



## Techniquip 21DC control via RS232

All current versions of the Techniquip 21DC fiber optic illuminator *only* offer output intensity control using a 0-5 vdc analog input voltage applied to the DB-9 connector on the rear of the illuminator box. Previous models (formerly Stock & Yale) of the 21DC offered an optional RS232 control integrated into the illuminator box (models 21DCP and 21DCL) but they are no longer available.

Some manufacturers have integrated the older 21DCP/DCL models into their equipment and control the output via RS232. The latest 21DC models unfortunately only offer 0-5Vdc control and are not 'drop-in' compatible for replacement without some effort.

RS232 control is still possible with the latest 21DC models by using an external converter module (RS232 to analog output). There are several on the market but we have used the modules from Omega Engineering very successfully over the years. The suggested modules are either the model# D3171 or the #D3131. The D3171 is the preferred unit (0-5vdc output) but the D3131 (0-± 5vdc output) can also be used. Choice is primarily on what is currently in-stock available.

The Omega converter modules will also require an external power supply for operation but any supply with +10 to 30 Vdc @ >1W output will work. Meanwell, (meanwell.com), as well as many others offer low cost, single output models. Since the power demands are very low, even a wall socket plug-in style power supply would be suitable.

Link to Omega D3000 series modules:

<http://www.omega.com/pptst/D3000.html>

Link to Omega D3000 users guide:

<http://www.omega.com/Manuals/manualpdf/M1552.pdf>

If you have any questions regarding the model 21DC please contact us at [oem-optical.com](http://oem-optical.com).

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