

# 79" 4K Ultra HD Interactive Blackboard



## Touch-enabled Ultra HD Classroom Display with built-in whiteboard and document reader

At BenQ we are committed to empowering educators with the best interactive classroom display technology. Further, we believe that hardware and software play equally important roles in promoting effective learning. This belief has driven the development of our RP790 79" 4K resolution interactive blackboard displays. These innovative panels are designed to support teachers by bringing to the classroom a truly interactive solution that engages students and promotes collaborative learning.

### Engage Students

The BenQ RP790 touch interactive flat panel provides educators access to tools and resources never before available. With improved access to interactive online resources, teachers can now explain and illustrate subjects in ways students can more easily understand. This increases students' interest in the subjects at hand and improves the classroom experience.

### Readability Matters

BenQ RP Series interactive flat panels are designed to help educators make a natural transition from traditional lecture-style teaching to truly collaborative learning. The RP790 features a large 79" 4K Ultra HD resolution classroom-ready display with a high readability index of 55.8 DPI. It is large enough to easily replace existing blackboards, whiteboards and interactive whiteboards while providing crisp, bright text that is easy to read from anywhere in the classroom.

### Key Features

- Large 79" diagonal display is the perfect size for the classroom.
- 4K Ultra HD resolution displays 4 times the information of 1080p displays.
- Anti-glare tempered glass surface enables everyone to clearly see the screen from anywhere in the room.
- Low blue light technology reduces eye fatigue.
- Powerful 20-watt audio allows lessons to be easily heard.
- Built-in Android OS EZWrite feature provides instant whiteboard functionality.
- Multiple Display Administrator software allows centralized remote display management.

### Additional Features

- 10-point touch interactivity allows up to ten students to collaborate simultaneously on solving problems.
- Interactive touch response is exceptionally fast and smooth.
- Touch gestures similar to tablets and smartphones enable zooming, clicking and rotating images.
- Infrared interactive technology provides maximum accuracy and dependability.
- Built-in Office document reader allows PC-free teaching.
- Combined pen- and finger-touch capability enables easy interaction with any content.
- Has driver-free touch interactivity when connected to PC, Mac, Linux and Chrome OS.
- Can display files directly from USB flash drive or the cloud.
- Compatible with SMART Notebook software.
- On-screen display menu uses touch to control the display with no remote control needed.
- Has 5 HDMI inputs for today's digital sources.
- Image is easily viewed under any lighting conditions.
- LED backlight provides bright, durable display illumination lasting 30,000 hours.
- Has 3 VGA inputs for legacy analog sources.
- Supports USB 3.0 and 2.0 for maximum speed and reliability.

## SPECIFICATIONS

Panel	LCD Size	79"
	Light Source	Edge LED
	Active Area (mm)	68.49" x 38.52" / 1739.52mm x 978.48mm
	Resolution	3840 x 2160
	Aspect Ratio	16:9
	Brightness	400 cd/m <sup>2</sup>
	Contrast Ratio (typ.)	1,200:1
	Response Time (ms)	5ms
	Pixel Pitch	0.453 mm
	Frame Rate	120Hz
	Viewing Angle	178 degree (H) / 178 degree (V)
	Light Life	30,000 hrs (typ.)
	Color Gamut (x% NTSC)	72%
Power	Panel Bit	10 bit, 1073.7 M
	Voltage	100 V ~ 240 V, 50 Hz / 60 Hz
	Maximum (watt)	Maximum (watt) 250W
	Standby (watt)	< 0.5W
Touch	Power Off (watt)	< 0.5W
	Touch Points	10 points, simultaneous
	OS Supported	Win XP, Win Vista, Win 7, Win 8, Mac 10.6-10.10, Linux, Chrome OS 34.0.1847.134
	Touch Driver Free	Yes; Separate driver for Mac 10.10
Display Tolerances	Tempered Glass	4mm (Anti glare 80%)
	Operation Temp (dC)	0 ~ 40 degC
	Storage Temp (dC)	0 ~ 40 degC
	Storage Humidity	10%-90%RH non-condensing
	Operating Humidity	10%-80%RH non-condensing
	Display Orientation	Landscape
	Usage (hrs/days)	18 hours / 7 days
Interface	Audio Input (L/R, RCA)	x1
	Internal Spk	20 watt, 10W x 2
	Line Out (3.5mm)	x 2
	Line In (3.5mm)	x1
	COAX Output	Yes (x1)
	Power (AC) Input	x1
	Power Switch	x1
	VGA In	x1
	OPS / Option Board Slot	Yes
	HDMI Input	x 5 (4K Inputs x2, 1080P Input x3)
	Composite Video In (BNC)	x1
	USB Port (for USB playback)	Yes x2 ( USB2.0 x1; USB3.0 x1)
	RJ45 Port	x1
Control	RS232 Input / Output	x1 in, 1x out
	RJ45 Port	x1
	FW Update	USB / On the Air
Mechanical	Weight (without / with packing)	200 lbs / 246 lbs 90.7 kg / 111.6 kg
	Dimension (WxHxD)	72.7" x 43" x 3.7" / 1847mm x 1093mm x 95 mm
	Bezel Width (T/B/L/R)	35/56/35/35 mm
	Wall Mounting	VESA standard; 600x400 (MB)
	Pen Tray	x1
Language	OSD	English/ French/ Spanish/ CN/ AB (5 Languages)
Accessories	Remote Control	X1
	Power Cord	1.8 M
	VGA Cable	x1
	Quick Start Guide	x1
	USB Cable (Touch Interactivity)	x1 16.4' (5M)
	Touch Pen (Stylus)	x2
Software	Multiple Display Administrator	Yes
Part Number	UPC Code	8400460-3246-3
	Part Number	9H.F1VTK.DE2
Warranty	Warranty	3-year
Features	Built-in Android OS, Chrome OS Support, SMART Notebook Compatible, Office Document Reader, PDF reader, VGA Daisy Chain, Sharpness Enhancement, Low Blue Light, HDMI-HDCP, HDMI-MHL, Freeze/Blank, OPS PC Compatible	



## HIGHLIGHTS

### 4K Ultra HD Resolution for Stunning Image Clarity

A visually compelling 4K ultra HD image resolution does much more than just capture students' attention. It also ensures the highest level of viewing clarity for subjects such as biology, chemistry and fine arts that require visual demonstrations of detail-oriented images.

### Low Blue Light

Studies show that blue light originating from digital displays such as smartphones and tablets, as well as from fluorescent lamps, can have adverse effects on our eyes and the human body. This blue light may cause eye discomfort which can lead to eyestrain, lack of focus and even mental fatigue. BenQ displays feature a Low Blue Light mode to effectively eliminate blue light emissions, enabling teachers' eyes to remain focused and refreshed, even after prolonged use.

### ZeroFlicker for Refreshed Eyes

The image on conventional displays flickers at up to 200 times per second to achieve the desired brightness level, creating a level of visual noise that your eyes cannot see but can certainly feel. This visual noise can cause eyestrain, eye fatigue and discomfort. BenQ displays use ZeroFlicker technology, an exclusive direct lighting method that delivers steady, smooth lighting to keep teachers' and students' eyes comfortable and refreshed, even after long hours of use.

### Anti-Glare Tempered Glass

Screen glare shining in students' eyes can lead to difficulty reading content, which can lead to lack of attention or focus. This can become very uncomfortable and distracting for teachers and students alike. BenQ RP Series displays use strong, durable, high-quality 4mm anti-glare tempered glass to minimize reflections and produce easier-to-read text with clearer images on the screen, which helps students absorb more of the class material being presented.

### Instant Touch Interactive Functionality

Conventional displays can require complicated computer driver installations before enabling touch functionality. BenQ RP Series displays feature driver-free touch interactivity, enabling drivers to be automatically loaded in the background with no complications and no hassles. Simply connect the computer to the display's touch USB port and you are ready to deliver a touch-interactive lesson. This feature supports PC, Mac, Linux and Chrome operating systems.