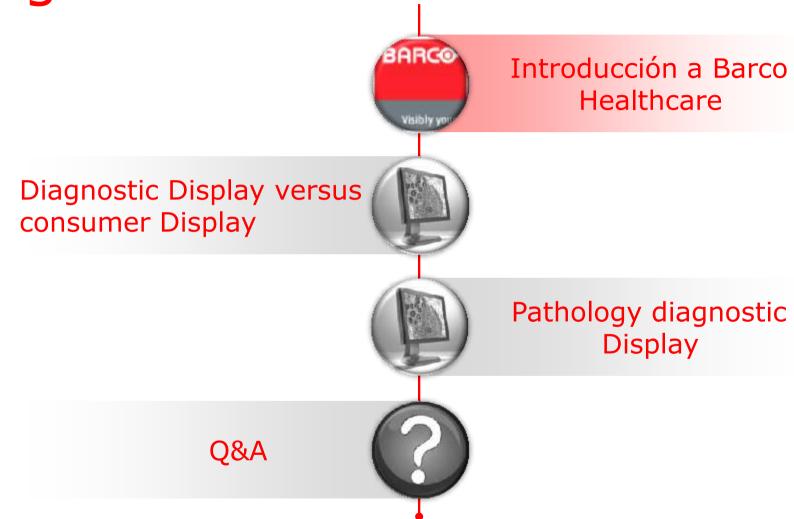


Agenda



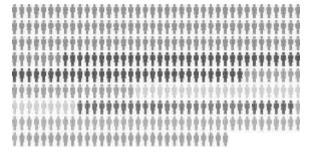


About Barco

You will find us where images are critical to professionals









NYSE Euronext

International company
Headquartered in Belgium
Stocklisted (BAR) on
NYSE Euronext Brussels

90+

Presence in more than 90 countries

3,507

Employees

1.041

Billion euro sales in 2011



Visibly yours

Worldwide presence





Geographical breakdown of sales 2011

NORTH-AMERICA



33%

EMEALA



44%

APAC



23%



Healthcare



"Supporting healthcare professionals a billion times a year"



Enhanced visualization and diagnosis across the healthcare enterprise













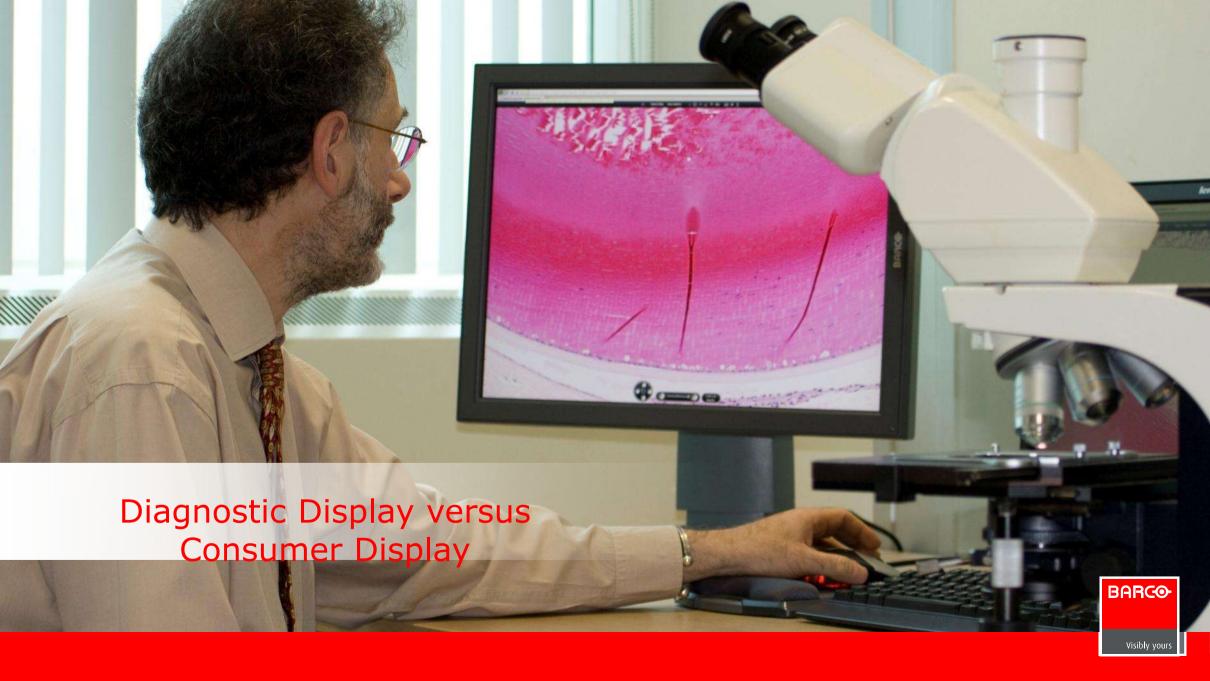








BARCO



Ultimate Slide-to-Eye Consistency

It's not just what you scan ... It's what you see!



Scanner's Role:

From Glass Slide to Digital File in a Fast, Stable and Standardized way

Diagnostic Display s Role:

From Digital File to Screen in a Fast, Stable and Standardized way



The issue with consumer displays

Where is the consistency & diagnostic confidence?



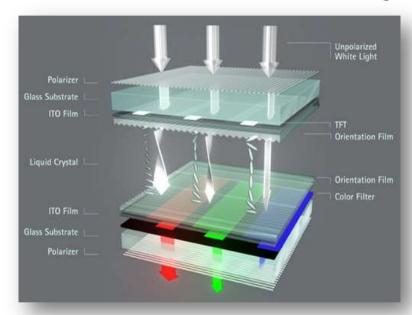
Sizes – colors – luminance – contrast – bitdepth – supply – QA – medical specifications - ...

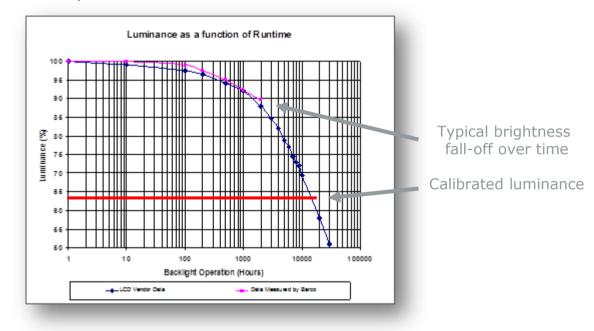
Suitable for Medical Diagnosis ??



Getting the best out of an LCD

Stable image over time ... Fully automatic!





Selecting the right LCD technology

- 13 Different types
- 14 Vendors
- Medical Diagnostic Quality

Stabilizing the output

- Backlight sensor
- Calibration circuits
- Real-time adjustments

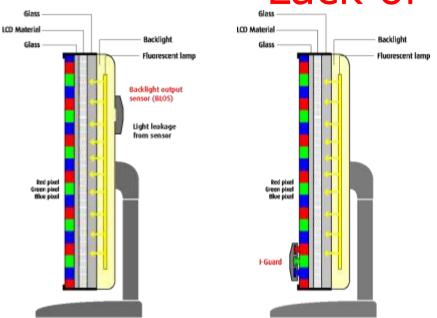
Oversizing the 'Consumables'

Extra backlight capacity



Visibly yours

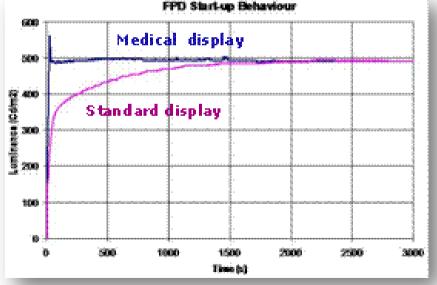
Lack of Image Consistency



"One of the bigger advantages of medical displays over consumer displays is brightness stability. Displays of both types may claim they will output a brightness of 400 cd/m2 for example, but only the medically marketed ones can maintain that brightness within fairly tight limits over the course of years."

Quote: David Hirschorn M.D. SIIM News Fall 2009







Diagnostic Displays achieve guaranteed consistency



"Consumer displays are equipped with neither such feedback circuitry nor any significant extra brightness capacity. As such, though they may start out bright, their brightness inevitably decays over time"

Ouote: David Hirschorn M.D. SIIM News Winter 2007

How we reach consistency

- I-guard diagnostic-quality front sensor
- Diagnostic-quality BLOS backlight optimization
- SRGB calibration
- 10-bit internal Lookup table
- MediCal QAWeb central QA management
- Internal calibration circuits





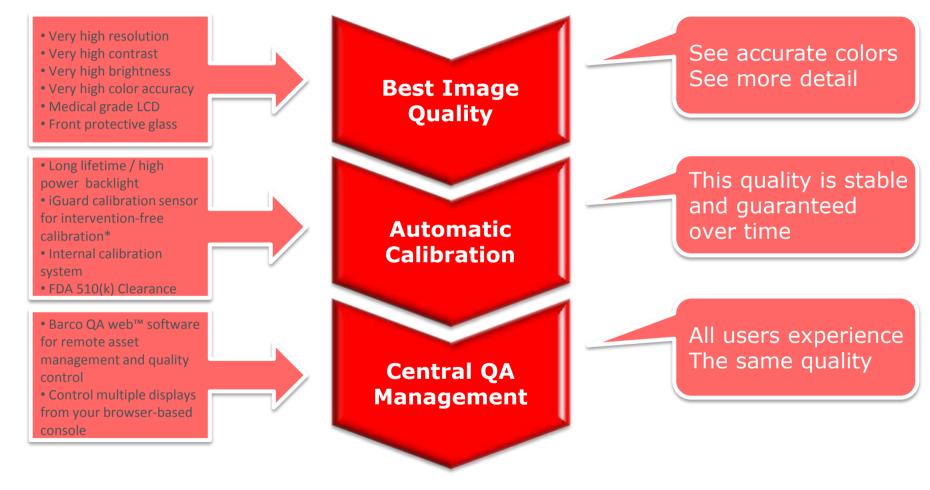




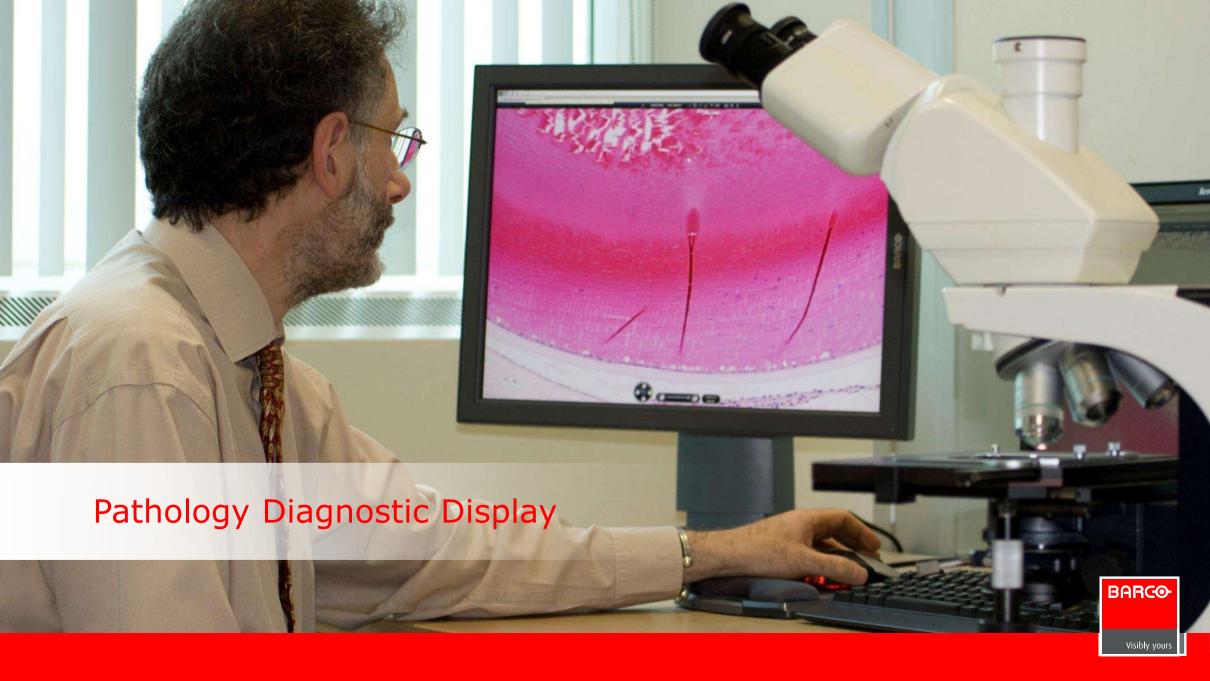




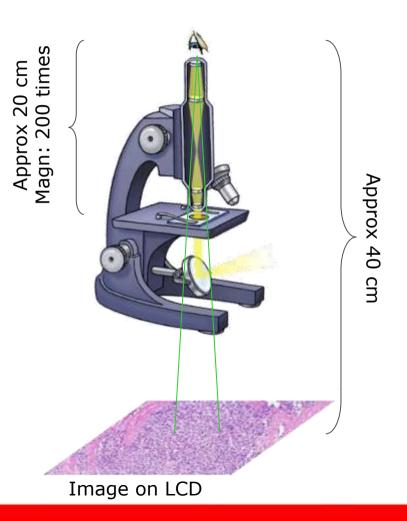
Summary: Barco technologies & advantages







Why 0,200mm pixel pitch may be right



According to experts, the perfect display for pathology should have a pixel pitch of approximately 0.200 mm.

"gives impression like through a microscope at 20x magnification"

Reasoning

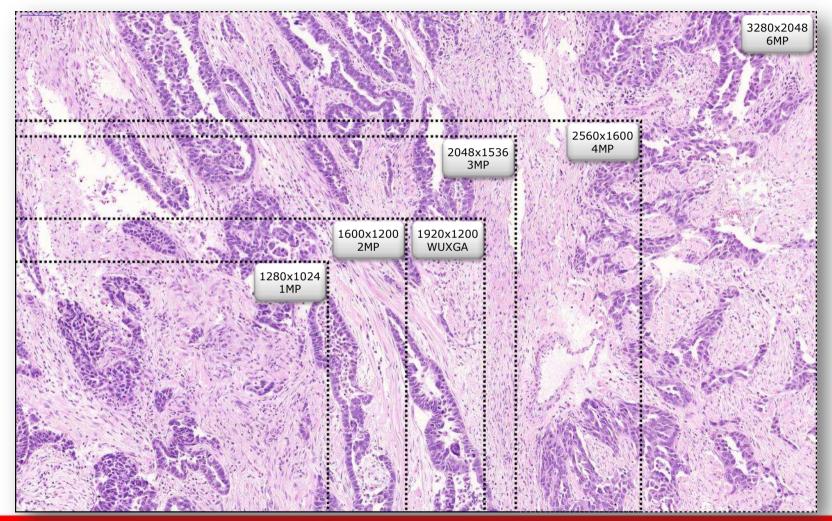
- Scanning at 0,5µm per pixel
- Magnification x20(0)
- Distance x2
- = 0,200 mm per pixel

Corresponds to Barco 3MP and 6MP spatial resolution

The screen size will define your Field of View



The Optimal (Re)solution for any Pathology Application





Pixel Pitch

Linking Monitor Sizes & Resolutions

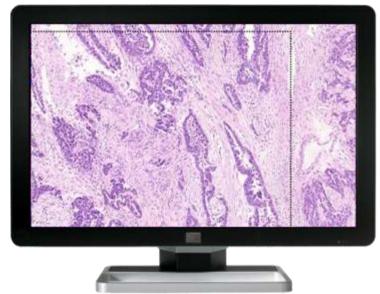


Nio Color 3MP

• Size: 21,3" (541 mm)

Resolution: 2048x1536

• Pixel Pitch: 0,2115 mm



Coronis Fusion 4MP

• Size: 29,9" (758 mm)

Resolution: 2560x1600

• Pixel Pitch: 0,2505 mm



Coronis Fusion 6MP

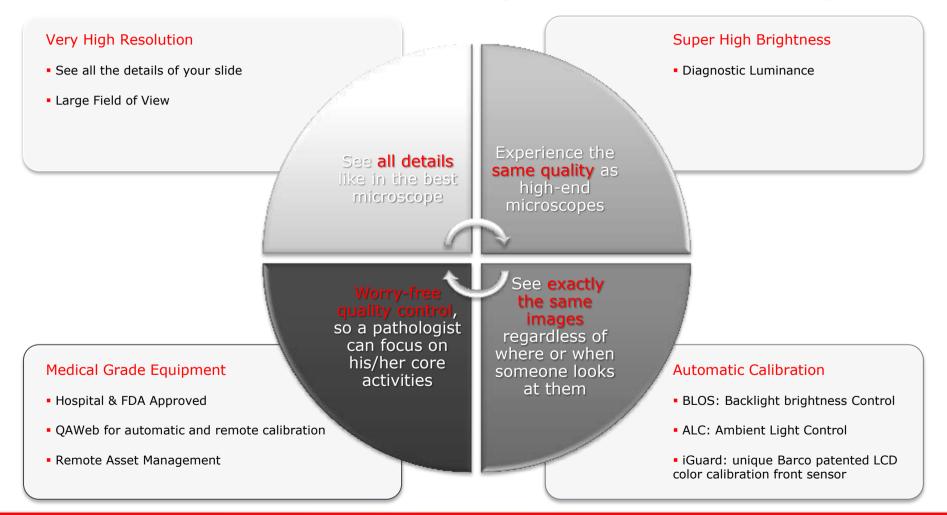
• Size: 30" (772 mm)

Resolution: 3280x2048

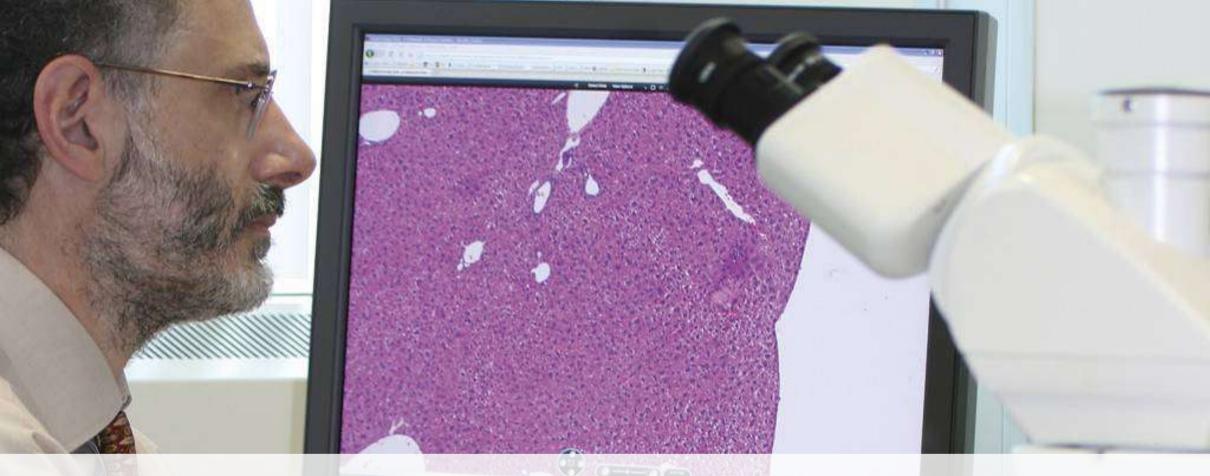
Pixel Pitch: 0,1995 mm

BARCO

The Barco advantages for Pathology







"Barco's pathology displays are the first displays with which I can make the same diagnoses as on my microscope."

BARCO-

The Scientists' opinion

Outcome of UPMC study



Barco is Best for Image Quality
Barco is Best for Diagnostic Confidence

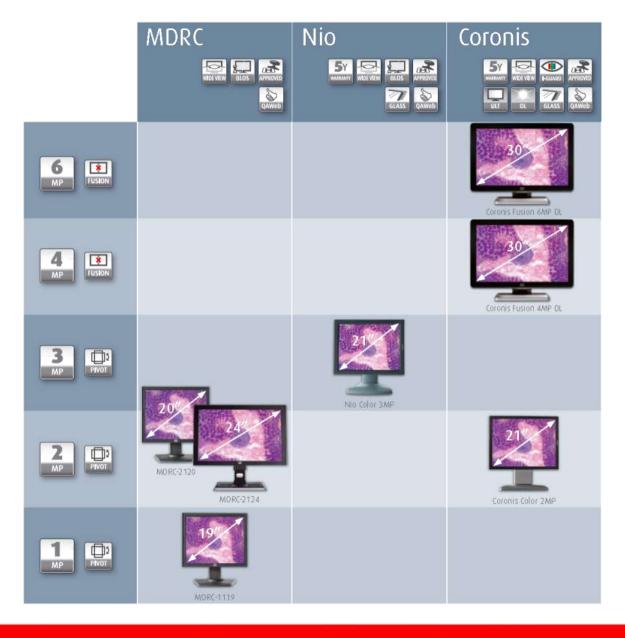
Definition of 'Best'

- Better than any display out there, standard or medical grade
- Better than an optical microscope, used as reference in this study!





Questions & Answers



Pathology displays

Display systems with built-in calibration and designed to deliver optimal sharpness, contrast and color accuracy

- Microscope-like image clarity and accuracy
- Perfect pathology slides for worry-free diagnostic interpretation
 - 100% consistency for uniform diagnosis
 - Reliable digital slides at all times



Product Families

	Medical Use	Fit for Purpose	Image Qualiy	Long Term Stability	Confident Remote Diagnostics	Resolution	Size	Warranty
Coronis	APPROVED GLASS	FUSION	WIDE VIEW BIT DL ULT	BLOS I-GUARD	QAWeb	2 4 MP MP	21" 30" SCREEN	5Y WARRANTY
Nio	APPROVED COVER	PIVOT	WIDE VIEW BIT	BLOS	QAWeb	3 MP	21" SCREEN	5Y WARRANTY
MDRC	APPROVED	PIVOT	WIDE VIEW	BLOS	QAWeb	1 2 MP MP MP	19" 20" SCREEN SCREEN 24" SCREEN	3Y WARRANTY

















	MDRC-1119	MDRC-2120	MDRC-2124	Nio Color 3MP	Coronis Color 2MP	Coronis Fusion 4MP	Coronis Fusion 6MP	
Screen size (inches, screen diagonal)	19.0"	20.1"	24"	21.3"	21.3"	29.9"	30.4"	
Resolution (pixels H x V)	1280×1024	1600 x 1200	1920 x 1200	2048 x 1536	1600 x 1200	2560 x 1600	3280 x 2048	
Pixel size (µm / pixel)	294	255	269	207	270	250	199	
Contrast Ratio (typical)	1300:1	800:1	1000:1	750:1	900:1	1100:1	1000:1	
Luminance - calibrated (Cd/m²)	180	180	250	400	300	500	500	
Luminance - maximum (Cd/m²)	300	280	400	800	700	950	800	
MediCal QA Web (calibration software)	yes	yes	yes	yes	yes	yes	yes	
Built-in Backlight optimization	yes	yes	yes	yes	yes	yes	yes	
External Calibration sensor	optional	optional	optional	optional	built-in iGuard	built-in iGuard	built-in iGuard	
Ambient Light Compensation	manual via QA Web	automatic via QA Web	automatic via QA Web	automatic via QA Web				
Uniform Luminance Technology	-	-	-	-	yes	yes	yes	
Protective front cover	optional	optional	optional	yes	yes	yes	yes	
Warranty	3 years	3 years	3 years	5 years	5 years	5 years	5 years	
FDA Clearance	Class 1	Class 1	Class 1	510 (k) class 2	510 (k) class 2	510 (k) class 2	510 (k) class 2	
Product page on Barco site	<u>link</u>	<u>link</u>	<u>link</u>	<u>link</u>	<u>link</u>	<u>link</u>	<u>link</u>	



Barco's high-performance display controllers









Optimized for performance

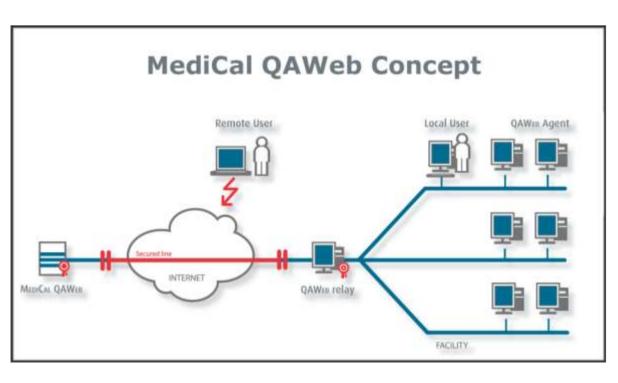
- Latest AMD FirePro[™] 3D technology
- Superior graphics
- Ultra-fast image loading
- Smooth roaming and manipulation of images
- Improved OpenGL and DirectX functionality
- Compatibility with Microsoft Windows® XP and Windows® 7
- Compatibility with the new DisplayPort interface standard
- Optimized to work with Nio and Coronis
- Optimized to work with MediCal QAWeb
- Reliable performance with the latest workstations & leading Digital Pathology applications





Remote Quality Assurance Management

Optimum peace of mind has never been easier



Displays align over the internet

- Barco's QA Web will assure the best image quality
 - Automatic Quality Checks
 - Automatic Calibration to established standards
 - Same image on all workstations
- And allow centralized control
 - Asset Management
 - Lifetime expectation & budgeting
 - Responsibility by central administrator

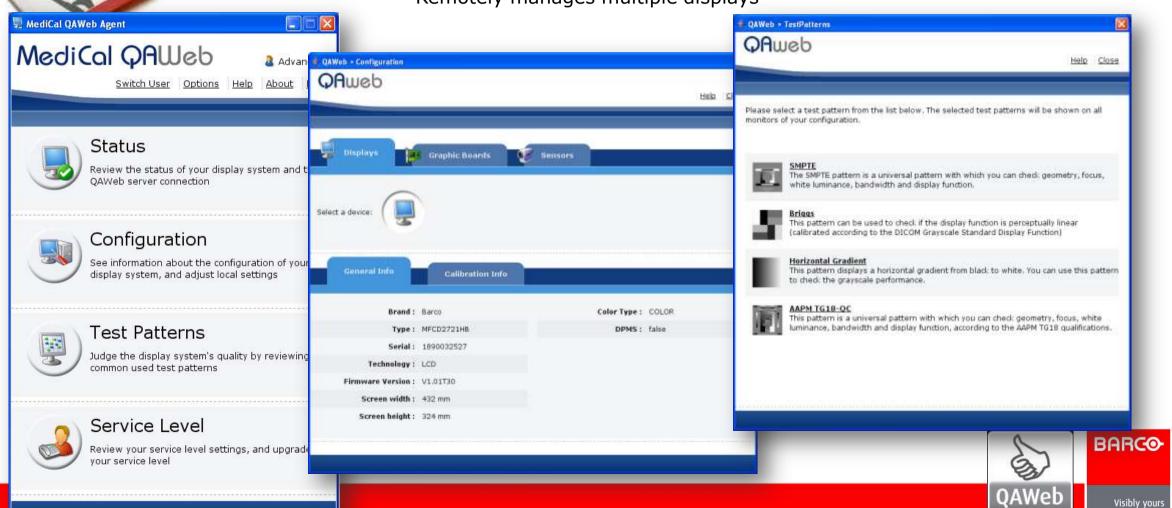






MediCal QAWeb Agent

Remotely manages multiple displays





MediCal QAWeb Agent

Remotely manages multiple displays

