

iQ™ Series



A truly intelligent projector concept for professional meeting spaces



**iQ™(Pro) Series,
Winner of 6 Technology Awards:**

"Pick Hit of NAB"

Video Systems Magazine, US

"Most Creative New Product at InfoComm"

KNews InfoComm Show Awards, US

"SatisFecit Award"

SATIS Expo, France

"Vanguard Award"

Video Systems Magazine, US

"Standing Ovation Award" (x2)

Presentations Magazine, US

BARCO

Visibly yours



Barco iQ™ series

The intelligent projector concept

For boardrooms, training facilities, customer centers, and auditoriums. The iQ Series is the intelligent projector concept you can build on.

Convince AND impress. Make sure your message is powerful and clearly understood. Display multiple information sources simultaneously. Whether it's a live news broadcast, a spreadsheet, or a corporate movie shown alongside your presentation, do it all on one screen with a single iQ projector. Switch input sources in no time! The iQ Series will never leave you in the dark.

As an AV facility manager, you need absolute reliability. You can't afford a projector that fails during a critical presentation. You need a projector that is easy to set-up and even easier to maintain! You also demand the best in image quality. **The iQ series gives you razor sharp, bright images with true colors.** And with Barco, you can count on connecting any future peripherals to an iQ Series projector.

The Barco iQ Series is specifically designed and engineered to increase your business efficiency.

Smart people make smart presentations with iQ.





Reliable

- Dual-lamp design
- Robust magnesium housing

Innovative

- Advanced picture-in-picture
- Seamless source switching

Easy-to-Use

- Intuitive user-interface

Future Proof

- Modular design
- Wide range of input boards

*"Barco's revolutionary iQ G350 (and iQ R350) front LCD projectors break new ground with a unique built-in seamless switcher and scaler for mixing interlaced and progressive-scan signals at any resolution. You can also tile up to four signal sources on both projectors in windows of any size, in any order, and at any depth - **another** first for the industry."*

Pete Putman, Senior Contributing Editor
Video Systems
Sound and Video Contractor



Show multiple source windows simultaneously

Make sure your audience gets the whole picture, the big picture, and the picture-in-picture.

Use our advanced technology to get the exact message you want across. Add effective images alongside your presentation, like your ad campaign, live news broadcasts, a DVD source or even a product drawing. Do it all - on one screen and by using one projector.

The standard iQ projector allows you to show up to three sources simultaneously (2 data and 1 video). With the optional input boards, you can add a second analog video connection or a digital video connection. This way you can display simultaneously 2 data and 2 video sources, a unique feature of the iQ projector Series.

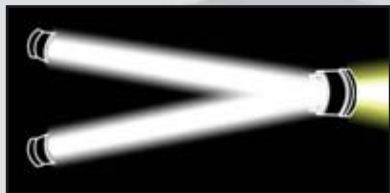
Efficient decision making often means exchanging and retrieving information in a fast and efficient way. Previously, when exchanging data during collaborative meetings, laptops needed to be connected and disconnected, and information was shown in a sequential way.

Now, the iQ enables you to connect 2 laptops simultaneously, so data can be compared easily.



Innovative dual-lamp system

All iQ Series projectors come with an advanced dual-lamp system to maximize light efficiency and reliability. If one lamp should fail, the iQ's auto-sensing feature instantly switches to the other lamp. All without going into standby mode.



Silent by design

The carefully designed magnesium housing ensures optimal cooling and airflow, resulting in a low noise level (<37 dBa in Economy mode).

Choose the brightness you need

Depending on your application, your iQ projector can be set to operate at its highest brightness or at a reduced brightness, but with improved TCO. During the first 100 operation hours of the lamp, you can choose between the following operation modes:

- **Full Power Mode:** the iQ will be operating at 5,000 ANSI lumens (in dual lamp mode) with a 1500-hour lamp system lifetime.
- **Economy Mode:** the iQ will be operating at 3,500 ANSI lumens (in dual lamp mode) with a 3000-hour lamp system lifetime.

Switching to single-lamp mode means doubling the lamp system lifetime (6000 hours in Economy Mode).

Higher contrast level

The iQ Series combines high-quality 1.4" poly-silicon LCD technology and BARCO's renowned image processing expertise.

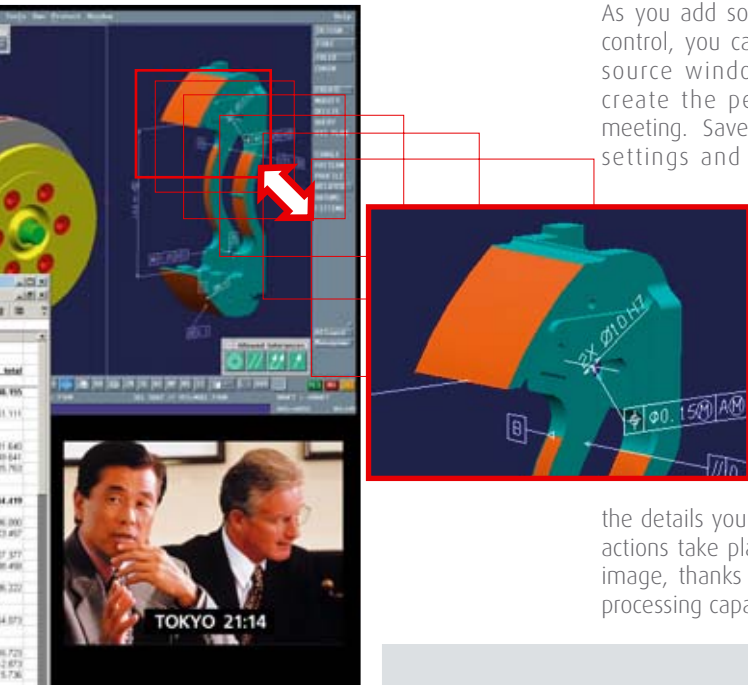
The result is an unsurpassed color reproduction and truly impressive images. With our precision optical elements, a high-contrast level of more than 800:1 is achieved.

up to **5,000** ANSI lum

sly

Position and size your source windows on the screen.

As you add sources with your remote control, you can resize and move the source windows on the screen to create the perfect layout for your meeting. Save and load your preferred settings and screen arrangement, allowing you to recall it instantly.



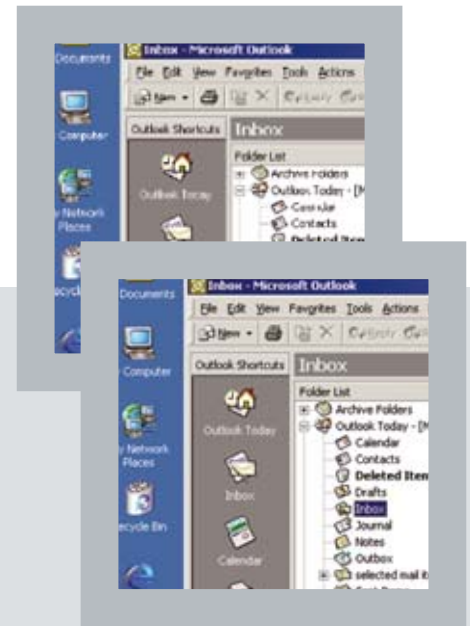
Digital Zoom

The iQ projector allows you to digitally zoom inside a window and scroll for the details you want to emphasize. All actions take place without freezing the image, thanks to iQ's real-time image processing capability.

Use your iQ projector for videoconferencing.

Simply connect a standard codec and video camera to the projector and your meeting room becomes a videoconferencing space. Your iQ projector displays your local audience, the remote audience*, and the shared presentation.

* The optional Audio Switcher and Video Input board allows to display 2 video sources simultaneously.



Razor sharp in every corner

State-of-the-art optics ensures unsurpassed clarity in every portion of the projected image.

Sharp, vibrant images

Barco's patented True Color Reproduction (TCR^{plus}) software enhances the quality of conventional video sources. The result is vibrant images with remarkable color depth, sharpness, and clarity.

Choice of resolution

You can choose super high-quality **S-XGA+** (iQ R500) or **XGA** (iQ G500) panels, depending on your presentation needs.

The UHP Lamp, with its blue-weighted color point, makes it the ideal projector for data presentations.

Optimal character readability

Barco's pixel map processing technology adds even more versatility and compatibility. The projector optimizes the resolution of the incoming source automatically to map the resolution of the LCD panels. You get crisp graphics with smooth and exceptionally readable characters.

Unsurpassed color uniformity

Barco's exceptional tuning facilities, result in remarkable color uniformity.



ens

Switch sources seamlessly ...

Use special transition effects.

Switch sources on-the-fly without distracting on-screen warning messages or irritating intervals. Use special effects like fade-in/out or vertical curtain to change sources. Now that's professional!

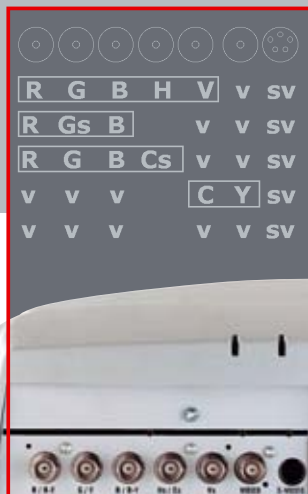
Use transition effects when switching from e.g. data to video sources



Make sure your logo is always there.

You can pre-program your company logo or some other appropriate image to appear on the screen. Then during intermissions or long discussions, the screen never goes blank. With one click on the remote control, you can switch from the display source to a full-color rendition of your logo or to another image you have chosen.

Your iQ projector can be programmed to display this image when no signal is detected.



Different BNC-input configuration possibilities allow combinations with up to seven composite video sources. Some examples are shown left.



Connect any peripheral.

The iQ array of input connections is enough to impress the most sophisticated electronics user. And they're all located for easy access in the cable basket on the projector's front panel. The iQ Series offers unique video application possibilities. Connect up to seven composite video sources or up to three S-Video sources. An intelligent video switcher is included to provide easy management of the various connections. There is no need to go to the expense of external switchers.

... with boundless c

The iQ comes standard with following connections: all RGB configurations, D15 connection, Composite Video, S-Video, Component Video and DVI. This Series also displays an extremely wide range of signals, including analog data to digital video and from the latest HDTV sources to all of today's popular RGB computer formats.

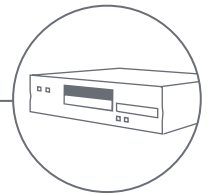
DVI (Digital Visual Interface) is the new open industry specification for digital connectivity. It replaces today's multiple standards for data connections. The digital signal from a computer is transmitted directly to LCD panels with minimal degradation or interference.

RS232 for software uploads and for communication with third party control panels or PC's

Shut the light in between presentations.

The light shutter button on the remote control, enables you to hold back any light of the projector.

This way you can keep preparation, setup and startup screens hidden for the audience, by blocking the light of the projector. You only open the lens shutter when you're ready to start your presentation.



Connection facilities.

SDI input board

This optional board offers an SDI (Serial Digital Interface) connection, with an SDI in and an SDI out connector, commonly known as active SDI loop through.

Audio switcher and video input board

This optional board consists of a video decoder, and an audio switcher and mixer. It includes a Composite Video, S-video, 4 Stereo Audio Input and a Stereo Audio Output to connect up to four audio sources attached to each of the maximum four windows in picture-in-picture mode. All four audio inputs can be routed and mixed in any number of ways to the audio output jack.



Optional input layers

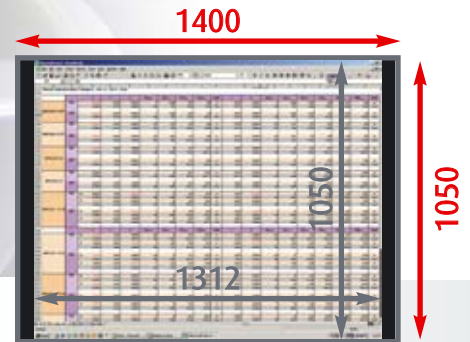


The iQ makes pre

The iQ Series is designed for **maximum ease-of-use**. Each projector automatically identifies the input source signal mode and optimizes all display settings accordingly. This guarantees an optimal image quality, with no manual adjustment necessary. You concentrate on your presentation without the distraction of having to constantly fiddle with adjustments.



Default handling of 1280 x 1024 source: aspect ratio is maintained, with maximum display size



Both images projected by iQ R350/R500

1280 x 1024 source fitting the "full screen"



Besides the default mode of source resolution handling, you can choose "full screen representation" (as shown above) or "show native resolution of source".

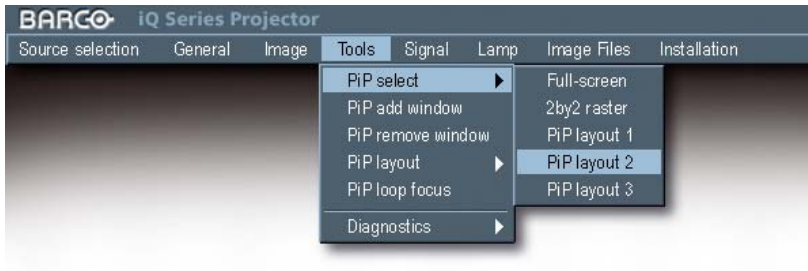
End the cable mess.

A state-of-the-art meeting area doesn't have to look like an electrician's worst nightmare.

The iQ's cabinet comes with an eye-catching magnesium cover and a cable basket at the projector front, concealing all of the input cables and creating a clean line and contemporary design.



Presenting a snap, ...



Familiar menu structure.

BARCO's enhanced and **intuitive user interface** guides you easily through all features. You control the projector just like your PC by means of the remote control.



A simple remote control gets the job done.

With the specifically optimized remote control, setting up the projector is as simple as "plug & play". You have easy access to simplified vital functions like source selection, picture-in-picture, and switching between sources. Three Quick Access buttons are available for customized programming to fit your particular needs.

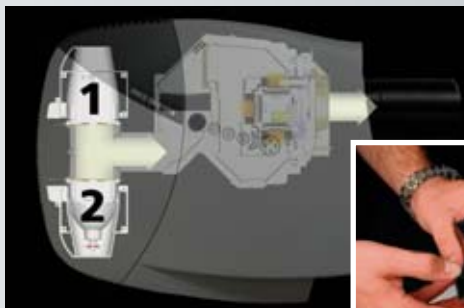
... servicing and maintenance are even easier.

Reduce maintenance cost.

Innovative dual-lamp system

The iQ projector lamps alternate intelligently, in order to reach end-of-life simultaneously. This way you can replace both lamps at the same moment, saving maintenance time.

Lamps take only seconds to replace with our innovative click & plug concept. No special tools are required.



Maximum installation flexibility

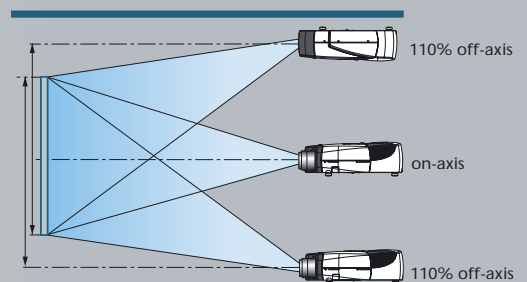
Digital keystone correction

The trapezoidal keystone distortion of the image is electronically corrected when it is projected upward or downward onto the screen.

Our ceiling mount system makes fixed installations and maintenance easy. The platform is horizontally and vertically adjustable.

Extreme lens shift capability

Centering the picture on the screen in fixed ceiling applications is a snap. The motorized zoom lenses can vertically shift 110% up and 30% down.



Broad range of quality lenses

Enjoy the flexibility to optimize performance for any setting. Short-throw lenses for rear projection, long-throw lenses for front projection in seminars, conference rooms or large auditoriums.



iQ series specifications

Light output

5,000 ANSI lumens in Full Power Mode
 3,500 ANSI lumens in Economy Mode
 This mode can be decided during the first 100 operation hours of the lamp.
 Brightness uniformity: > 95 % for the total screen

LCD Panels

3 active matrix 1.4" diagonal polysilicon LCD panels
 An aspect ratio of 4:3 is maintained.
 LCD panels are selected for a minimum of pixel defects.

Native resolution

iQ G500: XGA (1024 x 768 pixels)
 iQ R500: SXGA+ (1400 x 1050 pixels)

Contrast ratio

> 800 : 1 (full white/full black)

Lamp

2 x 250 Watt UHP lamp, in lamp housing, pre-aligned for max. light output.
 Typical lifetime:
 Full Power Mode: 1,500 h/lamp.
 Economy Mode: 3,000 h/lamp

Available Lenses

Lens Type	Order No.
Motorized Zoom Lenses	
QVD (1.3 – 1.8:1)	R9840950
QVD (1.9 – 2.6:1)	R9840960
QVD (3.0 – 6.0:1)	R9840970
Fixed Focal Length Lenses	
QVD (0.85:1) including rear screen optimization	Ropt1925
QVD (7.0:1)	R9841230

Lens shift range

Max. vertical shift from -30% to +110%

Recommended Screen Width

From 1-6 m/3-20 ft.

Scan Frequencies

Horizontal 15 kHz - 110 kHz
 Vertical 25 Hz - 150 Hz

Special Features

- AUTOIMAGE
- Advanced picture-in-picture
- Seamless source switching with effects
- Standard cable basket
- Standard light shutter
- Advanced digital zoom

Communication

1x D9 connectors for RS232 In/Out
 1x spherical IR receiver
 1x mini-jack for wired remote

Inputs

1x Configurable 5-Wire (BNC) for: Composite Video, S-Video, Component Video, RGBHV, RGBS, RGsB.
 1x Composite Video (BNC) (up to 7 Composite Video's when using all connectors on top input board)
 1x S-Video (4-pin mini-DIN) (up to 3 S-Video's when combining BNC's)
 1x VGA (D15 connector)
 1x DVI (Digital Visual Interface)

Compatibility

The iQ series is compatible with:

- All current video sources (PAL, SECAM, NTSC) in Composite, S-VHS, Component or RGB formats
- All currently proposed HDTV, extended and improved television standards (1080i, 720p)
- Most sources with a pixel clock up to 160 MHz
- All computer graphics formats from VGA, S-VGA, XGA, S-XGA and U-XGA (75 Hz)
- Most Macintosh computers
- Electronic workstations with a resolution up to 1600 x 1200 pixels/75 Hz
- DVI sources up to SXGA+

Noise level

< 38dB (Full Power Mode)
 < 37dB (Economy Mode)

Power consumption

Full Power Mode: 620 Watt
 Economy Mode: 520 Watt

Power dissipation

Full Power Mode: < 2117 BTU/h
 Economy Mode: < 1775 BTU/h

AC Power

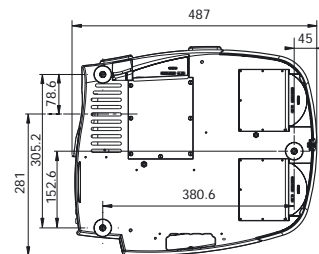
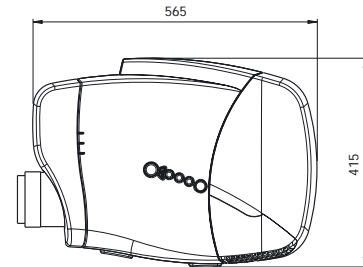
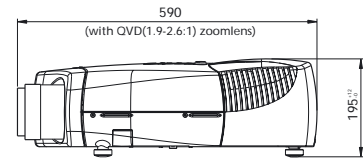
Power factor pre-regulated SMPS, 90-254 VAC / 50-60Hz

Weight

Net weight, body only: 12.9 kg/28.5 lbs.
 Shipping weight:
 - without lens max. 17.5 kg / 38.5 lbs.
 - with lens max. 20 kg / 44 lbs.

Safety Regulations

Compliant with UL1950 and EN60950



dimensions in mm

Dimensions	mm	inch
Length ⁽¹⁾	590	23.23
Width	415	16.34
Height	195	7.68

(1) with QVD (1.9 - 2.6:1) zoomlens

Electromagnetic Interference

BARCO's iQ series comply with FCC rules & regulations, part 15 Class B, CE EN55022 Class B and CCC

Order information

iQ G500	R9002930
iQ R500	R9010160
Lamp 250 Watt	R9841761
Dual lamp package	R9841760
Ceiling mount	R9841250
Ceiling mount bar short	R9841260
Ceiling mount bar long	R9841261
Flight case	R9841300
SDI input board	R9841320
Audio switching & video input board	R9841330
Factory fitted SDI board	Ropt1857
Factory fitted audio & video board	Ropt1858

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