

FLIR Trafibot / Trafibot HD

Box Cameras With Integrated Video Analytics

FLIR's Trafibot Series combines field-proven video detection algorithms with advanced camera optics and powerful processing technology in a single housing. Trafibot (with D1 resolution) and Trafibot HD (with 1920 x 1080 resolutions) are network box cameras that provide superior image quality, embedded AID analytics as well as multi-stream encoding. This combination of technologies makes for a very cost-effective solution which at the same time delivers top-level performance.

Trafibot's advanced processing unit generates traffic data and incident detection information and thus supports traffic operators with alerts on stopped vehicles, wrong-way drivers, pedestrians, lost cargo, smoke, and traffic flow data.

AUTOMATIC INCIDENT DETECTION

Traffic events

Stopped vehicle, Speed drop, Levels of service, Overspeed, Wrong-way drivers, Traffic congestion, Underspeed

Non-traffic events

Smoke in tunnel, Pedestrian, Fallen object

Technical alarms

Image quality, Camera tampering

TRAFFIC DATA COLLECTION

Traffic flow data per lane:

Traffic flow speed, zone occupancy

Integrated vehicle traffic data

Average speed per vehicle class per lane (headway, gap time per length, class per lane), occupancy

Individual vehicle traffic data

Speed, gap time, headway, vehicle classification

KEY BENEFITS

- ALL-IN-ONE, COST-EFFECTIVE CAMERA SOLUTION FOR AUTOMATIC INCIDENT DETECTION
- FIELD-PROVEN AID ALGORITHMS
- FOR INDOOR & OUTDOOR APPLICATIONS
- SUPERB IMAGE QUALITY
- MULTI-CODEC (H.264, MJPEG) AND MULTI-STREAMING
- ETHERNET, DIRECT OPTICAL FIBRE OR IP OVER COAX
- FOCUS-ASSIST FOR EASY & ACCURATE INSTALLATION
- ONVIF-COMPLIANT



Stopped vehicle



Inverse direction



Imaging Specifications

System Overview	TrafiBot	TrafiBot HD
Description	IP camera with embedded AID	Full HD IP camera with embedded AID
Video input	1/3" CMOS (Pixim Seawolf)	1/2.8" CMOS
Encoding format	H.264, MJPEG	H.264, MJPEG
Max. resolution	D1 @ 30 fps	Full HD (1920x1080) @ 30 fps
Multi-streaming	Dual streaming: H.264 (HP-MP) or MJPEG	Dual streaming: H.264 (HP-MP) or MJPEG
Max. Streams	Unicast and/or multicast, max 20	Unicast and/or multicast, max 20
Audio	1 full duplex stereo	1 full duplex stereo
Boards per rack	N/A	N/A
Power supply, outputs & communications		
Power	8W	7W
Stand-alone form	12V DC or 24V AC or 802.3af PoE	12V DC or 24V AC or 802.3af PoE
LAN connector type	10/100 Mbps RJ45 SFP for fibre or IP over coax (ECO)	10/100 Mbps RJ45 or SFP for fibre or IP over coax (ECO)
Digital inputs	2	2
Digital outputs	2	2
Data	RS232 or RS422/485	RS232 or RS422/485
PTZ control	Yes	Yes
Comm. Standards	ONVIF profile S, NTCIP, SNMP	ONVIF profile S, NTCIP, SNMP
Additional features		
AID	AID Customizable overlay Video motion detection Image monitor (quality measurement) Tamper detection Privacy masks	AID Customizable overlay Video motion detection Image monitor (quality measurement) Tamper detection Privacy masks
Operating temperature	-30 °C to +50 °C -22 °F to +122 °F	-30 °C to +50 °C -22 °F to +122 °F
	-30 °C to +50 °C	
MTBF	> 300,000 hrs	> 300,000 hrs
Dimensions (HxVxD)	64 mm x 64 mm x 150mm	64 mm x 64 mm x 150mm
Weight	390 g	390 g

PORTLAND
Corporate Headquarters
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

BELGIUM

FLIR Systems Trading
Belgium BVBA
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

FLIR ITS

Hospitaalweg 1B
B-8510 Marke
Belgium
PH: +32 (0)56 37 22 00

www.flir.com
NASDAQ: FLIR

SWEDEN

FLIR Systems AB
Antennvägen 6,
PO Box 7376
SE-187 66 Täby
Sweden
PH: +46 (0)8 753 25 00

SANTA BARBARA

FLIR Systems, Inc.
70 Castilian Drive.
Goleta, CA 93117
USA
Ph: +1 866.477.3687

UK

FLIR Systems UK
2 Kings Hill Avenue
Kings Hill
West Malling - Kent
ME19 4AQ
United Kingdom
PH: +44 (0)1732 220 011

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