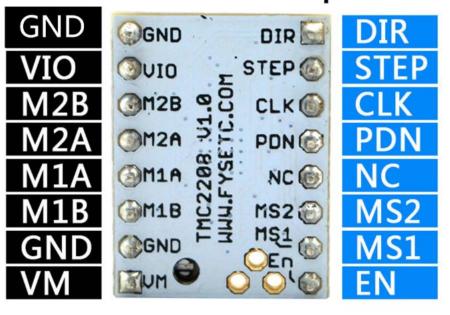


# TMC2208 Motor Drive Pin Descriptions



Pin Function

**Power Supply** 

**GND** Ground

VM Motor Supply Voltage

**VIO** Logic Supply Voltage

BLACK – Power GND			
YELLOW +12V Power Supply			
RED +5V Power Supply			

### Motor Outputs

M1AMotor Coil 1

M1B Motor Coil 1

M2AMotor Coil 2

M2B Motor Coil 2

BLACK = A
GREEN = A\
RED = B
BLUE = B\

#### **Control Inputs**

STEPStep-Signal Input

**DIR** Direction-Signal Input

**TMC2208** 

EN Enable Motor Outputs: GND=on, VIO=off

MS1 Step-Configuration

MS2 Step-Configuration

PDN UART and Auto Power Down Control:

GND=on, VIO=off

**CLK Clock Input** 

DIAG Diagnostics Output

INDEX Index Output

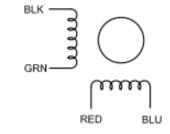
VREF Analog Reference Voltage

#### Stepper Motor & TMC2208 Wiring

	F CONNECTION EXTERN)	МОТ	OR
PIN NO	BIPOLAR	LEADS	WINDING
1	А —	BLK	A -
2	A\ —	GRN	A\
3	в —	RED	в
4	B/ —	BLU	В\

FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)

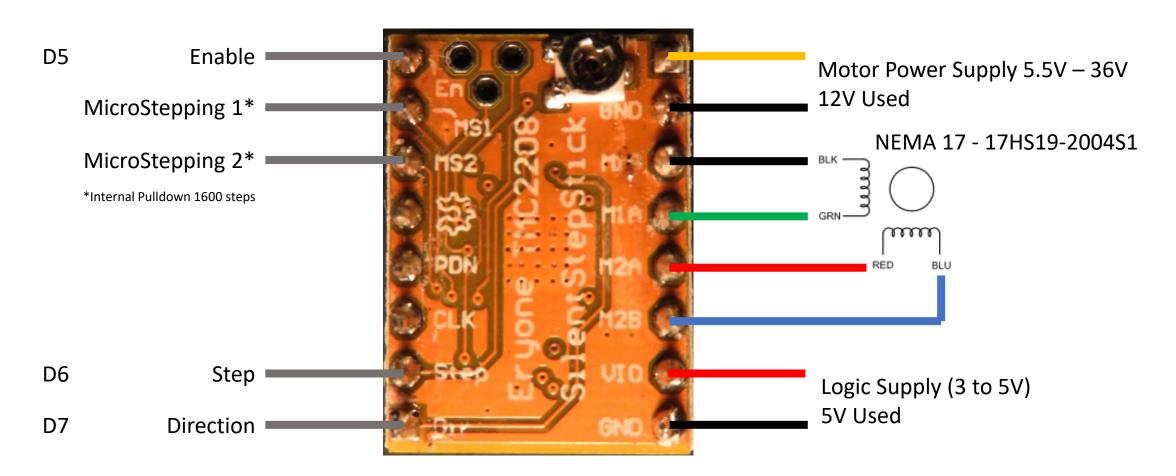
STEP	Α	В	A۱	B\		ccw
1	+	+	-	-	l i l	•
2	-	+	+	-	↓	
3	-	-	+	+		
4	+	-	-	+	CW	



APVD CHKD			STEPPER MOTOR	
DRN			17HS19-2004S1	
SIGNATURE DATE		DATE	1711010-200401	

#### TMC2208 Wiring to Arduino

	F CONNECTION EXTERN)	мот	OR
PIN NO	BIPOLAR	LEADS	WINDING
1	А —	BLK	A -
2	A\ —	GRN	A\
3	в —	RED	в
4	в\ —	BLU	B\



#### Arduino I/O Summary to Stepper

D5	Output	TMC2208 - Stepper - Enable
D6	Output	TMC2208 - Stepper - Step
D7	Output	TMC2208 - Stepper – Direction
+5	Output	TMC2208 – Logic Supply
GND	Output	TMC2208 – Logic Ground







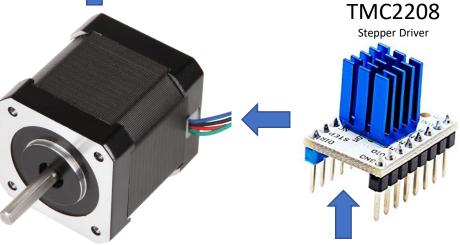


DigicamControl Arduino Plugin

Windows10 Laptop

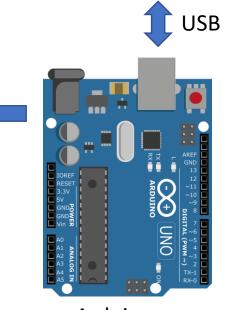




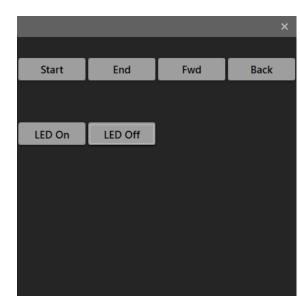




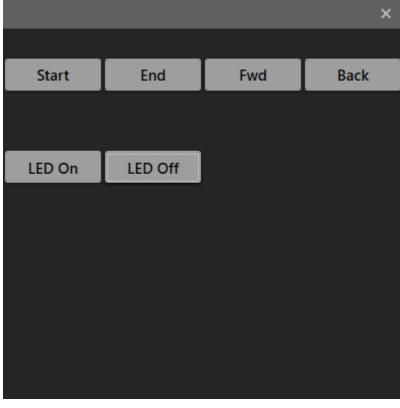


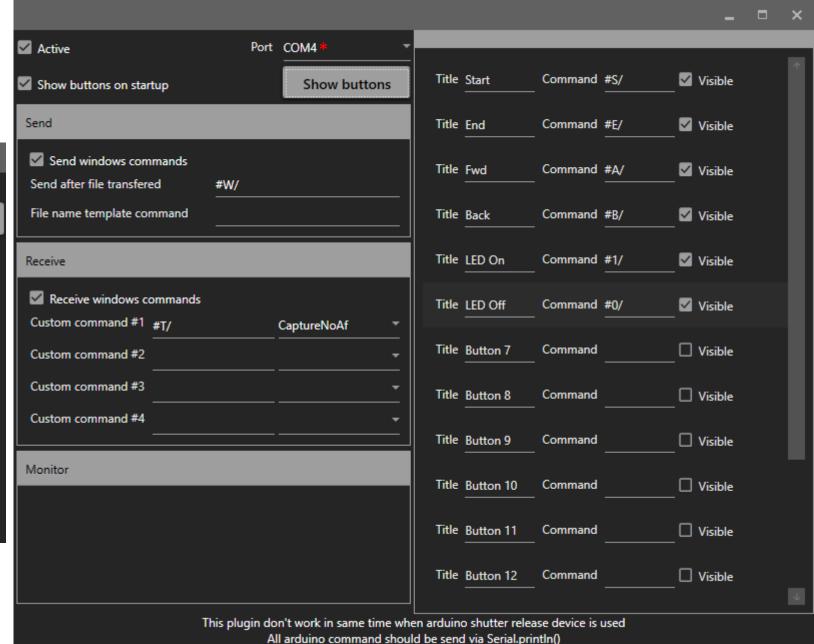






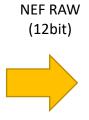
## DigicamControl Arduino Plug-in Settings





\* Port required may change depending on the COM used by Arduino.

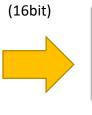






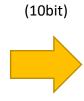


TIFF 16 bit



TIFF

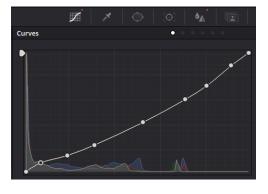




HEVC

Input NEF RAW (12bit) No frame rate change **Project Settings** Input Color Space sRGB

Output Color Space Rec.709 Gamma 2.4 Convert Clip from 16/18 to 24 FPS Crop to 3840 x 2160



VirtualDub2 Supports 16bit/pixel FFMPEG / x265



UN50NU7100FXZA



VirtualDub2 Supports 16bit/pixel



NeatVideo (with VirtualDub2) Limits bit depth to 8



VirtualDub2 Deshaker Limits bit depth to 8



**Resolve Free Version** Limits compressed outputs to 8 bit



