

Barco Displays on non-Barco Display Controllers [ver. 12]

Windows 7, Windows 8.1, and Windows 10 Compatibility

1. INTRODUCTION

The purpose of this document is to:

- Provide a compatibility matrix of tested non-Barco display controllers with Barco displays
- Describe Display Communication methods
- Provide tested driver versions for use with non-Barco display controllers

How to read the compatibility matrix:

- ✓ Tested Compatible at full refresh rate
- ✓Ⓜ Tested Compatible with certain exceptions
- ✗ Not Compatible

2. MediCal QAWeb COMPATIBILITY

Non-Barco cards listed in this document have been tested compatible with all basic QAWeb functionality. Barco recommends using USB as the primary data connection between the workstation and display.

For this functionality, QAWeb 1.12.0 or later is needed and USB cables need to be attached. This version can be downloaded from the following location: <http://www.barco.com/en/QAWeb>

For those displays without USB, communications will be sent across the Display Data Channel (DisplayPort or DVI). The communication policy can also be changed through the QAWeb user interface under the options menu, as seen in Figure 1.

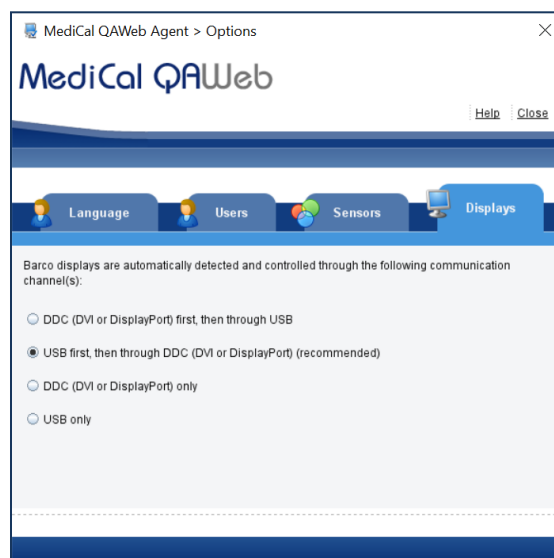


Figure 1: QA Web Communication Options

3. NON-BARCO DISPLAY CONTROLLER DRIVERS

Due to the large number of potential hardware configurations, Barco does not confirm compatibility of every specific driver available for non-Barco display controllers. However all display controllers in this document listed as compatible have been validated using drivers openly available from the respective GPU manufacturer’s website. The following is a table of drivers used in this testing.

| | NVidia | AMD FirePro |
|---------------------------------|--|---------------|
| Driver Version(s) Tested | 397.93 392.00 391.74 376.33 376.19 | 18.q2.1-may23 |

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4. NON-BARCO DISPLAY CONTROLLER COMPATIBILITY

| | | Non-Barco Display Controller | | | | | | | | | | | | | | | | | | |
|---------------|----------------------------|------------------------------|-------|----------------|----------------|----------------|----------------|------|-------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | Nvidia Kepler | | | Nvidia Maxwell | | Nvidia Pascal | | | | | AMD FirePro | | | AMD Radeon Pro | | | | | |
| Product Model | | K1200 | K2200 | K4200 | M4000 | M5000 | P400 | P600 | P2000 | P4000 | P5000 | W2100 | W5100 | W7100 | WX2100 | WX3100 | WX4100 | WX5100 | WX7100 | |
| Barco Display | Clinical - Color | | | | | | | | | | | | | | | | | | | |
| | MDRC-1119 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDRC-1219 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDRC-1219HB | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDRC-2122 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDRC-2221 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDRC-2222 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDRC-2224 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | Nio - Grayscale | | | | | | | | | | | | | | | | | | | |
| | E-3620-MA | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNG-2120 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNG-2121 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNG-3220 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDNG-5121-MA | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNG-5221 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDNG-6121 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNG-6221 | | x | ✓ ^⑤ | ✓ ^⑤ | ✓ ^⑤ | ✓ ^⑤ | x | x | ✓ ^⑤ | ✓ ^⑤ | ✓ ^⑤ | x | ✓ ^⑤ | ✓ ^⑤ | x | x | ✓ ^⑤ | ✓ ^⑤ | ✓ ^⑤ |
| | Nio - Color | | | | | | | | | | | | | | | | | | | |
| | MDNC-2121 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNC-2123 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDNC-2221 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDNC-3121 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② | ✓ ^② |
| | MDNC-3321 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDNC-3421 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDNC-6121 | | x | ✓ ^① | ✓ ^① | ✓ ^① | ✓ ^① | x | x | ✓ ^① | ✓ ^① | ✓ ^① | x | ✓ ^① | ✓ ^① | x | x | ✓ ^① | ✓ ^① | ✓ ^① |
| | Coronis - Grayscale | | | | | | | | | | | | | | | | | | | |
| | MDCG-2121-CB | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDCG-3120-CB | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDCG-3221 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDCG-5121 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDCG-5221 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDCG-10130 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDMG-5121-MA | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDMG-5221 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | Coronis - Color | | | | | | | | | | | | | | | | | | | |
| | MDCC-4130 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDCC-4230 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDCC-4330 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | MDCC-6230 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDCC-6330 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDCC-6430 | | x | ✓ | ✓ | ✓ | ✓ | x | x | ✓ | ✓ | ✓ | x | ✓ | ✓ | x | x | ✓ | ✓ | ✓ |
| | MDMC-12133 | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

① Non-Barco display controllers can only support 30-bit imaging at a refresh rate of 35 Hz on the MDNC-6121. Color calibration is not supported.
 ② When the AMD driver is in 30-bit imaging mode, QAWeb cannot calibrate displays using external sensors.
 ③ Single-link Dongle Required
 ④ Dual-link Dongle Required
 ⑤ Non-Barco display controllers can only support 30-bit imaging at a refresh rate of 35 Hz on the MDNG-6221.

