

Although the IP Interface Modules are factory set to just plug into a network you may need to change the IP Addresses to avoid conflicts with other devices or work on a different network.

The sending IP Interface is configured as a **Multicaster**. This can be a stand-alone unit or built-in to the controller.

MULTICASTER - Changing of addresses and settings.

Power the Multicaster via the XLR 4 power lead provided or via the MFC, and make sure that the RJ45 plug is connected. After this set in the bottom right hand corner of the taskbar and click "**OPEN NETWORK AND SHARING CENTRE**"



2. Once you have opened this new tab, the page should look like below. Click the 'Local Area Connection' or 'Network and Sharing Centre'. You will now need to click on 'Ethernet' or 'Local Area Network'

Ethernet Status		x, or
Connection IPv4 Connectivity: IPv6 Connectivity: Media State: Duration: Speed: Details	No network access No network access Enabled 12 days 09:26:11 100.0 Mbps	Click ' <i>Properties</i>
Activity Sent	Received	
Bytes: 9,651,294,57	1 9,268,129,118	
Properties Disable	Diagnose	
	Close	







Select 'Properties' again.

This will open a 3rd popup window which will allow you to set the IP address of your computer. You should now set it to the same subnet as the IP Interface you want to connect to. The subnet is usually the first 3 numbers of the IP address -192.168.1 – for example. You must input an IP address that does no conflict with anything else on the same subnet .ie: if the Multicaster in the MFC is 192.168.1.240 and the IP receiver at the camera is 192.168.1.202 they are on the subnet (192.168.1.) Set your PC address to 192.168.1.245, for example, as this will not conflict with any of the other addresses.

Obtain an IP address automatical	lly
IP address:	192 . 168 . 1 . 245
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	

Click 'Use the following IP address'

Then enter the address; 192.168.1.245 for example.

In this example, the subnet mask tells us that the subnet address is the first 3 numbers (192.168.1) and the device (pc) address is the last number (245)



Click *OK*. Then you might need to close the popup for the change to happen. This will then switch your PC to the correct subnet to be able to communicate and change the settings of the IP units.

It might fill in the subnet mask automatically, if not enter the numbers as shown.

	M (
	c
	W
	E
94C	
/60	
2	

You can check the new IP address of your PC by using the **'Command Prompt'** widow. Search for this in the windows search box.

Type '*ipconfig'* and then hit **Enter**.

The *IPv4 Address* will confirm the address.

Now open a web browser. (This could be chrome, edge or whatever you use it doesn't matter). In the task bar type the IP address of the Multicaster / Receiver that you wish to change (This should be printed onto the unit itself for easy identification). A login box with appear. This will allow you to log into the receiver that you are addressing. The default login & passcode are:

- USERNAME: root
- PASSWORD: dbps

The password and log in can be changed in the security tab of the web based settings page. If you are operating in a public environment then we suggest you change this to something else. As "**root**" and "**dbps**" are the default logins for all units.





Once you have logged in, you can change the IP address of the IP module by clicking '*Network'*.

Home	Network Configuration				
Configuration	▼ IP Settings				
NetworkSerial PortSecuritySystemManagementSerial PortsConnectionsAdministrationBackup/RestoreUpdate FirmwareFactory Default Settings	 Obtain an IP address automatically using DHCP * Obtain an IP address automatically using DHCP * Use the following IP address:				
Reboot	Advanced Network Settings				
Logout					

Copyright © 1996-2009 Digi International II

Set the IP address of the Multicaster like the example above.

BRREMOTE Broadcast Camera Systems our focus

UDP IP Multicaster / Receiver setup info:

Now click '*Serial Port'*. Enter as many destination IP addresses as you need. Normally these will be on the same subnet but sometimes, if you are routing via a router, you can set different subnets.

Home	Serial Port Configura	ation				
Configuration	▼ Port Profile					
Network	Current Port Profile: UD	P Sockets Change	Profile			
Serial Port	The UDP Sockets Profile	allows a serial device	to communi	icate using L	IDP.	
Security			co comman	cate ability e	011	
System	Profile Settings					
Management	UDP Server					
Serial Ports	The serial device receives	s data from one or mu	ultiple syste	ms/devices o	on the network	
Connections	UDP Port: 2101	L				
Administration						
Backup/Restore	UDP Client					
Update Firmware	Serial data received is au	Itomatically returned i	to the last l	JDP client th	at sent data. Yo	
Factory Default Settings		elow. All serial data is	repeated a	is our unica	st to all devices	
Device Information	Send data to:					
Reboot	Description	Send To	UDP Por	t		
Logout	Cam 1	192.168.51.41	2101	Remove		
	Cam 2	192.168.51.42	2101	Remove		
	Cam 3	192.168.51.43	2101	Remove		
	Cam 4	192.168.51.44	2101	Remove		
	dest5	192.168.1.41	2101	Remove		
	dest6	192.168.1.42	2101	Remove		
	dest7	192.168.1.43	2101	Remove		
	Dest8	192.168.1.44	2101	Remove		
	dest9	0.0.0.0	0	Add		
	Send data when the	following string is fou	nd			
	OR (carriage re	eturn)				
	CR/LF (carriage return/line feed)					
	Strip string before sending					
	Send data after the f	ollowing number of id	le millisecon	ds		
	1 ms	_				
	Force sending data after	the following number	r of bytes (li	mits UDP pa	cket size)	
	10 bytes					

The standard UDP port is "2101". Make sure that the "send data after the following number of milliseconds" is set to 1 millisecond; also as seen in the picture make sure that "force sending data after the following number of bytes" is set to 10 Bytes. If this is not set correctly it will add undesired latency into the system.



Then click "Basic Serial" settings make sure the flow control is set to "NONE".

Home	Serial Port Configuration
Configuration Network	▶ Port Profile
Serial Port	▼ Basic Serial Settings
Security	Description:
System	Baud Rate: 9600 V
Management Serial Ports Connections Administration Backup/Restore	Data Bits: 8 ~ Parity: None ~ Stop Bits: 1 ~ Flow Control: None ~
Factory Default Settings Device Information	Apply
Reboot	Port Security Settings
Logout	Advanced Serial Settings
	Restore Factory Serial Port Settings

The last thing is to click 'System' and set the optimization to 'Latency'.

Home	System Configuration
Configuration Network Serial Port Security	▼ System Optimization: Latency ∨
System	Apply
Management Serial Ports Connections	▶ Web Interface
Administration Backup/Restore Update Firmware Factory Default Settings Device Information Reboot	
Logout	



Changing the IP Receivers settings:

The IP receivers are set up in the same way as the Multicaster however there is no need to set any destination addresses.

Make sure the IP address of the receivers (cameras) is set to one of the destination addresses set in the Multicaster.

Home	Network Configuration				
Configuration	▼ IP Settings				
Network Serial Port	 Obtain an IP address Use the following IP a 	automatically using DHCP * address:			
System	* IP Address:	192.168.1.41			
Management	* Subnet Mask:	255.255.255.0			
Serial Ports	Default Gateway:	192.168.0.201			
Administration Backup/Restore	* Changes to DHCP, IP a	ddress and Subnet Mask requ			
Update Firmware Factory Default Settings Device Information	 DNS Settings 				
Reboot	Advanced Network Set	tings			
Logout	1				

In this case the receiver address is set to match Dest1 (192.168.1.41) in the Multicaster.

Don't forget to return you pc address back to your internal network address when you have finished.

Go back to your Ethernet Properties and select;

'Obtain an IP address automatically'

or the oppropriate a locaria			
Obtain an IP address au	tomatically		
○ Use the following IP add	ress:		
IP address:			
Subnet mask:			
Default gateway:			