# User manual.

#### !! NOTE !!

### Indicator reference.

This user manual referent from VIS-T default setting only. Motogadget motoscope MINI / Motosign MINI display.

Display state.	Turn(MIX L+R).	High beam 🗐	N N	Oil pressure.
Neutral gear.			Always ON	
Side stand down. (Engine running.)			Continue blinking.	
High beam.		Always ON		
Heat grip step change.		Blinking.*as step.		
High temperature warning.		Continue blinking.		
Turn left. / Turn right.	Blink as same turn bulb.			
Low fuel.	Always ON			
Engine light.				Always ON
Oil pressure fail. (Engine running.)				Continue blinking.

**High temperature warning is highest prioritize.** - High beam and Heat grip step change will be ignore. **Oil pressure fail is highest prioritize.** - Engine light will be ignore.

**Heat grip step blinking.** Step 1 blink 1 time >> Step 2 blink 2 times.

VIS-T control setting. Info button setting / display.					
Press & hold info button on handle bar. Release to enter setting.		Operate	Indicator	Speed	RPM
Step sequence		100%		100	6000
		90%		90	5500
		80%		80	5000
		70%		70	4500
		60%	N.	60	4000
1 <b>N + ◀ + ■○</b>	Fuel check.	50%	]	50	3500
		40%		40	3000
	While indicator blinking.	30%	Blink:	30	2500
	Press info button to exit.	20%	- Punk	20	2000
		10%		10	1000
		0%		0	0
		RAIN	→N:EO:	20	2000
2 +	Ride mode.	ROAD	4+ED;N;	40	4000
		SPORT / OFF-ROAD	EN + ED	60	6000
3 <b>N + ≣</b> O	Traction control engage	TC ON (Active)	;EO+N;	20	2000
3 • • = •	Traction control operate.	TC OFF (Deactivated)	EEDE N	60	6000
	ABS operate.	ABS ON (Active)		20	2000
4 • • •		ABS OFF (Deactivated)	<b>3</b> ⊲ <b>5</b> N	60	6000
	Cancel None operate / Repeat process.				
peed / RPM can be disable display. **Speed display is KM/Hr by default.					

**Heat grip control.** Use OEM heated grip.

Press & hold heated grip switch for 1 second. High beam indicator will lid up. Heat grip is on.

Use VIS-T PROG software to set setting. See "Software instruction.PDF" for more information.

Press & Releash switch incress power to next step. Each step change  $\blacksquare$  will blink as step. 1 time step 1 > 2 times step 2. Press & hold heated grip switch for 2 seconds to turn off.

### **CLEAR ENGINE CODE.**

Ignition key to ON and OFF-RUN position to ON. Engine not running.

Press & hold info button over 10 seconds to access feature "CLEAR ENGINE CODE"

Indicator → +N+≣○ will blinking than release info button.

Wait until all indicator constant on.  $\blacktriangleleft \triangleright + \mathbb{N} + \boxed{\bigcirc}$  Done process. Than turn ignition key to OFF.

# Default VIS-T ouput setup for Motogadget motoscope MINI / Motosign MINI.

[Channel] VIS-T connectors.		Operate
[1] Info switch		Directed connect to Info button on handle bar.
[2] D+		Data+(A) USB tools signal.
[3] D-		Data- (B) USB tools signal.
[4] RPM		RPM signal.
[5] Speed		Speed signal.
[6] Oil pressure	Low drive.	Oil press (Blink) + Engine (ON/OFF)
[7] N / BUS	Low drive.	Neutral + Side stand.
[8] H-Beam	High drive.	High beam + Temp warn (Blink) + Heat grip (Blink)
[9] Turn	High drive.	Turn L+ R + Low fuel
[10] AUX1	High drive.	ABS INDC + OFF
[11] AUX2	Low drive.	SIDE STAND
[12] AUX3	Low drive.	TEMP WARNING
[13] AUX4	Low drive.	FUEL <= LOW FUEL +10% Blink
[14] AUX5	Low drive.	TC INDC + OFF
[15] AUX6	Low drive.	ENGINE
[16] + BATT		+12v Direct form positive battery. (Always power)
[17] + KEY		+12v Ignition key. (Power 12v while ignition key turn ON)
[18] Fuel		Drive 0-5 volts fuel leveling signal. *Adjust from software.
[19] GND		Ground

Wheel pulse / REV.	1	Turn flash	BLINK ON/OFF
Wheel diameter (mm)	2000	Cycle	1
RPM pulse / REV.	1	On time	500
Speed type.	KM/Hr	Off time	500
RPM Flash @REV.	6500	Off hold time	500 *Not in use.
RPM Flash speed.	150	Turn flasher can adjust timing as user decide.	

Fuel / Temp / Heat grip			
Full level.	5.0 Volts. *Not use.	Heat grip step.	2
Empty level.	1.0 Volts. *Not use.	Step 1	50%
Low fuel warning.	ECU	Step 2	100%
Warning temperature.	KM/Hr	Step 3	-
Oil pressure midpoint.	50%	Step 4	-

# Continue.

Info / Mode control		
Fuel level.	RPM & Speed	Ignition ON.
Traction control	RPM & Speed	Last setting.
ABS	RPM & Speed	Last setting. *Some models bike will be DISABLE.
Ride mode	RPM & Speed	Last setting. *Some models bike will be DISABLE.

Driver test Speed / RPM calibrate.		
RPM calibrate.	0	[ ] Minus. *unchecked
Speed calibrate.	0	[ ] Minus. *unchecked

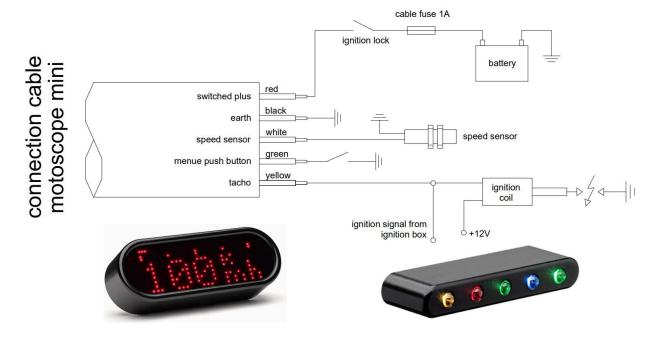
Wiring diagram motoscope mini.			
[Channel] VIS-T connectors.	Signal wire.	Wire color.	
[4] RPM	RPM signal.	Yellow	
[5] Speed	Speed signal.	White	
[17] + KEY	Switched plus.	Red	
[19] GND	Earth.	Black	
[19] GND Button Green	Push button.	Green	
All wire from gauge can direct connect to VIS-T.			

Wiring diagram motosign mini.		
[Channel] VIS-T connectors.	Wire color.	
[6] Oil pressure	Violett	
[7] N / BUS	Black	
[8] H-Beam	Green	
[9] Turn	Red	
[10] AUX1 (ABS indicator)	Blue	
[17] + KEY	White, brown	
[19] GND	Orange, yellow	



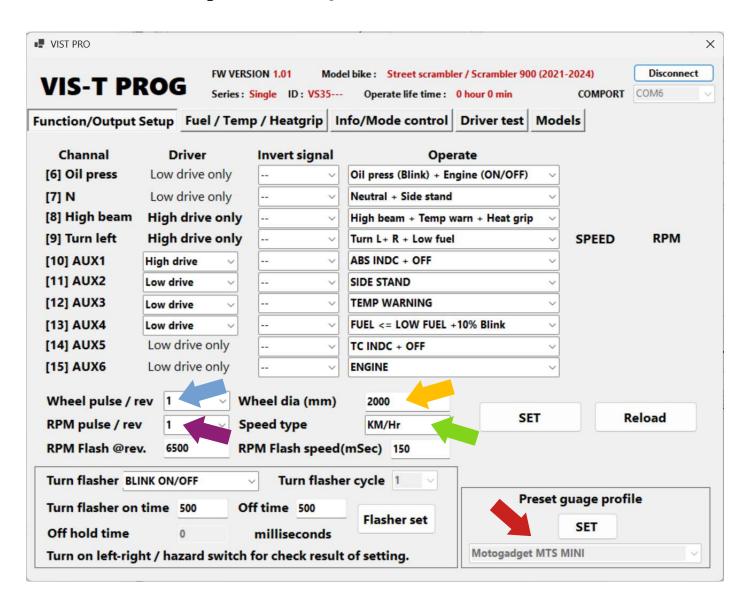
# Motosign mini instruction. (Reference only.)

cable color	function	polarity
red	turn left	+12V
blue	turn right	+12V
orange	turn earth	Masse
green	high beam	+12V
yellow	high beam	Masse
white	neutral	+12V
black	neutral	Masse
brown	oil pressure	+12V
violett	oil pressure	Masse



Motogadget motoscope mini setting value.		
Motogadget motoscope mini SETUP. Value		
CIRC	<b>2000</b> * This value not circular of tire. Set same as VIS-T prog.	
ImpW	1	
ImpE	1	
ImpF	A	
SEL	KM *Default is kilometers.	

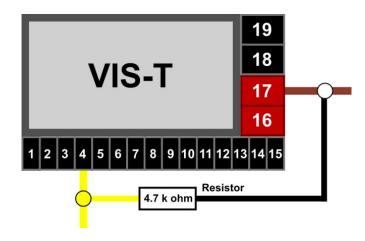
VIS-T PROG Preset setting. \*\* For more description detail / instruction of software PDF available in website.



# Improve RPM signal.

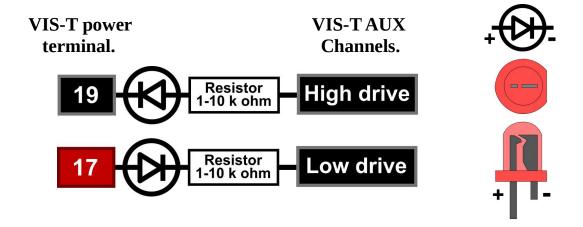
For motogadget RPM wire not required external resistor to drive 12volt signal. No need to add resistor.

Some issue appeared after engine running get RPM swing up/down or not stable. Make sure setup guage **ImpF** is **A** \*default. Or Set another B, C and D of fillter signal. Add resistor series on wiring below. Help to improve RPM signal driving to gauge.



### External LED for VIS-T AUX channels.

High or Low drive should wiring as circuit below. Led polarity is important.



#### ABS control available on models.

Street scrambler (2016-2018), Thruxton and Thruxton R.

#### Ride mode.

Sport mode Thruxton, Thruxton R, Thruxton RS and Speed twin 1200.

Off-road mode Street scrambler (2019-2020), Street scrambler (2021) and Scrambler 900(2021-2024).
Off-road mode operate will force ABS & TC to OFF. \*Road & Rain mode. Traction control using last setting.