

Danntech Process Instrumentation

Danntech

Dual Joystick Controller with Video Display

Price: [Call for Pricing](#)

Designed originally for remote camera control in the film industry, this controller can be used for any servomotor or servo-valve control applications. Each controller manages two servo motors - one for "pan" and the other for "tilt". Two joysticks are used for setting the motor speed and direction with a TFT display for monitoring the camera picture.

Specifications:

- Supply voltage - 12 V nominal - (10.2 to 13.8 V - automotive).
- Motor current - 1.9 A nominal, 2 A max.
- Forward and reverse control using two joysticks. The control is open-loop - i.e. speed, but we can be adapted for "torque-type" of control using the motor current. Position control is also a possibility using a shaft encoder fitted to the servo motors.
- Left joystick - tilt (up and down), right joystick pan (left to right).
- Joystick factory calibration to set up the maximum and the minimum - in calibration mode.
- Joystick to be contactless type with return to centre spring positioning, protective boot and round knob.
- Joysticks used are two axis type with only one axis used for the control, the other axis is not used.
- The enclosure is Satin-Black powder-coated mild steel with rounded corners and suitable front panel decal. Size - 310 x 170 x 50 mm (width x height x thickness), excluding additional dimension required by joysticks, potentiometer controls and connectors.
- All cable connections at top of enclosure except power in which is at the bottom.
- Camera Head connector (6 pin female - type Neutrik 6 Pin Chassis Female, NC-6/FP-1. Pin 1 - Pan Motor +ve, pin 2 - Pan Motor -ve, pins 3 & 4 - not used, pin 5 - Tilt Motor -ve, pin 6 - Tilt Motor +ve) to be used for power control to each motor. A six core cable (>1mm² conductors) will be required to connect to the Camera Head.
- +12 VDC power in connector (4 pin male - type Neutrik Chassis Male, NC-4/MP) to be on right hand side bottom to suit

belt fitting battery pack. Pin 1 - 0 Vin, pin 4 - +12 VDC in, pin 2 - RS232 TX and pin 3 - RS232 RX.

- ON/OFF rocker switch at top right of enclosure with power on green LED on the front panel will indicate that the unit is ON.

- Potentiometer adjustments with graduations for:

 - Maximum motor speed (motor current).

 - Ramping rate (maximum acceleration).

 - Joystick deadband adjustment.

- Separate adjustment controls for each joystick.

- 16:9 format LCD screen video monitor.

- Clear polycarbonate window for protection and sealing of LCD screen.

- Input for LCD screen is standard video input - PAL compatible.

- BNC connector provided for video input from the camera.

- A BNC connector also provided for video output to a reference monitor which is buffered/amplified to ensure 75 Ω ; impedance matching and correct signal levels (1 Vpk-pk).

[Vendor Information](#)