

RANGE ROTORS

TRICHOBLITZ TB-800

TRICHOBLITZ TB-600

Instructions for Pixhawk/APM



RANGE ROTORS

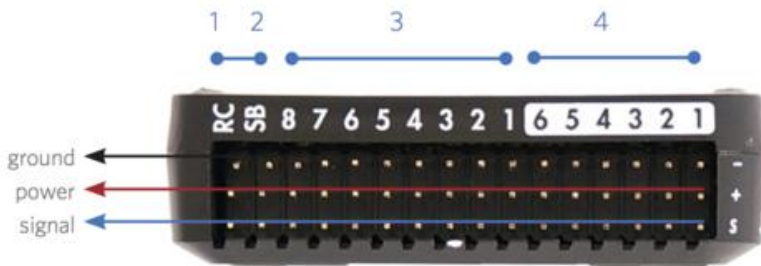
E-Mail: info@rangerotors.de
Range Rotors UAV Technik
Hauptstraße 5



- 1 Spektrum DSM receiver
- 2 Telemetry (radio telemetry)
- 3 Telemetry (on-screen display)
- 4 USB
- 5 SPI (serial peripheral interface) bus
- 6 Power module
- 7 Safety switch button
- 8 Buzzer
- 9 Serial
- 10 GPS module
- 11 CAN (controller area network) bus
- 12 I²C splitter or compass module
- 13 Analog to digital converter 6.6 V
- 14 Analog to digital converter 3.3 V
- 15 LED indicator

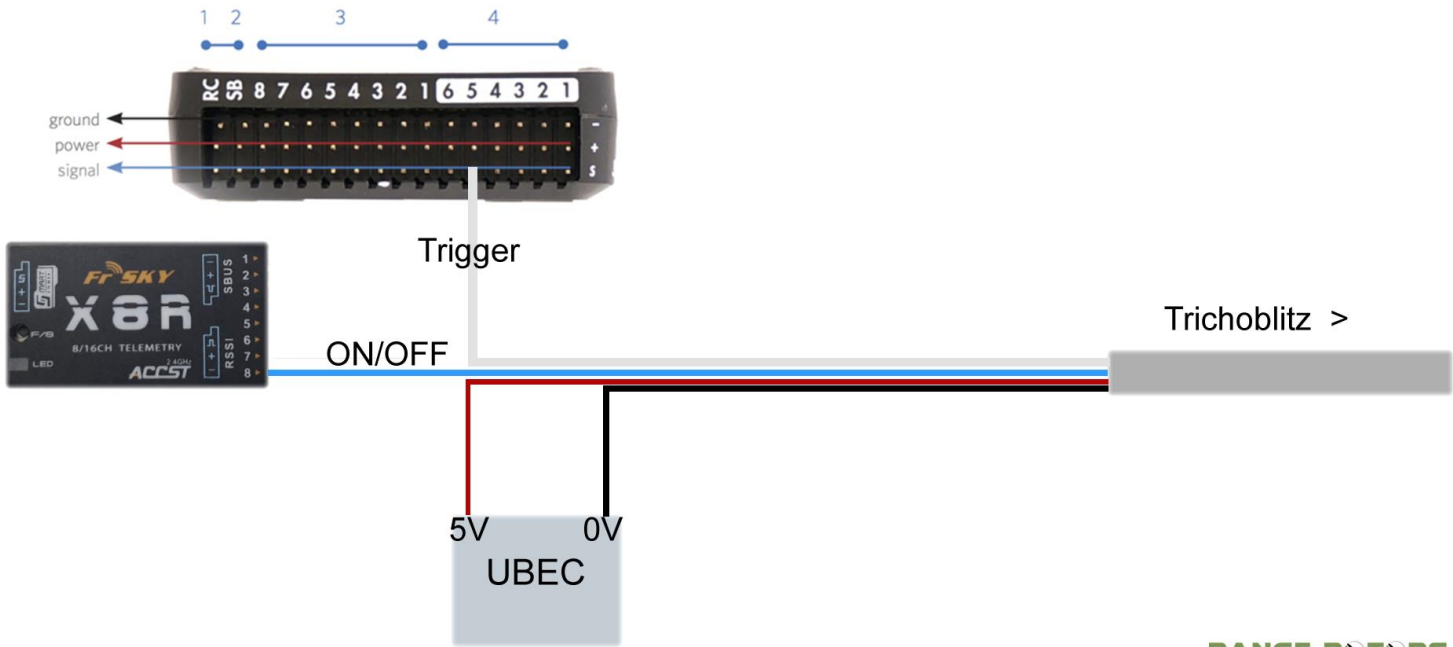


- 1 Input/output reset button
- 2 SD card
- 3 Flight management reset button
- 4 Micro-USB port



- 1 Radio control receiver input
- 2 S.Bus output
- 3 Main outputs
- 4 Auxiliary outputs

Wire	Signal	Volt
blue	ON/Off	3.3V PWM
white	trigger	3.3V PWM
red/brown	power	5V
black	ground	0V

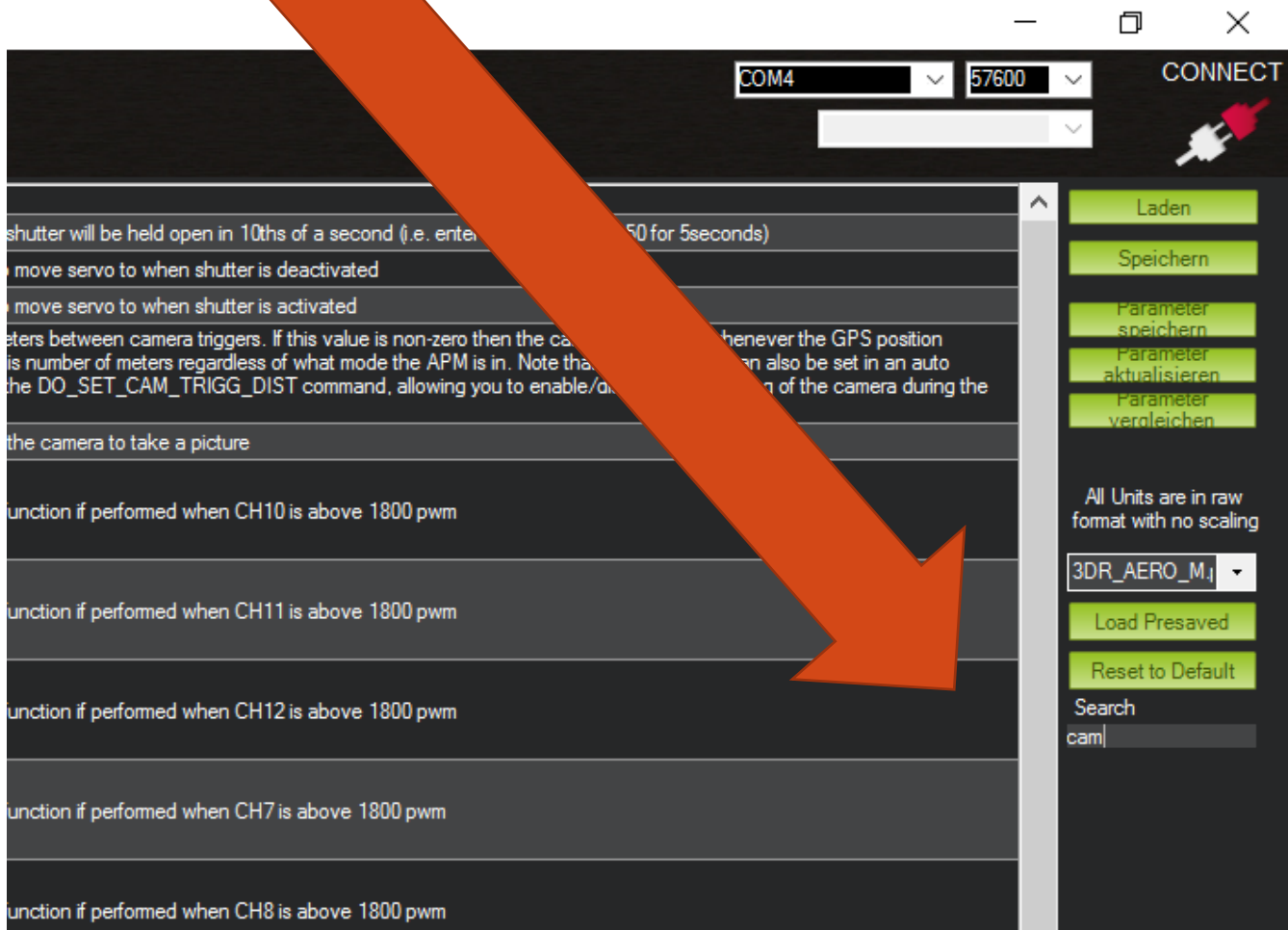


RANGE ROTORS

Mission Planer Settings:

Open your Mission Planner and go to CONFIG/TUNING > Full Parameter List.

Search for cam



Change this values in the Mission Planner.

Mp Mission Planner 1.3.35 build 1.1.5878.12941 APM:Copter V3.3.2 (7f16e4d6)

Komando	Wert	Units	Options
CAM_DURATION	2	seconds	0 50
CAM_SERVO_OFF	1100	pwm	1000 2000
CAM_SERVO_ON	1300	pwm	1000 2000
CAM_TRIGG_DIST	10	meters	0 1000
CAM_TRIGG_TYPE	1		0:Servo 1:Relay
CH10_OPT	0		0:Do Nothing 2:Flip 3:Simple Mode 4:RTL 5:Save Trim 7:Save WP 9:Camera Trigger 10:RangeFinder 11:Fence 12:ResetToArmedYaw 13:Super Simple Mode 14:Acro Trainer 16:Auto 17:AutoTune 18:Land 19:EPM 21:Parachute Enable 22:Parachute Release 23:Parachute 3pos 24:Auto Mission Reset 25:AttCon Feed Forward 26:AttCon Accel Limits 27:Retract Mount 28:Relay On/Off 29:Landing Gear 30:Lost Copter Sound 31:Motor Emergency Stop 32:Motor Interlock 33:Brake
CH11_OPT	0		0:Do Nothing 2:Flip 3:Simple Mode 4:RTL 5:Save Trim 7:Save WP 9:Camera Trigger 10:RangeFinder 11:Fence 12:ResetToArmedYaw 13:Super Simple Mode 14:Acro Trainer 16:Auto 17:AutoTune 18:Land 19:EPM 21:Parachute Enable 22:Parachute Release 23:Parachute 3pos 24:Auto Mission Reset 25:AttCon Feed Forward 26:AttCon Accel Limits 27:Retract Mount 28:Relay On/Off 29:Landing Gear 30:Lost Copter Sound 31:Motor Emergency Stop 32:Motor Interlock 33:Brake
CH12_OPT	0		0:Do Nothing 2:Flip 3:Simple Mode 4:RTL 5:Save Trim 7:Save WP 9:Camera Trigger 10:RangeFinder 11:Fence 12:ResetToArmedYaw 13:Super Simple Mode 14:Acro Trainer 16:Auto 17:AutoTune 18:Land 19:EPM 21:Parachute Enable 22:Parachute Release 23:Parachute 3pos 24:Auto Mission Reset 25:AttCon Feed Forward 26:AttCon Accel Limits 27:Retract Mount 28:Relay On/Off 29:Landing Gear 30:Lost Copter Sound 31:Motor Emergency Stop 32:Motor Interlock 33:Brake

Scroll down and find the CH8_OPT set it to 9 for manual triggering with channel8.
(You can also use the other channels for manual triggering)

CH7_OPT	0		0:Do Nothing 2:Flip 3:Simple Mode 4:RTL 5:Save Trim 7:Save WP 9:Camera Trigger 10:RangeFinder 11:Fence 12:ResetToArmedYaw 13:Super Simple Mode 14:Acro Trainer 16:Auto 17:AutoTune 18:Land 19:EPM 21:Parachute Enable 22:Parachute Release 23:Parachute 3pos 24:Auto Mission Reset 25:AttCon Feed Forward 26:AttCon Accel Limits 27:Retract Mount 28:Relay On/Off 29:Landing Gear 30:Lost Copter Sound 31:Motor Emergency Stop 32:Motor Interlock 33:Brake
CH8_OPT	9		0:Do Nothing 2:Flip 3:Simple Mode 4:RTL 5:Save Trim 7:Save WP 9:Camera Trigger 10:RangeFinder 11:Fence 12:ResetToArmedYaw 13:Super Simple Mode 14:Acro Trainer 16:Auto 17:AutoTune 18:Land 19:EPM 21:Parachute Enable 22:Parachute Release 23:Parachute 3pos 24:Auto Mission Reset 25:AttCon Feed Forward 26:AttCon Accel Limits 27:Retract Mount 28:Relay On/Off 29:Landing Gear 30:Lost Copter Sound 31:Motor Emergency Stop 32:Motor Interlock 33:Brake
CH9_OPT	0		0:Do Nothing 2:Flip 3:Simple Mode 4:RTL 5:Save Trim 7:Save WP 9:Camera Trigger 10:RangeFinder 11:Fence 12:ResetToArmedYaw 13:Super Simple Mode 14:Acro Trainer 16:Auto 17:AutoTune 18:Land 19:EPM 21:Parachute Enable 22:Parachute Release 23:Parachute 3pos 24:Auto Mission Reset 25:AttCon Feed Forward 26:AttCon Accel Limits 27:Retract Mount 28:Relay On/Off 29:Landing Gear 30:Lost Copter Sound 31:Motor Emergency Stop 32:Motor Interlock 33:Brake
			0:Disabled 1:RCPassThru 2:Flap 3:Flap_auto 4:Aileron 6:mount_pan 7:mount_tilt 8:mount_roll 9:mount_open 10:camera_trigger 11:release 12:mount2_pan 13:mount2_tilt 14:mount2_roll 15:mount2_open 16:DifferentialSpoiler1 17:DifferentialSpoiler2

Also check this value, thats the pin of the Pixhawk that we use for triggering. It's pin5 in this example.

RC7_FUNCTION	0		0:Disabled 1:RCPassThru 2:Flap 3:Flap_auto 4:Aileron 6:mount_pan 7:mount_tilt 8:mount_roll 9:mount_open 10:camera_trigger 11:release 12:mount2_pan 13:mount2_tilt 14:mount2_roll 15:mount2_open 16:DifferentialSpoiler1 17:DifferentialSpoiler2 18:AileronWithInput 19:Elevator 20:ElevatorWithInput 21:Rudder 24:Flaperon1 25:Flaperon2 26:GroundSteering 27:Parachute 28:EPM 29:LandingGear 30:EngineRunEnable
RC8_FUNCTION	0		0:Disabled 1:RCPassThru 2:Flap 3:Flap_auto 4:Aileron 6:mount_pan 7:mount_tilt 8:mount_roll 9:mount_open 10:camera_trigger 11:release 12:mount2_pan 13:mount2_tilt 14:mount2_roll 15:mount2_open 16:DifferentialSpoiler1 17:DifferentialSpoiler2 18:AileronWithInput 19:Elevator 20:ElevatorWithInput 21:Rudder 24:Flaperon1 25:Flaperon2 26:GroundSteering 27:Parachute 28:EPM 29:LandingGear 30:EngineRunEnable
RC9_FUNCTION	0		0:Disabled 1:RCPassThru 2:Flap 3:Flap_auto 4:Aileron 6:mount_pan 7:mount_tilt 8:mount_roll 9:mount_open 10:camera_trigger 11:release 12:mount2_pan 13:mount2_tilt 14:mount2_roll 15:mount2_open 16:DifferentialSpoiler1 17:DifferentialSpoiler2 18:AileronWithInput 19:Elevator 20:ElevatorWithInput 21:Rudder 24:Flaperon1 25:Flaperon2 26:GroundSteering 27:Parachute 28:EPM 29:LandingGear 30:EngineRunEnable
RELAY_PIN	54		-1:Disabled 13:APM2 A9 pin 47:APM1 relay 50:Pixhawk AUXOUT1 51:Pixhawk AUXOUT2 52:Pixhawk AUXOUT3 53:Pixhawk AUXOUT4 54:Pixhawk AUXOUT5 55:Pixhawk AUXOUT6 111:PX4 FMU Relay1 112:PX4 FMU Relay2 113:PX4IO Relay1 114:PX4IO Relay2 115:PX4IO ACC1 116:PX4IO ACC2