

Using MagicQ PC with WYSIWYG visualiser

Introduction

This document is intended to enable you to get MagicQ PC working with the WYSIWYG visualiser. For best results MagicQ PC and WYSIWYG should be run on separate PCs linked with Ethernet. MagicQ PC and WYSIWYG can be run on the same PC but best results will be achieved with a big screen resolution, or multiple monitors.



We assume that you have already installed MagicQ PC and that it runs ok - if not, then please see the MagicQ PC release notes for how to install MagicQ PC.

A demo show is available for WYSIWYG and MagicQ. This show consists of five Martin MAC500 spots and four Martin MAC600 washes. The MagicQ show file is called `wysiwg.shw` with the corresponding WYWISYG show being `magicqwysiwg.wyg`

Interfacing MagicQ PC to WYSIWYG

MagicQ interfaces to the WYSIWYG visualiser using TCP/IP – this requires a network port on the PC.

Requirements:

PC(s) with Ethernet port

MagicQ PC installed on a PC.

WYSIWYG installed on a PC.

The correct version of the MagicQ WYSIWYG driver installed on the PC running WYSIWYG for your WYSIWYG release.

Demo MagicQ and WYSIWYG show files.

Using two separate PCs

Connect the two PCs via an Ethernet LAN. This can be a single reverse cable or a LAN setup with routers and hubs.

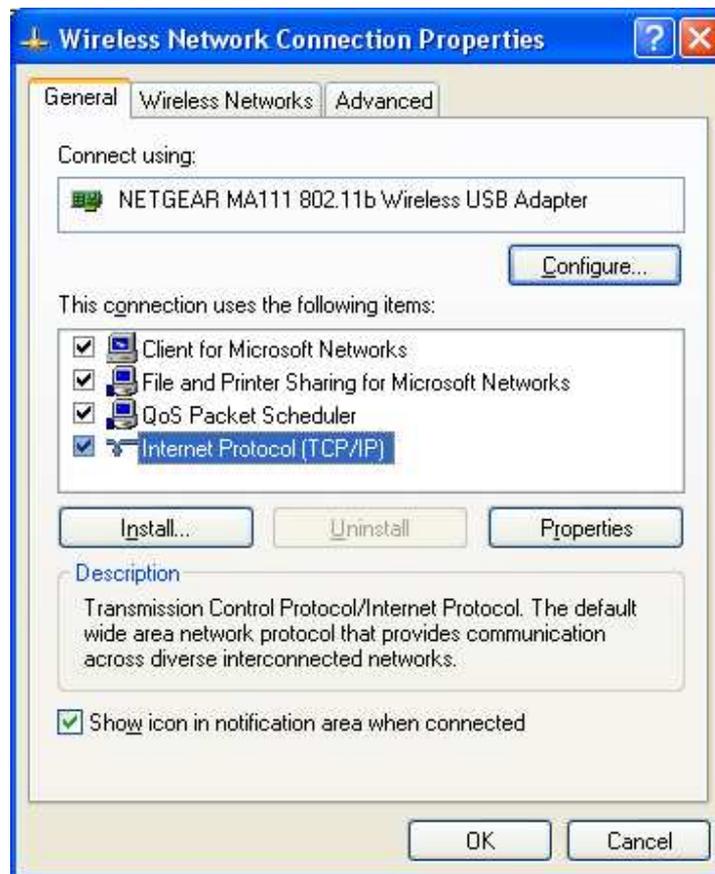
The IP addresses must be simply configured so that the two PCs can communicate - if you can ping one PC from the other then you should be ok.

Setting IP addresses (for those that didn't understand the paragraph above)

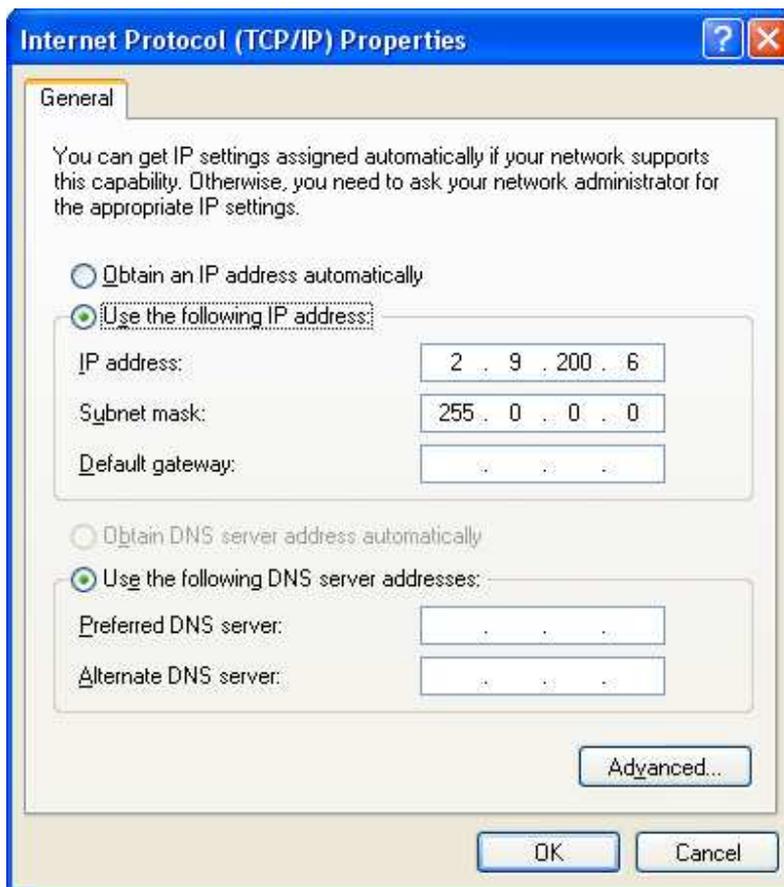
Changing IP addresses may stop you from connecting to an existing LAN - if you are not sure then check with the owner of the LAN. If you are simply connecting two of your own PCs together then this should not be a problem.

Save all existing work and shutdown any open applications.

In Windows the way you set the IP address of your network connection depends on the variant of Windows. However, once you have found the right dialog box it is fairly simple. In XP click Start, Control Panel, Network Connections. In ME click Start, Settings, Control Panel, Network. Then select the LAN connection (most people only have one) and choose Internet Protocol (TCP/IP).



A dialog box should appear with the title Internet Protocol (TCP/IP) properties.



You will be presented with a radio button choice between "Obtain an IP address automatically" and "Use the following IP address". Choose "Use the following IP address". Enter the IP address (e.g. 2.9.200.1) and the subnet mask (255.0.0.0). The default gateway address can generally be left blank. Click ok. Older Windows systems will request a restart - select "restart now".

To check communication between two PCs, go to one of the PCs and click Start, Run and a text entry box will be displayed. Type in ping a.b.c.d where a.b.c.d is the IP address of the other PC (e.g. 2.9.200.2). The PC will try to ping (send a test IP packet) to the other machine. If all goes well you will see a message saying "Reply from a.b.c.d". Check communication from both ends (use the IP address of the other PC at each end).

Running MagicQ PC

Start up MagicQ PC - you should see the initial screen requesting whether you wish to continue you the existing show, load a new show, or want help.

Click "load a new show". When asked whether you want to erase the existing show from memory select yes. Select the show "wysiwyg.shw". This will load a demonstration show designed to work with the WYSIWYG demonstration show. Note, if you have already closed the initial screen, then you can load a new show at any time by clicking the Setup button and selecting Load Show.

Enabling MagicQ to output data

Now you need to configure the outputs. Go to the Setup, View DMX I/O window. You will see a list of the 32 universes and their current configuration.

Move to the Visualiser row and select WYSIWYG for the first universe. There is no need to change the Status column to enabled - WYSIWYG is automatically enabled when you select WYSIWYG as the visualiser.

VIEW SETTINGS	VIEW WINGS	VIEW DMX I/O								RESET VISUAL	QUIT
Play Mode Normal	SETUP (show/ThuNov032019392005.sbk)										
	Universe	Status	Out Type	Out Uni	In Type	In Uni	Visualiser	Hot takeover			
	1	Disabled	ArtNet	Art 0	ArtNet	Art 0	Wysiwyg (remote)	No			
	2	Disabled	ArtNet	Art 1	ArtNet	Art 1	Wysiwyg (remote)	No			
Safe/Normal	3	Disabled	ArtNet	Art 2	ArtNet	Art 2	None	No			
	4	Disabled	ArtNet	Art 3	ArtNet	Art 3	None	No			
Prog Mode Theatre	5	Disabled	ArtNet	Art 4	ArtNet	Art 4	None	No			
Non track	6	Disabled	ArtNet	Art 5	ArtNet	Art 5	None	No			
Set Mode											

If you are using WYWISYG on the same PC as MagicQ then set the Visualiser to WYSIWYG (same PC) – otherwise, set it to WYSIWYG (remote). When connecting to WYSIWYG using a MagicQ console, always use WYSIWYG (remote).

When using WYSIWYG and MagicQ on different PCs it is important to ensure that MagicQ PC knows the IP address of the network card to use to communicate with WYSIWYG. In the Setup, View Settings Window, set the “IP Address” to be the same as the IP address of your computers network port – for example if you PC has a network address of 2.9.200.77 then set the value in the Setup Window to 2.9.200.77.

SETUP (show/ThuNov032019392005.sbk)	
Parameter	Setting
Interface settings	
IP address	2.9.200.77
Sub net address	255.0.0.0
Parallel port address	0378
Art-Net / Pathport sub net	00000000
MagicQ PC wing	Yes
Media server mount path	
Media server index path	
Media server IP address	0.0.0.0
External windows (Multi Windows)	Yes
Port settings	
Serial com port	COM5
Serial baud rate	9600
Serial parity	None
Serial data bits	8
Serial stop bits	1
Serial input protocol	None
Remote trigger type	Make

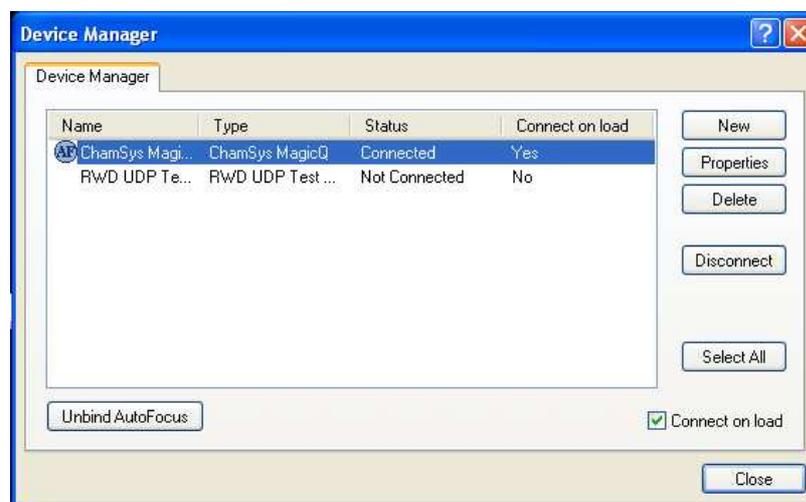
Running WYSIWYG

Ensure that the correct version of the MagicQ WYSIWYG drivers for your WYSIWYG release is installed on your WYSIWYG computer. The drivers can be downloaded from the ChamSys website.

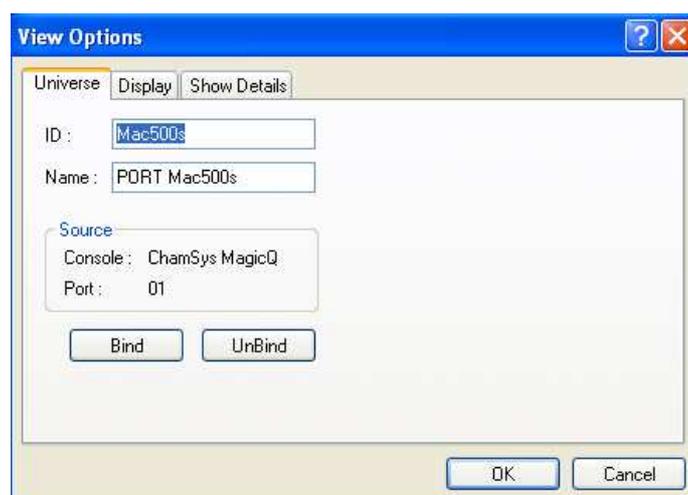
Start up WYSIWYG. Select the magicqwysiwyg.wyg show.

Getting WYSIWYG to respond to DMX data

In order to get WYSIWYG to respond to data received you need to set up the ports in Device Manager. Select ChamSys MagicQ and then Connect.



The universes in WYSIWYG must be bound to the ChamSys MagicQ device in order for communication to occur with MagicQ.



Running the show!

Once you have set up the connection in WYSIWYG then you should be able to run the demo show.

On MagicQ PC use the playback faders to control the Mac500 and Mac600 lamps in the demo show. The playback faders are set up to control dimmer, colour, gobo and position on the different faders.

Using MagicQ PC and WYSIWYG on the same PC

When using MagicQ PC and WYSIWYG on the same PC you may find that you constantly have to change between the two windows. Try sizing WYSIWYG to the top half of the screen then select the reduced view in MagicQ PC - you get a reduced panel with the playbacks and the head control buttons. This enables you to play back shows or program looks without requiring a full screen.

If you have the capability to run multiple monitors (many lap-tops allow a separate monitor output as well as the lap-top screen) then extend your desktop across multiple monitors with MagicQ PC on one and WYSIWYG on the other.

Auto Patch

MagicQ supports the WYSIWYG Auto Patch protocol. Selecting Auto Patch on WYSIWYG transfers the patch to MagicQ. To transfer a new show to MagicQ first erase the show in MagicQ and then select Auto Patch, Send Patch in WYSIWYG.

MagicQ identifies the fixtures in WYSIWYG and maps the names to the MagicQ fixtures using a mapping table. If MagicQ can not identify a fixture it will not be able to auto patch a fixture. The mapping table is updated in each release to support new fixtures introduced by WYSIWYG. Not all the different fixture modes are supported by both WYSIWYG and MagicQ.

From MagicQ software v1.4.0.0 the mapping is specified in each personality in the MagicQ Head Editor. MagicQ software prior to v1.4.0.0 used a text file called headmapcapture.csv in the show/heads folder to convert between the Capture personality and the MagicQ personality. It is possible to edit this file to add additional heads.

```
clay paky stgcol1000,Clay Paky,Stage Color 1000,9,StageCol1000#8
clay paky stgcol1000hi,Clay Paky,Stage Color 1000,14,StageCol1000#16
clay paky stgcol1200,Clay Paky,Stage Color 1200,12,StageCol1200#8_CMY
clay paky stgcol1200hi,Clay Paky,Stage Color 1200,14,StageCol1200#16
```

The first field is the MagicQ personality name. The second field and third field are used for Capture. The fourth field is the number of channels in the personality. The fifth field is the WYSIWYG name. WYSIWYG uses a # separator to indicate different modes for heads.

Auto Focus

MagicQ supports the WYSIWYG Auto Focus protocol. If you turn Auto Focus on for the ChamSys port in the Device Manager on WYSIWYG then changes made in WYSIWYG design mode will be relayed to the programmer in the console.

Troubleshooting

Problem: WYSIWYG does not receive any data.

Solution: Check that the connection is connected in WYSIWYG device manager. Check that you have configured the correct MagicQ universes to use WYSIWYG as their visualiser.

Problem: WYSIWYG will not connect on the same PC as MagicQ.

Solution: Check you have the correct version of the MagicQ WYSIWYG drivers installed for your WYSIWYG release on your WYSIWYG PC. Check that you have configured the Visualiser to be WYSIWYG (same PC) in the Setup Window.

Problem: WYSIWYG will not connect between two separate PCs.

Solution: Check that the network ports on the two PCs are configured to the same IP subnet, that they are enabled, and that you have configured MagicQ to use the correct network port (Setup, View Settings, IP address).

Problem: WYSIWYG connects but no control of the lamps

Solution: Check the MagicQ Universe in WYSIWYG is bound to the MagicQ device.

Feedback

The above instructions are a guide to getting MagicQ PC and WYSIWYG. We would be pleased to receive any feedback as to how we can improve these instructions to support@chamsys.co.uk.

Chamsys accepts no responsibility whatsoever for the accuracy of the above instructions. Chamsys accepts no liability for any consequences of users following the above instructions. Users should satisfy themselves they understand what they are doing before carrying out any changes to their PC configuration.