SENSORS

	TRAFICAM2	TRAFIONE	TRAFICAM X-STREAM2	THERMICAM2
Product number	Wide: 10-6090A Narrow: 10-6091A	195 (wide): 10-7070 156 (narrow): 10-7075	Wide: 10-7150 Narrow: 10-7151	390: 10-7430, 345: 10-7432, 335: 10-7434, 325: 10-7436, 317: 10-7438
Detection Functionalities				
Vehicle presence	8 zones	8 zones (Stop Bar only)	24 zones	32 zones
Traffic data & flow monitoring	-	-	8 zones	8 zones
Queue length detection	-	-	-	8 zones
Bike detection	-	-	-	8 zones
Wrong way drivers	-	-	-	8 zones
Pedestrian detection (crossing or waiting)	-	8 zones	-	8 zones
Detection algo	Video analytics	Video analytics	Video analytics	Video analytics
Dilemma zone protection	-	-	-	-
License/Cloud Connection				
Premium license	-	-	-	x
Wrong way driver	-	-	-	x
Acyclica - VSO license	-	x	x	x
Acyclica - Travel time calculation	-	x	x	x
Communication & Integration				
Communication interface	RS485	Ethernet, BPL, Wi-Fi	Ethernet, BPL, Wi-Fi	Ethernet, BPL, Wi-Fi
Integration protocol	-	Public API	Public API	Public API
Output configuration	Via Interface	2 (1 NO, 1NC) or via BPL interface	2 (1 NO, 1 NC) or via BPL interface	2 (1 NO, 1 NC) or via BPL interface
Thermal Sensor				
HFOV & focal distance	-	195: 95° (1.23 mm), 156: 56° (1.93 mm)	-	390: 90° (7.5 mm), 345: 45° (8 mm), 335: 35° (9 mm) 325: 25° (13 mm), 317: 17° (19 mm)
Resolution	-	160 × 120	-	336 × 256
Visual Sensor				
Field of view	Wide: ~99° (2.1 mm) Narrow: ~32° (6.0 mm)	95° (2.1 mm)	Wide: ~99° (2.1 mm) Narrow: ~32° (6.0 mm)	-
Maximum resolution	640 × 480	1920 × 1080	640 × 480	-
Sensor type	1/4 black & white CMOS	1/4 color CMOS	1/4 color CMOS	-
Streaming Capabilities				
Number of streams	-	3	2	2
Encoding standards	JPEG	MPEG-4 H.264, MJPEG	MPEG-4 H.264, MJPEG	MJPEG H.264
Hardware				
Housing material	Aluminum	Aluminum	Aluminum	Aluminum
Sunshield	Optional	Optional	Optional	Standard, integrated
Power				
Power connection	Separate connection	BPL, separate connection, Power over Ethernet	BPL, separate connection Power over Ethernet	BPL, separate connection Power over Ethernet
Voltage range	12–24 VAC/DC	12–42 VAC/DC	24–42 VAC, 24–48 VDC	24–42 VAC, 24–48 VDC
Power consumption	Average power: <1.2 W	Average power: <6 W Peak power: <7 W	Average power: <6 W Peak power: <9 W	Average power: <7.5 W Peak power: <12 W
Installation Details				
Detection distances for presence	For vehicle: Wide: 0–25 m, Narrow: 15–70 m	For vehicle stop bar: 195: 0–15 m, 156: 10–25 m For pedestrians: 195: 0–12 m, 156: 10–20 m	For vehicle: Wide: 0–25 m, Narrow: 15–75 m	For vehicle: 390: 0–25 m, 345: 5–50 m, 335: 15–75 m, 325: 30–90 m, 317: 45–120 m
Mounting height	3.5–12 m	156: 3.5–6 m, 195: 5.5–8 m	3.5–12 m	3.5–12 m
Setup tool	TrafiCam PC Tool V3.02.P02	Web interface, TCT V1.24.PXX	Web interface, TCT V1.24.PXX	Web interface, TCT V1.24.PXX
Interface compatibility	1TI, 4TI ETH	TI BPL2, TI BPL3, PoE Interface	TI BPL2, PoE Interface	TI BPL2, PoE Interface

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SENSORS

	TRAFICAM AI	NON WIFI	THERMICAM AI	NON WIFI	TRAFIRADAR
Product number	Wide: 10-7710 Narrow: 10-7715	Wide: 10-7711 Narrow: 10-7716	390: 10-7730, 345: 10-7732, 335: 10-7734, 325: 10-7736	390: 10-7731, 345: 10-7733, 335: 10-7735, 325: 10-7737	BPL: 10-6066U
Detection Functionalities					
Vehicle presence	Yes (by class)	Yes (by class)	Yes (by class)	Yes (by class)	24 zones (64 radar based)
Traffic data & flow monitoring	Yes (+ Position. Speed. Heading.)	Yes (+ Position. Speed. Heading.)	Yes (+ Position. Speed. Heading.)	Yes (+ Position. Speed. Heading.)	8 zones
Queue length detection	Yes (by class)	Yes (by class)	Yes (by class)	Yes (by class)	6 zones
Bike detection	Yes (as Moto+)	Yes (as Moto+)	Yes (as Moto+)	Yes (as Moto+)	-
Wrong way drivers	Yes (by class)	Yes (by class)	Yes (by class)	Yes (by class)	-
Pedestrian detection (crossing or waiting)	Yes (as Moto+)	Yes (as Moto+)	Yes (as Moto+)	Yes (as Moto+)	-
Detection algo	Deep learning/Video analytics*	Deep learning/Video analytics*	Deep learning/Video analytics*	Deep learning/Video analytics*	-
Dilemma zone protection	-	-	-	-	8 zones
License/Cloud Connection					
Premium license	x	x	x	x	x
Wrong way driver	x	x	x	x	x
Acyclica - VSO license	x	x	x	x	x
Acyclica - Travel time calculation	x	-	x	-	x
Communication & Integration					
Communication interface	Ethernet, BPL, Wi-Fi	Ethernet, BPL	Ethernet, BPL, Wi-Fi	Ethernet, BPL	BPL
Integration protocol	Public API	Public API	Public API	Public API	XML2
Output configuration	2 (1 NO, 1 NC) or via BPL interface	2 (1 NO, 1 NC) or via BPL interface	2 (1 NO, 1 NC) or via BPL interface	2 (1 NO, 1 NC) or via BPL interface	Via BPL interface
Thermal Sensor					
HFOV & focal distance	-	-	390: 90° (7.5 mm), 345: 45° (8 mm) 335: 35° (9 mm), 325: 25° (13 mm)	390: 90° (7.5 mm), 345: 45° (8 mm) 335: 35° (9 mm), 325: 25° (13 mm)	-
Resolution	-	-	336 × 256	336 × 256	-
Visual Sensor					
Field of view	Wide: ~95° (2.8 mm) Narrow: ~32° (8.0 mm)	Wide: ~95° (2.8 mm) Narrow: ~32° (8.0 mm)	-	-	75° (2.1 mm) with digital zoom
Maximum resolution	1920 × 1080	1920 × 1080	-	-	5 Megapixel (scaled to VGA)
Sensor type	CMOS Type 1/2.8 color High Dynamic Range	CMOS Type 1/2.8 color High Dynamic Range	-	-	1/4 color CMOS
Streaming Capabilities					
Number of streams	2	2	2	2	2
Encoding standards	MJPEG H.264/H265	MJPEG H.264/H265	MJPEG H.264/H265	MJPEG H.264/H265	MJPEG H.264
Hardware					
Housing material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Sunshield	Standard, integrated	Standard, integrated	Standard, integrated	Standard, integrated	Standard, integrated
Power					
Power connection	BPL, separate connection Power over Ethernet	BPL, separate connection, Power over Ethernet	BPL, separate connection, Power over Ethernet	BPL, separate connection, Power over Ethernet	BPL
Voltage range	24–42 VAC, 24–48 VDC	24–42 VAC, 24–48 VDC	24—42 VAC, 24—48 VDC	24–42 VAC, 24–48 VDC	12–30 VAC, 12–42 VDC
Power consumption	Average power: <9.5 W Peak power: <14 W	Average power: <9.5 W Peak power: <14 W	Average power: <9.5 W Peak power: <14 W	Average power: <9.5 W Peak power: <14 W	Average power: <7 W Peak power: <8.5 W
Installation Details					
Detection distances for presence	For vehicle: Wide: 0—75 m, Narrow: 75—150 m	For vehicle: Wide: 0—75 m, Narrow: 75—150 m	For vehicle: 390: 0—60 m, 345: 10—80 m, 335: 20—100 m, 325: 30—125 m	For vehicle: 390: 0—60 m, 345: 10—80 m, 335: 20—100 m, 325: 30—125 m	For vehicle: 10—300 m (depends on zoom & radar position)
Mounting height	3.5—12 m	3.5—12 m	3.5—12 m	3.5—12 m	6—10 m
Setup tool	Web interface, TCT2 V1	Web interface, TCT2 V1	Web interface, TCT2 V1	Web interface, TCT2 V1	TCT V1.24.PXX
Interface compatibility	TI BPL3, PoE Interface	TI BPL3, PoE Interface	TI BPL3, PoE Interface	TI BPL3, PoE Interface	TI x-Stream, TI XP

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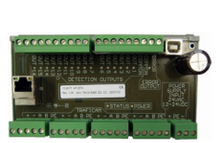
INTERFACES

	 1TI	 4TI ETH	 POE INTERFACE	 TI BPL2	 TI BPL3
Ordering Information					
Product number	10-6078	10-6077	10-7320	10-7085	10-7720
Connections					
Sensor connections	1	4	1	8	4 (8 TrafiOne)
Sensor communication	RS485	RS485	ETH	BPL	BPL
Detection outputs	4	16	1 (Error output can be also used as 2nd detection output)	16	16
Error outputs	1	1	1	4	4
Power					
Power connection	Separate connection	Separate connection	Separate connection	Separate connection	Separate connection
Voltage range	12–30 VAC 12–42 VDC	12–30 VAC 12–42 VDC	24–48 VDC	12–30 VAC 12–42 VDC	12–30 VAC 12–42 VDC
Power consumption	Average power: <2 W	Average power: <2 W	Average power: <2 W	Average power: <3 W	Average power: <3 W
Sensor Compatibility					
TrafiCam2	x	x	-	-	-
TrafiOne	-	-	x	x	Available in 2023
TrafiCam x-stream2	-	-	x	x	-
ThermiCam2	-	-	x	x	-
TrafiCam AI	-	-	x	-	x
ThermiCam AI	-	-	x	-	x

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