

Design for fun, perfect for life.



BenQ LCD Monitors  
2008 Family Brochure

**BenQ**  
Enjoyment Matters

# BenQ LCD Monitor

## *Putting excellence on display*

*BenQ has created award-winning models for both traditional monitor tasks like displaying documents and online content, as well as for specialized applications such as graphic designing and gaming. The design of BenQ monitors reflects a thorough consideration of just how they will be used. This attentiveness to actual user needs and preferences extends not only to technical specifications, but also to the extra features and design touches that will make you think your BenQ monitor was created especially for you.*



## Broaden Your View with Widescreen

### Multi-tasking at Work

#### Side by side browsing (Two full-pages)

- Windows Office applications
- Different internet web pages
- Operation analytic programs
- Documents comparisons



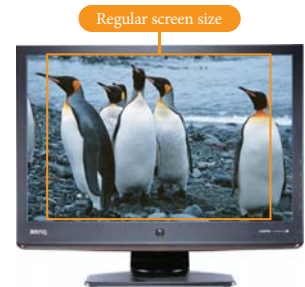
### Efficient Connectivity

To enhance productivity, the combination of a widescreen monitor and a widescreen laptop can not only increase your working space but also save the time for resolution adjustment.



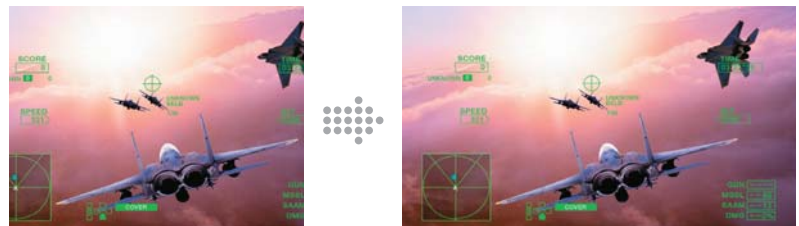
### Enjoying Wider Entertainment

Widescreen LCD can reduce black bars and maximize the picture size to provide a more compatible format with your favorite blockbusters which mostly are originally wide format.



### Enlarge Your Gaming Field

A broader playing area can be displayed in wide format LCD which brings you a more exciting gaming experience!



## HDMI -A connection to IT and CE World!

The high-Definition Multimedia Interface (HDMI) is an industry-supported, uncompressed, all-digital audio/video interface. HDMI provides connections in any compatible CE or IT devices, such as a set-top box, a DVD player, a monitor or an A/V receiver, DTV as an example.



### Uncompromising Quality for Ultimate Enjoyment



**Full HD 1080p** : HDMI transfers uncompressed digital video for the highest, crispest image quality.

**Audio** : HDMI supports multiple audio formats, from standard stereo to multi-channel surround-sound.

**Ease-of-use** : HDMI combines video and multi-channel audio into a single cable, eliminating the cost, complexity, and confusion of multiple cables currently used in A/V systems.

**Intelligence** : HDMI supports two-way communication between the video source (such as a DVD player) and the DTV, enabling new functionality such as automatic configuration and one-button play.

**HDCP support** : HDMI provides not only high quality video and audio signals, but prevents these digital content from piracy.



## Created for the human eye

Senseye® Monitor Engine enhances display performance according to the way human view/experience images by distinct usage or application. Composed of three advanced image processing units (color management, contrast enhancement and sharpness enhancement), the Senseye Monitor Engine dynamically enhances picture quality. And a simple promise of higher definition visuals that are deeper, richer and clearer.



### Color Management

Enables more natural and vibrant color representation

#### Skin Tone Correction



Conventional

Senseye

### Sharpness Enhancement

Automatically eliminates jagged edges

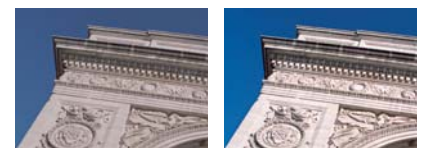


Conventional

Senseye

### Contrast Enhancement

Enhances details in darker and brighter images



Conventional

Senseye

## Advanced Senseye® technology

Since 2006, BenQ LCD monitors have offered two extended Senseye® technology application modes-Senseye+photo and Senseye+game. The former provides an easy-to-use tool for achieving consistent color across different devices, while the latter provides two fine-tuned presets (racing and action) for the best gaming experience without tedious manual adjustments.

### Senseye Development



## Senseye+photo - sRGB Mode

Senseye+photo Technology offers a variety of preset modes that provide instant settings for different usage scenarios, including Standard, Dynamic, Movie, Photo and sRGB mode. The sRGB mode ensures color accuracy on-screen for precise color editing to reflect accurate colors that are compliant with the industry-standard sRGB color space and ensures color consistency when connecting to sRGB-compliant devices such as digital camera, scanner and printer.



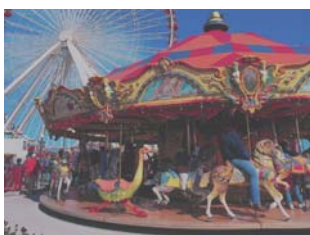
## Senseye+game - Racing & Action Game Modes

The Senseye+game image enhancement technology give consumers the power to configure gaming experiences and engage them into the heart of the game. Choose from pre-programmed gaming modes for the best visual experience that suit your gaming style.



### Action Game Mode

- Usage Scenario: Action Game Playing
- Focus on brighter & darker scene, keep color balance without over saturated
- Improve contrast, and present mid-saturated color.



Normal



Action Game Mode

### Racing Game Mode

- Usage Scenario: Racing Game Playing
- Focus on neutral scene display or bright scene
- Middle contrast with middle saturated color display



Normal



Racing Game Mode

## Advanced Motion Accelerator (AMA) Breaks the Motion Barrier

BenQ's exclusive Advanced Motion Accelerator (AMA) technology accelerates the rotational speed of liquid crystals in the screen panel by increasing the voltage, making it possible to shorten the gray-to-gray response time to 2ms. With this breakthrough, the BenQ LCD Monitors deliver performance comparable to that of a CRT monitor, for clearer, sharper images with no lagging or blurring when playing PC games or watching videos.



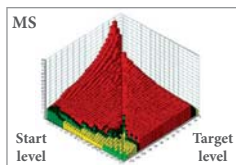
AMA off  
Ghosed blurry image



AMA on  
No blurry image

### How AMA enables crisper moving images

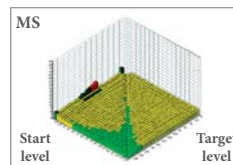
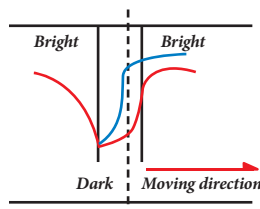
Typical response time (black-to-white or on/off) for LCD monitors refers to the time that it takes a pixel to change from white to black (or equivalently, black to white). Most real-world applications (such as gaming or movie) however utilize colors in different levels of gray. That's why even if the reaction time of white to black (on/off) is fast; it doesn't guarantee a fast reaction time on games or moving images. The gray-to-gray response times are more indicative of real world performance, where the response time is a measure of how quickly a pixel can change from one shade of gray to another, and back. By using AMA technology, the gray-to-gray response times across all color scales will be greatly reduced and able to ensure crystal clear images for the most demanding video applications.



without AMA=Ave. 25ms



Slow LCD response without AMA



with AMA=Ave. 8ms



Fast LCD response with AMA

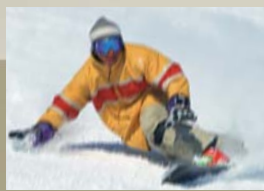


## A new era in dynamic video processing technology.

BenQ PerfectMotion Technology heralds a new era in dynamic video display processing technology with the new standard of LCD monitor industry - Motion Picture Response Time (MPRT). PerfectMotion Technology effectively eliminates ghosting and motion blur around screen edges - resulting in a clearly superior viewing experience regardless of the video content.



Original Image



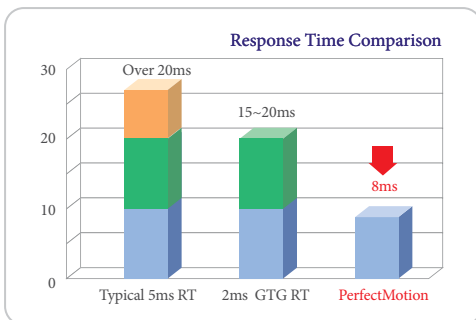
Without PerfectMotion



With PerfectMotion

### MPRT (Motion Picture Response Time)

MPRT (Motion Picture Response Time), promoted by VESA (Video Electronics Standards Association), to define the real response time which can truly reflect the human visual effect. The MPRT of a normal LCD monitor with 5ms typical (on and off) response time will be above 20 ms. With AMA Technology (GTG response time), the MPRT will be around 15-20 ms. With PerfectMotion Technology, the MPRT will be below 12 ms or even better!

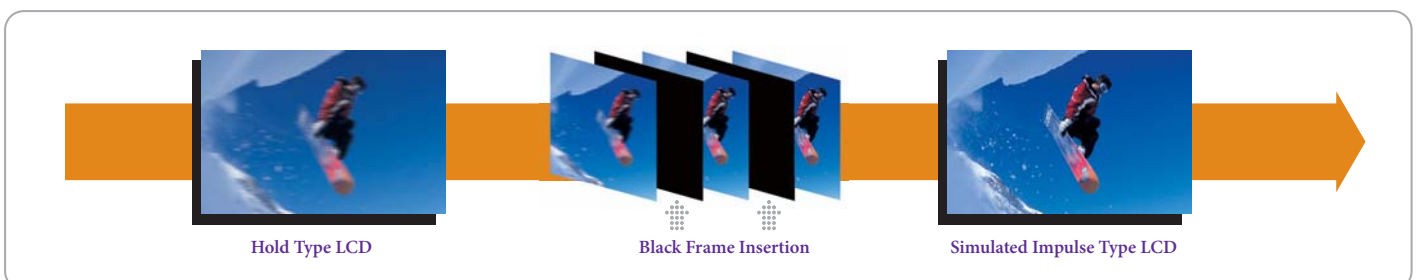


BenQ PerfectMotion Technology takes a two-step process to counter ghosting effects and motion blurs: First, PerfectMotion employs BenQ's exclusive Advanced Motion Accelerator (AMA) Technology to accelerate the grey-to-grey (GTG) response time. Second, it uses the Simulated Pulsed Driving technology to eliminate the ghosting effects and motion blurs caused by human eye's resistance of vision.



### SPD (Simulated Pulsed Driving) Technology

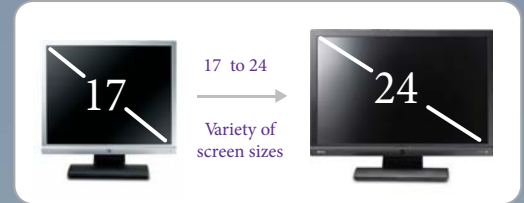
SPD inserts a black frame in between motion frames to make your visual experience clearer. That's because the human eye needs a rest. SPD predicts and imitates the response of the human eye to animated visuals to create images that are as stable and clear.



## Monitors for various needs

### Broad range and compatibility

The G Series provides a wide variety of screen sizes from 17-inch to 24-inch wide, also a choice of models with digital/analog and analog-only inputs. The new HDMI interface is supported on the 24" wide model - G2400W. And the entire G Series gives you wide viewing angles, making it easy to share what's on screen with colleagues or classmates.



17  
Inch

19  
Inch

19  
Wide  
Inch

20  
Wide  
Inch

24  
Wide  
Inch

senseye+photo

5ms

bezel  
Slim



### Made for the way you work- Senseye+photo Technology

BenQ's Senseye® technology offers four optimized settings - Standard, Dynamics, Movie and Photo - for different usage scenarios; the enhanced Senseye+photo technology provides sRGB mode which transmits consistent colors through the sRGB color gamut, providing consistent and accurate color reproduction. With Senseye+photo, the photos on the screen and on print outs will always be consistent in colors.





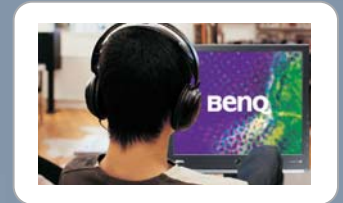
# E Series



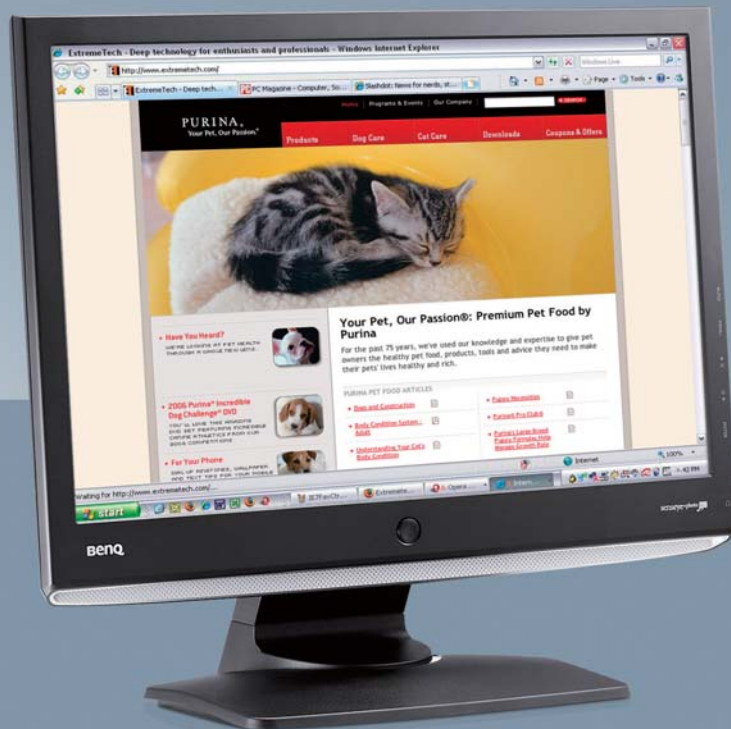
## Lighting Your Life

Made for multimedia

With the rich array of options for enjoying audio and video content both online and off, multimedia support is always a plus in a monitor. With BenQ's E Series you get elegantly integrated multimedia features in a remarkably affordable package. An E Series monitor is equipped with high-quality speakers that are artfully embedded inside, preserving the pristine appearance of the housing.



**17** Inch   **19** Inch   **19** Wide Inch   **20** Wide Inch   **22** Wide Inch   senseye+photo   5ms



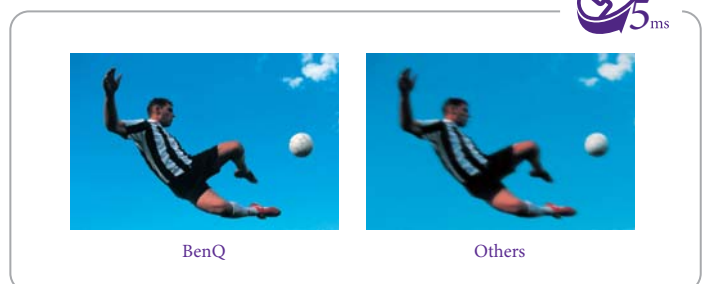
### Productivity-enhancing

Used with a notebook, the G & E Series can enhance your productivity by expanding the available workspace through their extended desktop feature. You can easily view multiple documents at once, or keep track of two projects simultaneously, allowing you to work more efficiently.



### Superior response time

The speedy 5ms response time gives the performance needed for any display application. Even fast-moving dynamic video is rendered with smooth, fluid motion and no ghosting or other artifacts for a beautifully realistic viewing experience.



# X Series



## Enjoy Life in the Fast Lane

High-Speed & Optimized Monitor for Extreme Gamers

The BenQ X series monitor is built for ultimate speed. It offers a world-leading 8ms MPRT (Motion Picture Response Time) so you can enjoy smooth-as-silk performance at adrenaline junkie speeds. The X Series has two built-in Senseeye+game modes, "Racing" and "Action", that anticipate movements, analyze images and adjust colors to offer you uninterrupted, heart-pounding enjoyment.



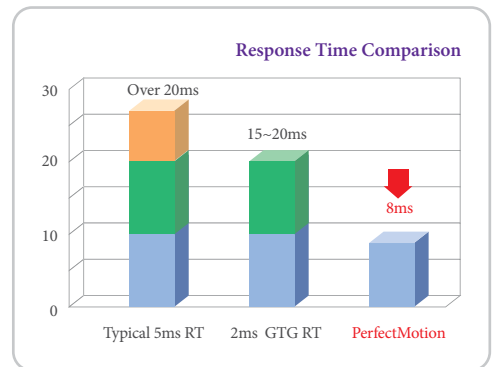
## With Tailored Gaming Modes - Senseye+game

BenQ's Senseye+game comes with two pre-set gaming modes that take you right into the action: Racing Game Mode tailored for high speed action and Action Game Mode for exciting fighting games. Whatever your game is, the X series was built with your needs in mind.



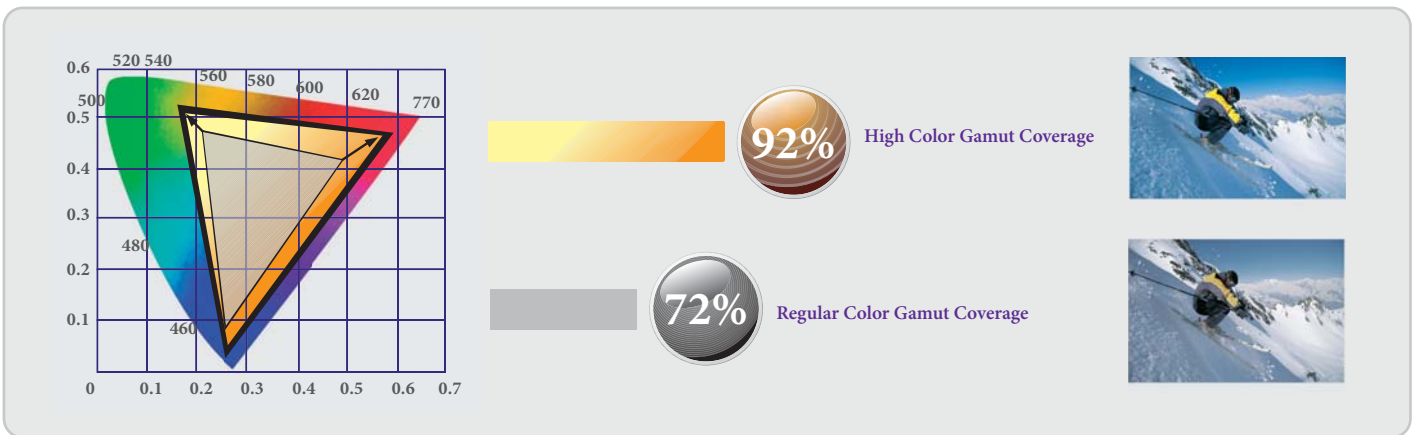
## Let the Games begin with PerfectMotion !

BenQ's exclusive PerfectMotion is a set of technologies that increases speed and partners with the human eye for maximum results. To break all records in response time, BenQ's PerfectMotion combines AMA & SPD technology. Together they deliver a blistering 8ms MPRT (Motion Picture Response Time) of the highest order which is even faster than 2ms GTG response time!



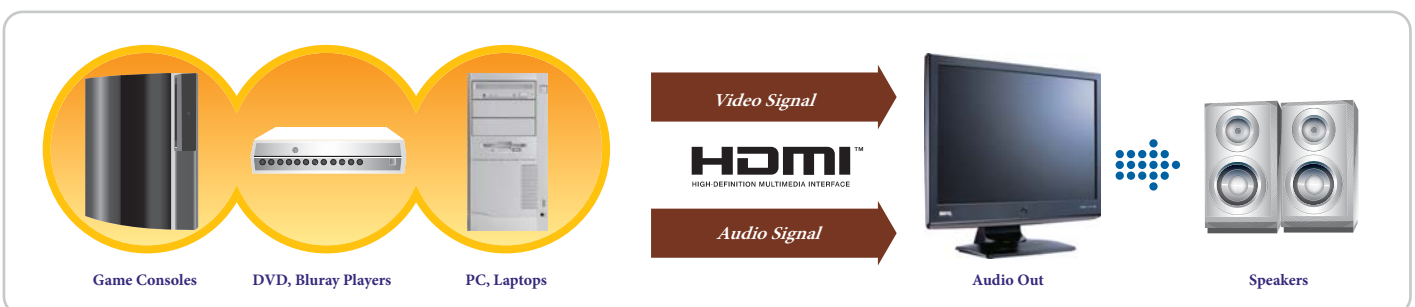
## It's Kaleidoscopic. A Color Gamut of 92%.

The X-Series is designed to deliver. Our color saturation is super high and the images we render are more colorful and vivid.



## HDMI for maximum versatility

Not only the outstanding visual quality, the 5Gbps digital bandwidth also transmits audio signals through your monitor. Better still, HDMI saves you the trouble of fumbling for connections on input devices (i.e. computer, game console or a DVD player) with a direct audio out plug from the X series.





# V Series-V2400W



## The Face of Modern Perfection

Built on the “Kinergy Design” philosophy, the BenQ V2400W makes a bold yet charming statement of modern simplicity. Born in the imagination and designed with kinetic beauty, the V2400W is the well-crafted face of modern perfection.



PERFECT  
CONTRAST



## A Feeling of Movement and Energy

Breaking through traditional thinking about symmetry, the BenQ V2400W's asymmetric base stand design brings an end to "staid" design. Now, you can capture the essence of beauty in stillness.

### Smooth Curves



BenQ boldly adapts to the new injection technology, RHCM (Rapid Heat cycle Molding) processing, in forming the sheer and glossy curved rear of the V2400W. Unlike traditional injection processes, RHCM can create an exceptional weld-free surface appearance.

### A Clever Touch of Luminous Delight



The luminous blue LED touch pads add a sense of balance to the V2400W design. Make the adjustments to your screen with the tip of your finger and get ready for a beautiful and modern visual journey of pleasure.

### The Perfect Linear Expression



BenQ introduces the world's slimmest 24" widescreen LCD monitor. Slenderized by its elegant contour lines, the V2400W features an ultra-thin width of only 24mm.

### AMA Designed for the Superme Visual Feast



AMA off



AMA on

### Experience Outstanding Picture Performance with PerfectContrast



Normal Contrast Ratio



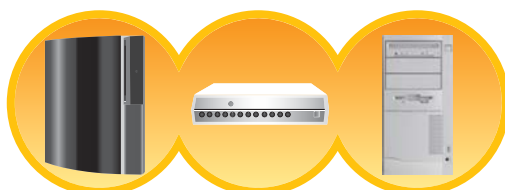
With PerfectContrast

### Enjoy Colors of the World with Senseye+photo Image Technology

sRGB mode provides consistent color via various devices.



### Perfect Your Audiovisual Enjoyment



Game Consoles

DVD, Bluray Players

PC, Laptops

Video Signal



HIGH DEFINITION MULTIMEDIA INTERFACE

Audio Signal



Audio Out



Speakers





## BenQ LCD Monitor



Market Product Name	X900	X900W	X2000W	X2200W	V2400W
Product Color	Black with electroplate silver chin	Black with electroplate silver chin	Black with electroplate silver chin	Black with electroplate silver chin	Glossy
LCD Size	19.0"	19.0"W	20.1"W	22.0"W	24.0"W
Resolution (max.)	1280x1024(SXGA)	1440x900(WXGA+)	1680x1050(WSXGA+)	1680 x 1050(WSXGA+)	1920x1200(WUXGA)
Display Area (mm)	376.3x301.0	408.2x255.1	433.4x270.9	473.7x296.1	518.5x324
Pixel Pitch (mm)	0.294	0.283	0.258	0.282	0.27
Brightness (typ.)	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>
Contrast (typ.)	800:1	800:1	1000:1	1000:1	1000:1 2500:1 (PerfectContrast)
Panel Type	TN	TN	TN	TN	TN
Viewing Angle (L/R;U/D) (CR>=10)	160 / 160	160 / 160	160 / 160	170 / 160	160 / 160
Response Time (Tr+Tf) typ.	5ms / 2ms(GTG)	5ms / 2ms(GTG)	5ms / 2ms(GTG)	5ms / 2ms(GTG)	5ms / 2ms(GTG)
MPRT (Motion Picture Response time)	No	No	No	8ms	No
Display Colors	16.7million	16.7million	16.7million	16.7million	16.7million
Color Gamut	72%	72%	72%	92%	72%
Hor. Frequency (KHz)	31~83	31~83	31~83	31~83	31~83
Ver. Frequency (Hz)	55~76	55~76	55~76	55~76	55~76
Video Bandwidth (MHZ)	25~135	25~135	25~135	25~135	25~135
Input Connector	D-sub / DVI-D	D-sub / DVI-D	D-sub / DVI-D / HDMI / Audio Out / Earphone	D-sub / DVI-D / HDMI / Audio Out / Earphone	D-sub / DVI-D / HDMI / Earphone
Power Supply (90~264 AC)	Built-in	Built-in	Built-in	Built-in	Built-in
Power Consumption (On mode)	40(max)	42(max)	40(max)	45(max)	55W(max)
(Power saving mode)	<2W	<2W	<2W	<2W	<2W
Kensington	Yes	Yes	Yes	Yes	Yes
CTN Dimensions (HxWxD mm)	490x483x142	515x455x140	549x485x133	591x508x142	651x560x255
Dimensions (HxWxD mm)	424.5x416x178	391.6x448x179.4	412x480x169	434x520x172	563.8x369.4x191.7
Dimensions with Wall Mount (HxWxD mm)	374.5x416x60	326.6x448x61	350x480x61	375x520x63	—
Net Weight (kg)	3.67	3.78	5.2	5.5	6.7
Gross Weight (kg)	5	5.1	6.4	6.8	7.5
<b>Special Feature</b>					
Senseye	Senseye+Game	Senseye+Game	Senseye+Game	Senseye+Game	Senseye+Photo
AMA	Yes	Yes	Yes	Yes	No
PerfectMotion	No	No	No	Yes	No
Vista	Premium	Premium	Premium	Premium	Premium
HDCP	Yes	Yes	Yes	Yes	Yes
Color Temperature	Reddish / Normal / Bluish / user mode	Reddish / Normal / Bluish / user mode	Reddish / Normal / Bluish / user mode	Reddish / Normal / Bluish / user mode	Reddish / Normal / Bluish / user mode
OSD Language	8 / 14 languages	8 / 14 languages	8 / 14 languages	8 / 14 languages	8 / 14 languages
Speaker	No	No	No	No	No
USB	No	No	No	No	No
VESA Wall Mounting	100x100mm	100x100mm	100x100mm	100x100mm	No
Pivot	No	No	No	No	No
Swivel (left/right)	No	No	No	No	No
Tilt (down/up)	-5/20	-5/20	-5/20	-5/20	-5/20
High Adjustment (mm)	No	No	No	No	No
Standard Accessories	VGA Cable	VGA Cable	VGA Cable	VGA Cable	VGA signal cable
Regulations	—	—	—	—	—

BenQ.com

Dealer's Stamp

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