

Barco Displays on non-Barco Display Controllers v11




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, and
- Provide a table of compatible cables.

How to read the compatibility matrix:

-  Tested Compatible at full refresh rate
-  Tested Compatible at half refresh rate
-  Not Compatible

NOTE: Always update the Barco display to the latest firmware before attempting to install with a non-Barco display controller.

2. DISPLAY COMMUNICATION EXPLAINED

DDC or Display Data Channel is a communication channel between a display monitor and a display controller. Through this channel, information is sent to allow the display controller to read out the capabilities of the particular display. This information can be supported resolutions, name and model, sensor communication and others; it is also used in QA Web to calibrate the monitor and do QA checks.

For Barco MXRT display controllers, DDC communication is automatically enabled in the driver. For non-Barco display controllers, QAWeb will run a test to see whether DDC is functional, if DDC is not working in combination with your display controller and driver then USB will be used. For this functionality QAWeb 1.12.0 or later is needed and USB cables need to be attached. This version can be downloaded on the following location:

<http://www.barco.com/en/QAWeb>



Figure 1: QA Web Communication Options

The communication policy can also be changed through the QAWeb user interface under the options menu, as seen in Figure 1.

3. TESTED DRIVER VERSIONS

The following is a table of the driver versions that were confirmed compatible with the unbundled testing performed by Barco.

	NVidia	AMD FirePro
Driver Version(s) Tested	307.45	
	340.05	
	340.52	13.352
	340.84	14.301
	347.52	15.201
	375.63	

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4. NVIDIA COMPATIBILITY

	Product Model	Nvidia NVS				Nvidia Kepler								
		295	300	310	410	K600	K620	K2000D	K2000	K4000	K5000	K1200	K2200	K4200
	<i>Clinical</i>													
COLOR	MDRC-1119	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2124	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2122	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2221	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2224	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<i>Nio</i>													
GRAYSCALE	MDNG-2121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNG-2120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNG-3220	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E-3620-MA	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNG-6121	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDNG-5121-MA	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
COLOR	MDNC-3121	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNC-2121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNC-4130	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
	MDNC-2221	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNC-3321	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDNC-3421	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<i>Coronis</i>													
GRAYSCALE	MDCG-2121-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDCG-3120-CB	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCG-3221	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDMG-5121-MA	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCG-5121	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCG-5221	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCG-10130	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDMG-5221	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MFGD-5421	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
	MFGD-5621 HD	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
COLOR	MDCC-2121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDCC-4130	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCC-4230	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDCC-4330	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDCC-6130-DL	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDMC-12133	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
	MDCC-6230	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCC-6330	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓
	MDCC-6430	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	✓	✓

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5. AMD COMPATIBILITY

	Product Model	AMD FirePro											
		V3900	V4900	V5900	V7900	W5000	W5000DVI	W7000	W2100	W5100	W7100	2270	2270 1G
	<i>Clinical</i>												
COLOR	MDRC-1119	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2124	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2122	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2221	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDRC-2224	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	<i>Nio</i>												
GRAYSCALE	MDNG-2121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNG-2120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNG-3220	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	E-3620-MA	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNG-6121	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNG-5121-MA	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
COLOR	MDNC-3121	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNC-2121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNC-4130	X	X	X	X	X	X	X	X	X	X	X	X
	MDNC-2221	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNC-3321	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDNC-3421	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	<i>Coronis</i>												
GRAYSCALE	MDCG-2121-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCG-3120-CB	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCG-3221	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDMG-5121-MA	X	X	✓	✓	✓	✓	✓	X	✓	✓	X	X
	MDCG-5121	X	X	X	X	X	X	X	X	X	X	X	X
	MDCG-5221	X	X	✓	✓	✓	✓	✓	X	✓	✓	X	X
	MDCG-10130	X	X	✓	✓	✓	✓	✓	X	✓	✓	X	X
	MDMG-5221	X	X	✓	✓	✓	✓	✓	X	✓	✓	X	X
	MFGD-5421	X	X	X	X	X	X	X	X	X	X	X	X
	MFGD-5621 HD	X	X	X	X	X	X	X	X	X	X	X	X
COLOR	MDCC-2121	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCC-4130	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCC-4230	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCC-4330	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCC-6130-DL	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDMC-12133	X	X	X	X	X	X	X	X	X	X	X	X
	MDCC-6230	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
	MDCC-6330	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X
MDCC-6430	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	

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6. CABLE COMPATIBILITY

The following chart details the cable compatibility with the MXRT display controllers.

Cable Model	MXRT-x600			MXRT-x500					MXRT x400					
	2600	5600	7600	2500	4500	5500	5550	7500	1451	1450	2400	5400	5450	7400
DMS-59 to DP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A
DMS-59 to Single-Link DVI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A
Active DP to Single-Link DVI	✗	✗	✗	✗	✗	✗	N/A	✗	✗	✗	✗	✗	N/A	✗
Passive DP to Single-Link DVI	✓	✓	✓	✓	✓	✓	N/A	✓	✗	✗	✓	✓	N/A	✓
Active DP to Dual-Link DVI	✓	✓	✓	✓	✓	✓	N/A	✓	✗	✗	✓	✓	N/A	✓
DP to HDMI	✓	✓	✓	✓	✓	✓	N/A	✓	✗	✗	✓	✓	N/A	✓