



Toshiba TU-51/61 Camera with TU-52/53/62/63 Head (Optional SDI upgrade)

This CCU has been upgraded by Polecam to provide a full broadcast SDI output from the 9-pin "D" connector using the supplied 9-pin "D" to BNC accessory adapter. Should you wish to utilise the component signals at the same time as the SDI output additional custom made interface cables are available from Polecam on request.



Operation:

The 9-pin to BNC adapter must be securely attached to the Camera Control Unit before switching on and the CCU must have it's menu configuration changed as follows:- CCU "MENU OPTION 7" must be set to Y,Pb,Pr component output mode for correct SDI operation (factory default RGB). There is a 6 second delay after switch-on / power-cycle before the SDI signal is available. Please also note that the 2nd Y/C output via the 9-pin connector is no longer available as the "C" pin has been re-assigned to SDI out (Pin-9 SDI signal output, Pin-8 SDI signal ground).

The addition of the SDI upgrade increases the CCU power requirements by approx. 3 watts to a total of 11 watts (including camera head) and it is quite normal for the CCU to "run warm" with the SDI upgrade installed.

For the technical:

The internal SDI board takes it's component source directly from the same amplifiers feeding the 9-pin "D" signal output connector and is digitised using 10 bit ADC's with 2 X over sampling, to ITU-BT.656, and serialised into a SMPTE 259M-C Serial Digital Output to 800 mV / 270mhz / 75 ohms to the 9-pin/BNC adapter. The SDI input circuitry does not terminate the component signal as the termination is provided within the 9-pin "D" accessory adapter. Changing the termination source allows the user to use the component output at the same time as using the SDI output if required. It is therefore important that any attached hardware terminates all three component signal lines for correct SDI operation.

PR/SDI_Instructions.doc

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