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ioimage

ioi
Product Selection Matrix





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ioi Intelligent Video Encoders with Built-in Video Analytics General Features

Product ⁽¹⁾	Name	Mounting	Ch.	Resolution ⁽²⁾	Compression	External Interfaces		Serial Communication		Power	
						Alarm (In)	Relay (Out)	RS-485	RS-232	DC (V)	AC (V)
	trk-101	Shelf/Rack/Wall	1	D1, 4CIF, VGA, 2CIF, CIF	H.264 MPEG-4 SP, MJPEG	1	1	-	-	12	24
	trk-101-P	Shelf/Rack/Wall	1	D1, 4CIF, VGA, 2CIF, CIF	H.264 MPEG-4 SP, MJPEG	1	1	1	-	12	24
	trk4000d	Rack	4	4CIF, CIF	MPEG-4 SP MJPEG	8	8	4	8	-	88-264
	trk8000	Rack	8	CIF	MPEG-4 SP MJPEG	8	8	4	8	-	88-264

ioi Intelligent Video Encoders with Built-in Video Analytics Analytic Capabilities*




Product ⁽¹⁾	Name	Firmware Version	PTZ Tracking ^(5, 6)	PTZ Sync ⁽⁷⁾	Storage on the Edge ⁽⁸⁾	Site Viewer	ioimage IP	Batch Solo Setup ⁽⁹⁾	Reduced False Alarms	Improved Analytic Distance
	trk-101	2.1.2.129	-	-	√	√	√	√	√	√
	trk-101-P	2.1.2.129	√	√	√	√	√	√	√	√
	trk4000d	1.5.7.334	√	√	-	-	-	-	-	-
	trk8000	1.5.7.334	√	√	-	-	-	-	-	-

* All units support Region Entrance ⁽³⁾, Tripwire, Fence Trespassing, Loitering Detection, Camera Tampering, Unattended Baggage, Stopped Vehicle, Object Removal, and Solo Setup ⁽⁴⁾.

ioi Encoder Notes

1. All ioi encoders include:
 - Support for analog video source (PAL or NTSC)
 - Hybrid IP video streaming or analog video output
 - Embedded HTML server for setup/configuration from a standard browser
 - Live video monitoring from a standard browser
 - Built-in video analytics (as per table above)
 - Full frame support (25FPS PAL/30FPS NTSC)
 - Configurable bit rate
 - Automatic responses following pre-defined events
 - Scheduler
2. Resolution per channel (MPEG-4 SP and MJPEG): 25FPS PAL/30FPS NTSC. H.264 is supported only by trk-101 and trk-101-P at 12/15 FPS in D1 and 25/30 FPS in 2CIF.
3. Region entrance/Intrusion detection: human and/or vehicle entrance to the scene or user-defined region in all or a specified direction.
4. Solo Setup function: enables a user to install and set up a camera at the remote site without requiring another person's assistance.
5. Autonomous Pan/Tilt/Zoom tracking of detected object: detection from a PTZ camera's own presets or automatic handoff from a stationary camera or manual object selection (when using Site Viewer).
6. For a list of supported PTZ camera models, download the *Supported PTZ Cameras* document from the Downloads tab at <http://www.dvtel.com/products-solutions/video-analytics/encoders/ioimage-ptz-tracker>.
7. Detection from stationary camera and automatic handoff to PTZ camera for autonomous PTZ tracking of detected object.
8. Units with Storage on the Edge include built-in flash memory, which can store approximately 3,800Mb of video clips and recordings.
9. Batch Solo Setup enables recording on units that do not support batch recording if this unit is on the network.

ioi Intelligent Video Cameras with Built-in Video Analytics General Features*

Product <small>(10, 11)</small>	Name	Description	Max. Res.	Compression	ONVIF Profile S	Batch Solo Setup ⁽⁹⁾	Camera					Power
							Sensor	Dynamic Range	Sensitivity	Day/Night Modes	White Balance	PoE
	CF-5212	H.264 day/night IP camera with built-in video analytics	HD 720p	H.264, MJPEG	✓	-	1/3" 1.3MP CMOS	120dB	0.1 lux (B/W) @ 15FPS, F1.4	Automatic On/Off Smart	Auto	✓
	CF-5222	H.264 day/night IP camera with built-in video analytics	Full HD 1080p	H.264, MJPEG	✓	-	1/2.8" 2.1MP CMOS	96dB	0.2 lux (B/W) @ 15FPS, F1.4	Automatic On/Off Smart	Auto	✓
	sc1dn-S	H.264 day/night IP camera with built-in video analytics	D1	H.264, MPEG-4 SP MJPEG	-	✓	1/4" CMOS 640 (H) x 480 (V)	80dB	With F.14 lens: 0.3 lux (B/W) @ 30FPS; 0.2 lux (B/W) @15FPS	Automatic Manual Off	Auto Manual	-

*All units include Analog Video Out, IR Filter, Auto Iris (DC), AGC, 24VAC, 12VDC, CS lens mount, one dry contact (in), one relay (out), Region Entrance⁽³⁾, Tripwire, Fence Trespassing, Loitering Detection, Camera Tampering, Unattended Baggage, Stopped Vehicle, Object Removal, Solo Setup⁽⁴⁾, Reduced False Alarms, and DSS⁽¹²⁾. Storage on the Edge and Site Viewer are supported by sc1dn-S only.

ioi Camera Notes







10. All ioi cameras include:

- Hybrid video out: supporting both IP streaming (H.264, MPEG-4 SP and MJPEG) and analog video output.
- Full frame rate support: 25/30 FPS (PAL/NTSC).
- Configurable bit rate.
- Embedded HTML server for setup/configuration from a standard browser.
- Automatic responses following pre-defined events.
- Scheduler
- Built-in video analytics (as per table above): the items requiring additional explanation are detailed below:
 - Region: Region entrance/intrusion detection (human and/or vehicle entrance to the scene or user-defined region in all directions or in a specified direction)
 - Tracking: Tracking of a detected object








11. Cameras are not supplied with lenses. They can be purchased as a separate accessory item. See [Lens Accessories](#) in the next section.

12. Digital Slow Shutter (DSS)/Night Mode Max FPS: enables control of the sensor exposure time in order to enhance low-light sensitivity.

Lens Accessories

Image	Description	Part Number	DVTEL Product
	3.0-8.5 mm, F1.2, 1/3", SD, IR-corrected, auto iris lens, CS-Mount.	CF-L101-03	For sc1dn-S cameras
	7.5-50 mm, F1.3, 1/3", SD, IR-corrected, auto iris lens, CS-Mount.	CF-L101-75	
	5MP 8-50mm, f1.6, 1/2.7", auto iris, IR-corrected, CS-Mount.	CF-L131-08-50	For ioimage HD CF-5212 and CF-5222 cameras
	5MP 3.1-8mm, f1.2, 1/2.7", auto iris, IR-corrected, CS-Mount.	CF-L131-31	
	5MP 8-80mm, f1.4, 1/2", auto iris, IR-corrected, C-Mount. Includes C- to CS-Mount adapter.	CF-L131-08	
	5MP 12.5-50mm, f1.4, 1/2.7", auto iris, IR-corrected, CS-Mount.	CF-L131-12	

Miscellaneous Accessories

Type	Image	Description	Part Number	DVTEL Product
Power Supplies		110/220 VAC input/12 VDC, 40W output power supply	DVT-PWR-40W	For sc1dn-S
		Outdoor 110/220 VAC input/24 VAC, 100 VA, 3A output power supply	CX-PRWR-241	For sc1dn-S
		110/220 VAC input/12 VDC, 275W output rack-mount power supply	DVT-PWR-275RM1	For up to 20 trk-101/ trk-101-P
		Dual 110/220 VAC input/12 VDC at 275W (550W total) rack-mount power supply	DVT-PWR-275RM2	For up to 40 trk-101/ trk-101-P
Rack-Mounting Panel		trk-101/trk-101-P multi-unit rack mounting panel for up to 10 units	ACC-PNL-TRK101	For trk-101/trk-101-P
Camera Housing		IP66 outdoor camera housing. For camera and lens up to 8.75 x 3.75 x 3" (222 x 95 x 76mm) L x W x H. Dimensions: 13.4 x 5.5 x 4.4" (340 x 140 x 112mm) L x W x H. Weight: 1.51Kg/3.4 lbs. Includes heater and blower, 24 VAC @20W. Temperature range: -30 to +50C (-22 to +122F)	CF-X200-01	For ioimage HD CF-5212 and CF-5222 and sc1dn-S
Mounting Bracket		Pole mount for CF-X200-01 camera housing Ø 2.5-8.5" (64-216mm)	CF-X200-POLE	For ioimage HD CF-5212 and CF-5222 and sc1dn-S

VMS Compatibility

Name	Product Name
trk-101	Latitude Version 6.2.1.11 and above. Horizon and Meridian Version 6.3 SP1 and above. NOTE: ioimage IP is supported only on Latitude from Version 6.3 CP1 and above.
trk-101-P	Latitude Update over 6.3 CP1 version 6.3.0.4136. United 6.4 for Latitude, Horizon and Meridian.
sc1dn-S	Latitude Version 6.2.1.11 and above. Horizon and Meridian Version 6.3 SP1 and above.
trk4000d	Latitude Version 6.2.1.16 with patch "LatitudeUpdate_6.2.1.1613.exe". Horizon and Meridian Version 6.3 SP1 and above.
trk8000	Latitude Version 6.2.1.16 with patch "LatitudeUpdate_6.2.1.1613.exe". Horizon and Meridian Version 6.3 SP1 and above.
CF-5212	Latitude Update over CP1, version 6.3.0.4135 United 6.4 for Latitude, Horizon and Meridian.
CF-5222	Latitude Update over CP1, version 6.3.0.4135 United 6.4 for Latitude, Horizon and Meridian.

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To request the latest versions of firmware and software or to download other product-related documents, visit <http://www.dvstel.com/support>. If you have obtained a login go to our [support gateway](http://www.dvstel.com/support). For assistance, email us at support@dvstel.com or phone 1-888-DVTEL77.