



# slide-33

Timelapse slider controlled by an Android phone with a Bluetooth/Arduino

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## Project Information

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**Code license**  
[GNU GPL v2](#)

**Labels**  
 Arduino, Android,  
 Bluetooth, DSLR, Canon,  
 EOS, Dynamixel, Robotis,  
 MX28

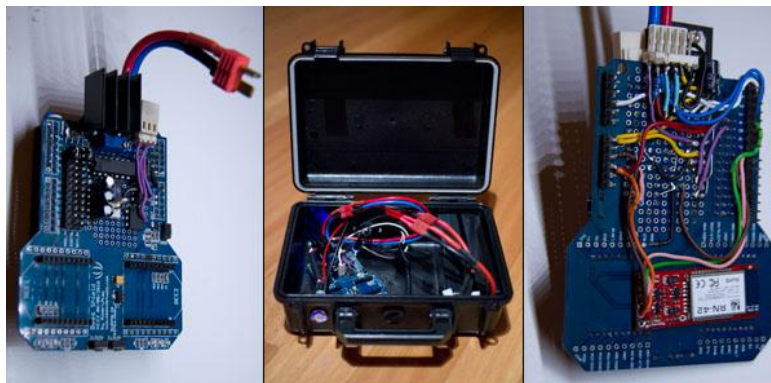
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## Links

**External links**  
[Circuits@Home USB library](#)



Back end is a Arduino ([Freetronic USBDroid](#)) which controls a motor/servo ([Dynamixel MX-28](#)) slider for both time-lapse sliding shots and video shots with wired/wireless shutter control and USB full control(ISO,Focus,WB,etc...)

Front end is a GUI via Android phone(still in development)

It's still very early days but with all the components but together there is a lot this unit will be able to do.

**Update 25 April 2013 :** A few errors have been fixed in Dynamixel Library

**Update 28 June 2012** : Dynamixel Library re-written from the ground up and the Arduino now can control pan/tilt/slide

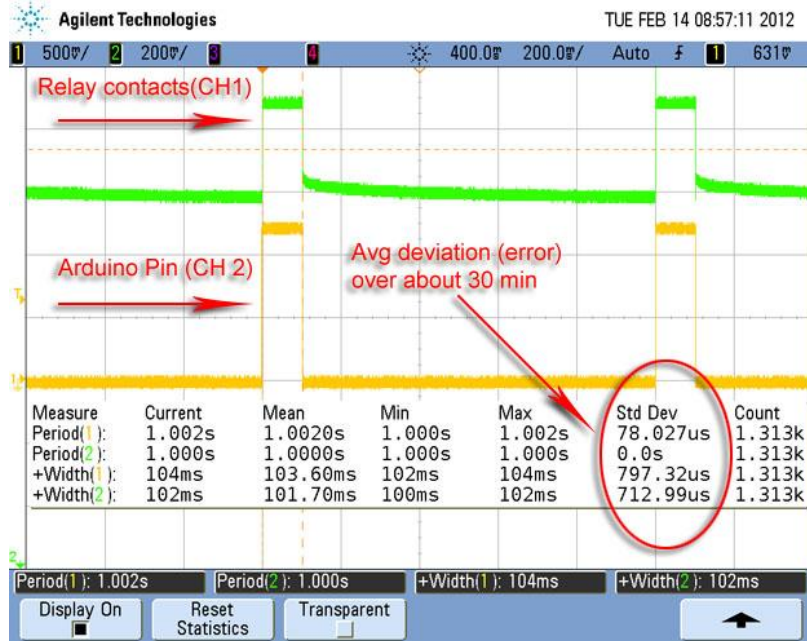
With the new library used there is no longer missed commands set to the MX-28 servo when in time lapse mode

Android App now has Pan and tilt control added

**Update 10 April 2012** : Dynamixel Library now has example of how to set-up and program a Dynamixel Servo via a Arduino

**Update 19 February 2012** : Android application added to download section

**Update 14 February 2012** : Shutter trigger now uses timer interrupt 2 to limit trigger drift



**Update 22 January 2012** : Time lapse section of code rewritten.

**Update 17 January 2012** : Library and Arduino sketch in download section updated to work with Arduino 1.0

#### Specification:

Min speed: 0.114 rpm

Max speed: 117 rpm

Max load: 24 kgf.cm

Resolution: 0.088 deg

Standby current: 300 mA

Max current 500 mA

EOS USB control (temporarily removed)

Wired/wireless shutter control

#### Hardware:

**Qty:1** Igus Drylin 10x40 rail and carriage, (alternative and cheaper liner side ([MakerSlide](#)))

**Qty:1** Dynamixel MX-28 servo

**Qty:1** Arduino with on-board USB host

**Qty:1** BlueSMiRF silver (Bluetooth)

**Qty:2** HFS2 (MOS relay)

**Qty:1** LM317 (voltage regulator)

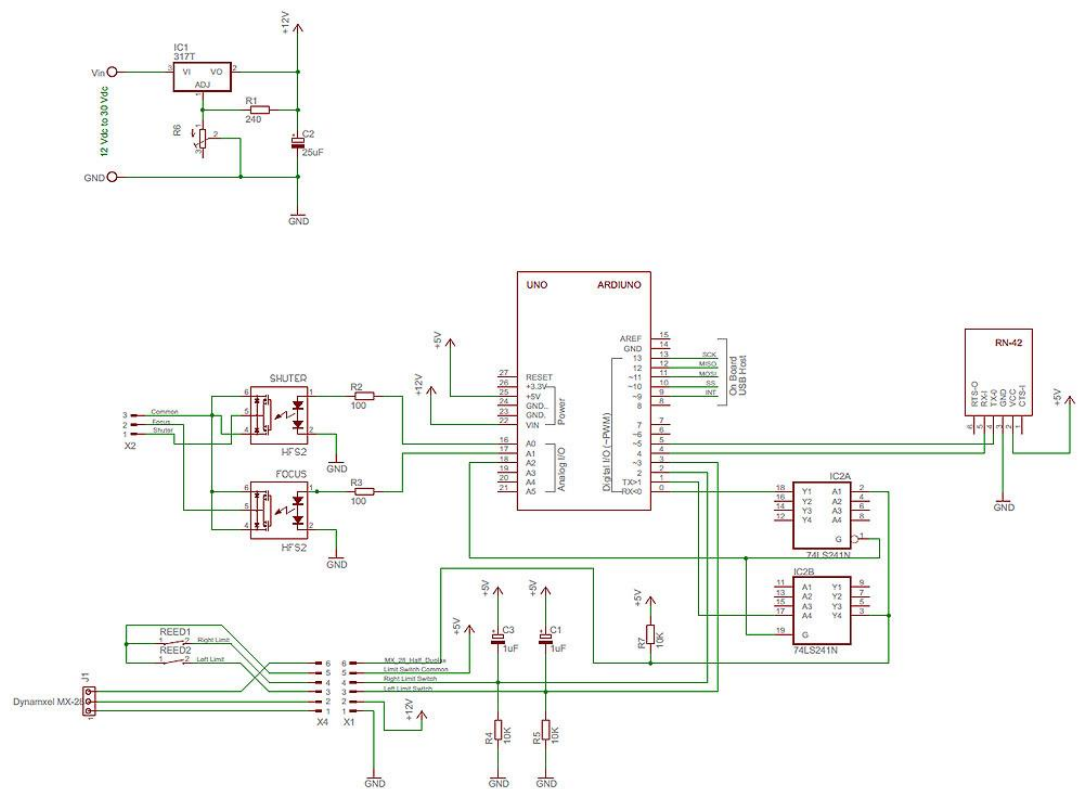
**Qty:1** 74LS241 (Duplex buffer)

**Qty:2** 7.4V @5000mAh battery

**Qty:1** Gates MXLS belt, [belt from SDP-SI](#)

**Qty:1** Servo horn, [Belt MXL pulley](#)

**Arduino Circuit** (This schematic can be found in the download section as a PDF)



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