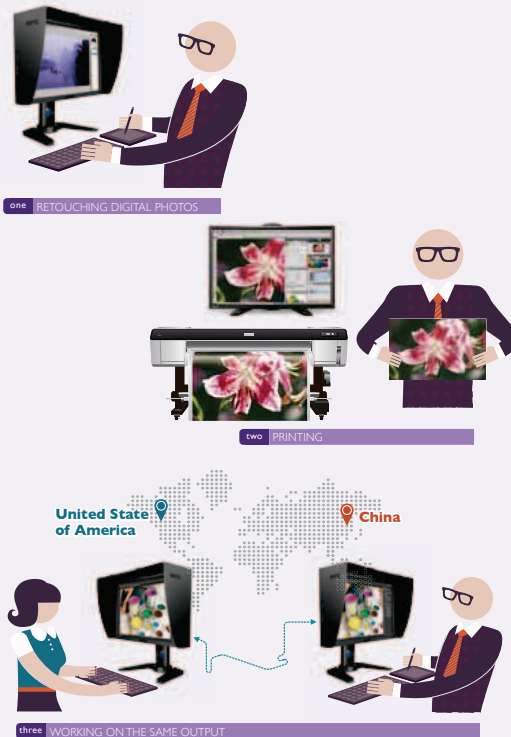

Inconsistent Brightness

Color Refining
Software

User-Friendly
Design

Palette Master Mixes Precise Colors

Joint-developed with X-rite, the global leader in color science and technology, Palette master is bundled software that can validate calibration according to G7/others criteria, making it easy to verify for international printing standards. A user-friendly interface and a variety of adjustment parameters make it a snap to set a customized profile for any job.
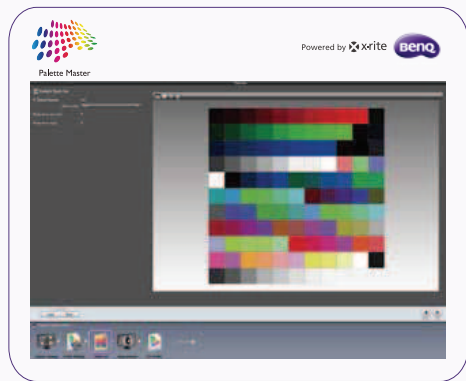
Using Palette Master calibration utility brings consistency and color accuracy that will always deliver stunning results to your PG series monitor.

Powered by x-rite BenQ

Palette Master

one RETOUCHING DIGITAL PHOTOS

two PRINTING

United State of America   China

three WORKING ON THE SAME OUTPUT

Preset Modes

Preset modes – Standard, Adobe RGB, sRGB, Illumin. A, D50, D65 and Eco – make it easy to get a suitable viewing condition for any project. In Calibration Mode, users can save calibration results, saving time when switching between different calibration targets. Custom Mode can be employed for specialized color tuning.

Mode: Standard

Display	Color Mode	Standard
Color Adjustment	Brightness	Adobe RGB
Ergonomics	Contrast	sRGB
Eco	Sharpness	Illumin. A
PIP/PBP	Color Temp.	D50
System	Gamma	D65
	Color Gamut	Eco
	Hue	Calibration I

Dynamic Connectivity

A selection of input ports allows users to switch between different input devices swiftly. PC users can connect a PG series monitor to a PC via DVI-D, HDMI or DisplayPort, while Mac users can utilize a Mini Display Port. A USB3.0 port/card reader is also available for easy file transfer.

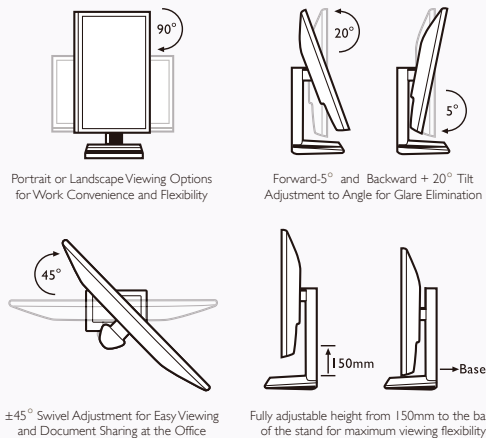A B   C D E F G H   I

(**A**) AC Switch   (**D**) Mini DisplayPort   (**G**) HDMI
(**B**) Power   (**E**) DisplayPort   (**H**) D-Sub
(**C**) Headphone Jack   (**F**) DVI-D   (**I**) USB-IN

User-Friendly
Design

Specification

Ergonomic Design

With a sturdy stand and a wide adjustable range, BenQ PG series monitors with an Ergo Base can satisfy any desktop configuration. Good working ergonomics increases comfort and efficiency by decreasing distraction and fatigue. The On Screen Display can even rotate automatically for landscape or portrait use.

Portrait or Landscape Viewing Options for Work Convenience and Flexibility

Forward-5° and Backward + 20° Tilt Adjustment to Angle for Glare Elimination

±45° Swivel Adjustment for Easy Viewing and Document Sharing at the Office

Fully adjustable height from 150mm to the base of the stand for maximum viewing flexibility

Shading Hood

The shading hood keeps the distracting glare away from the user by creating a bonnet around the display. Reduced glare and ambient light ensure the most accurate color appearance.

PG2401PT

Panel	
Panel Type	IPS
Back Light Unit	LED
LCD Size	24.1"W
Aspect Ratio	16：10
Native Resolution (max.)	1920×1200
Display Area (mm)	518.40×324.00
Pixel Pitch (mm)	0.27×0.27
Grayscale Tones	DisplayPort, HDMI：1024 tones DVI, D-Sub：256 tones
Display Colors	DisplayPort, HDMI：1.07 billion from a palette of 4.4 trillion DVI, D-Sub：16.77 million from a palette of 4.4 trillion
Brightness (typ.)	350 cd / m2
Recommended Brightness for Calibration	120 cd / m2 or less
Contrast (typ.)	1000：1
Viewing Angle (L/R; U / D) (CR>=10)	178 / 178
Response Time	5ms (GtG)
Color Gamut Coverage (typ.)	99% Adobe RGB
Audio/Video Inputs/Outputs	
Input Connector	D-Sub / DVI / HDMI / DisplayPort / Mini DisplayPort / Headphone Jack / Card Reader
USB Hub	USB 3.0 (2*downstream, 1*upstream)
Digital Scanning Frequency (H / V)	H：30~83k Hz V：50~76 Hz
Special Feature	
Preset Modes	Standard / Adobe RGB /sRGB / illumin A / D65 / D50 / Calibration / Custom
Accurate Color	14 bits 3DLUT / HW Calibration / Delta E≤2 (avg) / Brightness Uniformity
Eco Sensor	Yes
Eye Protect Sensor	Yes
Touch Control Key	Yes
AC Switch	Yes
OSD Language	17 languages

Certification	
GRACoL Grade #1 by IDEAlliance	Yes
Windows® 7 Compatible	Yes
Windows® 8 Compatible	Yes
MAC Compatible	Yes
Physical Dimension	
Dimensions (H×W×D mm) (without Shading Hood)	542.6×555.4×254
Dimensions (H×W×D mm) (with Shading Hood)	548.9×561.8×337.4
Dimensions with Wall Mount (H×W×D mm) (without Base) (without Shading Hood)	365.5×555.4×74.6
Dimensions with Wall Mount (H×W×D mm) (without Base) (with Shading Hood)	371.8×561.8×214.9
VESA Wall Mounting (mm)	100×100
Pivot	90°
Swivel (left / right)	45° / 45°
Tilt (down / up)	-5° / 20°
High Adjustment (mm)	150
Net Weight (kg) (without Shading Hood)	7
Net Weight (kg) (with Shading Hood)	7.93
Gross Weight (kg)	12.4
Power	
Power Requirements	AC 100 - 240V, 50 / 60 Hz
Ver. Frequency (Hz)	50~76
Video Bandwidth (MHZ)	205MHz
Power Supply (90~264 AC)	Built-in
Power Consumption (Base on ENERGY STAR)	30.9 W
Power Consumption (On mode)	74.6 W
(Power saving mode)	< 0.5 W
Power Consumption (Off mode)	< 0.5 W
Included Accessories	
Signal Cable	VGA, DVI, Mini DisplayPort, USB 3.0 cable
Others	Factory Calibration Report / Shading Hood / Palette Master Software