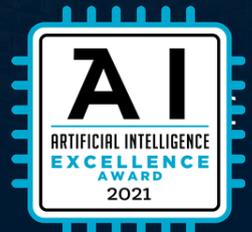


TURING



PRODUCT CATALOG 2021

FOREFRONT OF AI SECURITY



Solutions that Transform a Business

Turing was founded on innovation – and that drives us to deliver the most advanced AI-driven video surveillance and workplace safety solutions available in the market. Our industry-leading, NDAA-compliant products offer customers a full view of their business to transform their safety, security, and analytic capabilities. All solutions can be monitored from a centralized management platform to deliver the most comprehensive system for safety, security, and analytics.

Our extensive North American team is dispersed across the U.S. and Canada to offer regionalized hands-on sales and product support. Every team member is focused on our partners and on delivering the most cutting-edge solutions and support. We know your partnership is critical to our success, and our products and program were developed to support your entire sales process.

In our product catalog you will find the latest in NDAA-compliant surveillance technology including our Smart and Advantage series IP cameras and NVRs. They can be paired with our Turing Vision AI-analytics platform, which features a large variety of highly intelligent AI algorithms. Lastly, our Turing Shield thermographic scanner delivers advanced features that align with CDC recommendations for workplace safety protocols.



SMART

IP Camera and NVR SERIES

Turing Smart Series are at the forefront of AI security. These cameras are state of the art, intelligent, durable, and have enhanced features that include:

- ✓ **TwilightVision** allows for optimal image clarity in low light
- ✓ **VibrantView** allows for optimal color clarity in low light
- ✓ Motion detection and 5MP/8MP resolution
- ✓ NDA Compliant
- ✓ Smart IR improves image resolution
- ✓ NVR's have 4CH/8CH/16CH/32CH, smart search, and playback capabilities
- ✓ View pages 27 and 28 for SKU Number Identification



TURING | Smart Series



SKU	TP-MMD5AV2	TP-MVD5MV2	TP-MFD5A28	TP-MFD8M28
TWILIGHTVISION / VIBRANTVIEW	TWILIGHTVISION	TWILIGHTVISION	TWILIGHTVISION	TWILIGHTVISION
RESOLUTION	5MP	5MP	5MP	8MP
SENSOR SIZE	1/2.7" progressive scan, CMOS	1/2.7" progressive scan, CMOS	1/2.7" progressive scan, CMOS	1/2.7" progressive scan, CMOS
LENS	2.7 ~ 13.5mm, AF automatic focusing and motorized zoom lens	2.7 ~ 13.5mm, AF automatic focusing and motorized zoom lens	2.8mm@F1.6	2.8mm@F2.0
MIN ILLUMINATION	Color: 0.002Lux (F1.2, AGC ON) 0Lux with IR on	Color: 0.002Lux (F1.2, AGC ON) 0Lux with IR on	Color: 0.003 Lux (F1.6, AGC ON) 0Lux with IR	Color: 0.003Lux (F1.6, AGC ON) 0Lux with IR
IMAGE ENHANCEMENT	120dB true WDR technology	120dB true WDR technology	120dB true WDR technology	120dB true WDR technology
FRAME RATE @ RESOLUTION	5MP (2880x1620) @ 30/25fps	5MP (2880x1620) @ 30/25fps	5MP (2880x1620) @ 30/25fps	8MP (3840x2160) @ 20fps
SMART IR	✓	✓	✓	✓
MOTION DETECTION	✓	✓	✓	✓
PRIVACY MASKING	✓	✓	✓	✓
MICROPHONE	✓	✓	N/A	✓
AUDIO SUPPRESSION	1/1	N/A	1/1	1/1
SD CARD SLOT SIZE	256G	256G	256G	256G
INTELLIGENCE FUNCTION	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection.	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection
NETWORK INTERFACE	1 RJ45 10M/100M Base-TX Ethernet	1 RJ45 10M/100M Base-TX Ethernet	1 RJ45 10M/100M Base-TX Ethernet	1 RJ45 10M/100M Base-TX Ethernet
RESET BUTTON	✓	✓	N/A	N/A
POWER SUPPLY	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)
INGRESS PROTECTION	IP67	IP67	IP67	IP67
WORKING ENVIRONMENT	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
WEIGHT	0.97kg (2.12lbs.)	0.70kg (1.52lbs.)	0.425kg (0.93lbs.)	0.43kg (0.95lbs.)
POWER CONSUMPTION	Max 7.0 W	Max 7.0 W	Max 4.5 W	Max 6.0 W
CERTIFICATIONS	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15
DIMENSIONS (H x W x D)	148.0 x 111.4mm (5.8 x 4.4")	129 x 110mm (5.1 x 4.3")	108.7 x 81.1mm (4.3 x 3.2")	109 x 83mm (4.3 x 3.3")
ACCESSORIES	TP-MDJB, TP-AIPMB, TP-IPME2, TP-IPME5, TP-IPME2, TP-IPME5, TP-MDRM, TP-UWPJ	TP-VDJB, TP-VDWM, TP-UWPJ, TP-UDPM, TP-IPME2, TP-IPME5, TP-AIPMB	TP-EFDJB, TP-AIPMB, TP-IPME2, TP-IPME5, TP-IPME2, TP-IPME5, TP-EFDTM, TP-EFDWM, TP-UDPM, TP-UWPJ	TP-EFDJB, TP-AIPMB, TP-IPME2, TP-IPME5, TP-IPME2, TP-IPME5, TP-EFDTM, TP-EFDWM, TP-UDPM, TP-UWPJ
ACTIVE DETERRENCE	N/A	N/A	N/A	N/A





SKU	TP-MFB5M28	TP-MBAD8M28	TP-MFB5A4C	TP-MMB5AV2
TWILIGHTVISION / VIBRANTVIEW	TWILIGHTVISION	N/A	VIBRANTVIEW	TWILIGHTVISION
RESOLUTION	5MP	8MP	5MP	5MP
SENSOR SIZE	1/2.7" progressive scan, CMOS			
LENS	2.8 mm, @F1.6	2.8mm@F2.0	4.0mm@F1.0	2.7 ~ 13.5mm, AF automatic focusing and motorized zoom lens
MIN ILLUMINATION	Color: 0.003Lux F/1.6 AGC ON B/W: 0Lux with IR	Color: 0.01Lux (F2.0, AGC ON) 0Lux with IR on	Color: 0.001Lux (F1.0, AGC ON)	Color: 0.002Lux (F1.2, AGC ON) 0Lux with IR on
IMAGE ENHANCEMENT	HLC, BLC, WDR, Defog, OSD	120dB true WDR technology	120dB true WDR technology	120dB true WDR technology
FRAME RATE @ RESOLUTION	5MP (2880x1620) @ 30fps	8MP (3840x2160) @20fps	5MP (2880x1620) @30/25fps	5MP (2880x1620) @ 30/25fps
SMART IR	✓	✓	✓	✓
MOTION DETECTION	✓	✓	✓	✓
PRIVACY MASKING	✓	✓	✓	✓
MICROPHONE	✓	✓	N/A	N/A
AUDIO SUPPRESSION	1/1	N/A	1/1	1/1
SD CARD SLOT SIZE	256G	256G	256G	256G
INTELLIGENCE FUNCTION	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection
NETWORK INTERFACE	1 RJ45 10M/100M Base-TX Ethernet			
RESET BUTTON	✓	✓	N/A	N/A
POWER SUPPLY	12V DC, PoE (802.3af)			
INGRESS PROTECTION	IP67	IP67	IP67	IP67
WORKING ENVIRONMENT	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
WEIGHT	0.425 kg (0.93 lbs.)	0.41kg (0.90lbs.)	0.92kg (2.02lbs.)	0.92kg (2.0lbs.)
POWER CONSUMPTION	Max 5 W	Max 10.5 W	Max 9.0 W	Max 8.0 W
CERTIFICATIONS	CE/UL/FCC	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15
DIMENSIONS (H x W x D)	155.9 x 63.1 x 62.7 mm (6.1 x 2.5 x 2.5")	191 x 75 x 74mm (7.5 x 3.0 x 2.9")	246 x 86 x 85mm (9.7 x 3.4 x 3.3")	245 x 86 x 72mm (9.6 x 3.4 x 2.8")
ACCESSORIES	TP-FSBJB, TP-UWPJ, TP-FCBPM	TP-FSBJB, TP-UWPJ, TP-FCBPM	TP-FCBJB, TP-UWPJ, TP-FCBPM	TP-MBJB, TP-UWPJ, TP-FCBPM
ACTIVE DETERRENCE	N/A	Strobe light and Audio	N/A	N/A





SKU	TP-MED8M28	TP-MED5M28	TP-MED5M28C
TWILIGHTVISION / VIBRANTVIEW	N/A	TWILIGHTVISION	VIBRANTVIEW
RESOLUTION	8MP	5MP	5MP
SENSOR SIZE	1/2.7" progressive scan, CMOS	1/2.7" progressive scan, CMOS	1/2.7" progressive scan, CMOS
LENS	2.8mm@F2.0	2.8mm@F1.6	2.8mm@F1.0
MIN ILLUMINATION	Color: 0.01Lux (F2.0, AGC ON) 0Lux with IR on	Color: 0.003 Lux (F1.6, AGC ON) 0Lux with IR	Color: 0.001Lux (F1.0, AGC ON) 0Lux with IR
IMAGE ENHANCEMENT	120dB true WDR technology	120dB true WDR technology	120dB true WDR technology
FRAME RATE @ RESOLUTION	8MP (3840x2160) @ 20fps	5MP (2880x1620) @ 30/25fps	5MP (2880x1620) @ 30/25fps
SMART IR	✓	✓	✓
MOTION DETECTION	✓	✓	✓
PRIVACY MASKING	✓	✓	✓
MICROPHONE	✓	✓	✓
AUDIO SUPPRESSION	N/A	N/A	N/A
SD CARD SLOT SIZE	256G	256G	256G
INTELLIGENCE FUNCTION	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection	Line crossing detection, intrusion detection, enter area detection, exit area detection, face capture, face/human/vehicle detection
NETWORK INTERFACE	1 RJ45 10M/100M Base-TX Ethernet	1 RJ45 10M/100M Base-TX Ethernet	1 RJ45 10M/100M Base-TX Ethernet
RESET BUTTON	N/A	N/A	N/A
POWER SUPPLY	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)
INGRESS PROTECTION	IP67	IP67	IP67
WORKING ENVIRONMENT	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
WEIGHT	0.44kg (0.97lbs.)	0.425kg (0.93lbs.)	0.425kg (0.93lbs.)
POWER CONSUMPTION	Max 5.0 W	Max 4.0 W	Max 4.0 W
CERTIFICATIONS	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15
DIMENSIONS (H x W x D)	110.5 x 94.1mm (4.4 x 3.7")	110.5 x 94.1mm (4.4 x 3.7")	110.5 x 94.1mm (4.4 x 3.7")
ACCESSORIES	TP-EFDJB, TP-EFDWM, TP-EFDTM, TP-UWPJ, TP-UDPM, TP-AIPMB, TP-IPME2, TP-IPME5	TP-EFDJB, TP-EFDWM, TP-EFDTM, TP-UWPJ, TP-UDPM, TP-AIPMB, TP-IPME2, TP-IPME5	TP-EFDJB, TP-EFDWM, TP-EFDTM, TP-UWPJ, TP-UDPM, TP-AIPMB, TP-IPME2, TP-IPME5
ACTIVE DETERRENCE	N/A	N/A	N/A





SKU	TR-MRP042T	TR-MRP082T	TR-MRP164T	TR-MRP328T
MAX RECORDING RESOLUTION	4K/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF	8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF	8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF	8MP/6MP/5MP/4MP/3MP/1080p/960p/720p/D1/2CIF/CIF
IP CAMERA INPUT	4-ch	8-ch	16-ch	32-ch
IP CAMERA POE PORTS	4	8	16	16
INPUT BANDWIDTH	80Mbps	160 Mbps	160 Mbps	160 Mbps
HDMI OUTPUT	Up to 3840x2160	Up to 3840x2160	Up to 3840x2160	Up to 3840x2160
VGA OUTPUT	Up to 1920x1080	Up to 1920x1080	Up to 1920x1080	Up to 1920x1080
OUTGOING BANDWIDTH	64 Mbps	64 Mbps	64 Mbps	64 Mbps
DECODING CAPACITY	Refer to Datasheet	Refer to Datasheet	Refer to Datasheet	Refer to Datasheet
HDD SLOTS	1 SATA interface	2 SATA interface	2 SATA interface	4 SATA interface
BUNDLED HDD	2 TB	2 TB	4 TB	8 TB
NETWORK INTERFACE	1 RJ45 10M/100M self-adaptive Ethernet Interface	1 x RJ45 1000M	1 x RJ45 1000M	2 x RJ45 1000M
USB INTERFACE	Rear panel: 1 x USB2.0, 1 x USB3.0	1 x USB2.0 1 x USB3.0	1 x USB2.0 1 x USB3.0	2 x USB2.0 1 x USB3.0
ALARM I/O	N/A	4/1	4/1	16/4
DUAL STREAM	✓	✓	✓	✓
CLOUD STORAGE	N/A	N/A	N/A	N/A
SMART SEARCH	✓	✓	✓	✓
PLAYBACK	4-ch	8-ch	16-ch	16-ch
POWER SUPPLY	110 VAC	100~240V AC	100~240V AC	12V DC, 5A
WORKING ENVIRONMENT	-10°C ~ + 55°C (+14°F ~ +131°F), Humidity ≤ 90% RH (non-condensing)	-10°C ~ 55°C (14°F ~ 131°F) 10% ~ 90% RH	-10°C ~ 55°C (14°F ~ 131°F) 10% ~ 90% RH	-10°C ~ 55°C (14°F ~ 131°F) 10% ~ 90% RH
WEIGHT	1kg (2.20lbs.)	2.6kg (5.73lbs.)	2.6kg (5.73lbs.)	3.15kg (6.94lbs.)
POWER CONSUMPTION	Power Consumption: ≤9 W (without HDD)	≤10W (without HDD)	≤10W (without HDD)	≤15W (without HDD)
CERTIFICATIONS	UL, CE, FCC, ICES	UL, CE, FCC, ICES	UL, CE, FCC, ICES	UL, CE, FCC, ICES
DIMENSIONS (H x W x D)	260 x 240 x 47mm (10.2 x 9.4 x 1.9")	380 x 315 x 53mm (15.0 x 12.4 x 2.1")	380 x 315 x 53mm (15.0 x 12.4 x 2.1")	440 x 344 x 50 (17.3 x 13.5 x 2.0")



TURING | Smart Series



SKU	TP-VDJB	TP-MDWM	TP-MDRM	TP-FCBJB
Material	Aluminum alloy	Aluminum alloy	Sheet metal and ABS	Aluminum alloy
Color	White	White	Sheet Metal	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Product Dimensions	126 x 36mm (4.96 x 1.42")	208 x 125 x 125mm (8.2 x 4.9 x 4.9")	235 x 63mm (9.3 x 2.5") In-ceiling hole: 195mm (7.67")	125 x 125 x 55mm (4.92 x 4.92x 2.17")
Product Weight	0.24kg (0.53lbs.)	0.48kg (1.1lbs.)	0.49kg (1.1lbs.)	0.75kg (1.65lbs.)



SKU	TP-EFDWM	TP-VDWM	TP-FCBPM	TP-UDPM
Material	Aluminum alloy	Aluminum alloy	Aluminum alloy	Galvanized sheet
Color	White	White	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Product Dimensions	126.7 x 126.4 x 183.4mm (4.99 x 4.98 x 7.22")	126 x 126 x 188mm (5 x 5 x 7.4")	67 x 127mm (2.6 x 5")	67 x 127mm (2.6 x 5")
Product Weight	0.52kg (1.15lbs.)	0.5kg (1.1lbs.)	0.34kg (0.75lbs.)	0.75kg (1.65lbs.)



TURING | Smart Series



SKU	TP-FSBJB	TP-EFDJB	TP-MBJB	TP-MDJB
Material	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy
Color	White	White	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Product Dimensions	104mm x 54.5mm (4.11 x 2.15")	108.6 x 36mm (4.28 x 1.42")	104 x 104 x 55.5mm (4.09 x 4.09 x 2.19")	144.8 x 40mm (5.70 x 1.57")
Product Weight	0.36kg (0.79lbs.)	0.2kg (0.44lbs.)	0.42kg (0.93lbs.)	0.3kg (0.66lbs.)



SKU	TP-UWPJ	TP-AIPMB	TP-IPME2	TP-IPME5
Material	Plastic	Aluminum alloy	Aluminum alloy	Aluminum alloy
Color	White	White	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Product Dimensions	37 x 46mm (1.46 x 1.81")	110 x 223.5mm (4.33 x 8.80")	32 x 220mm (1.26 x 8.66")	32 x 520mm (1.26 x 20.47")
Product Weight	0.023kg (0.05lbs.)	0.25kg (0.55lbs.)	0.16kg (0.35lbs.)	0.35kg (0.77lbs.)



TURING | Smart Series



SKU	TP-EFDTM	TP-MDEP
Material	Plastic	Aluminum alloy
Color	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH
Product Dimensions	108.0 x 24.2mm (4.25 x 0.95")	145mm x 13mm (5.7 x 0.5")
Product Weight	0.04kg (0.1lbs.)	0.13kg (0.29lbs.)

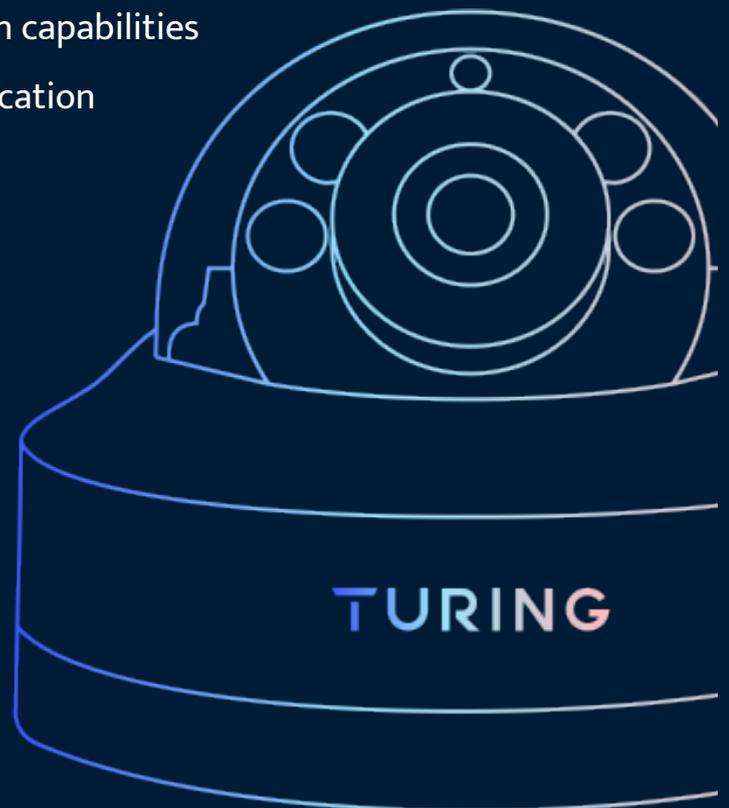


ADVANTAGE

IP Camera and NVR SERIES

Turing Advantage Series are a valuable security asset. These cameras are affordable, durable, and have enhanced features that include:

- ✓ Motion detection and 2MP/4MP/8MP resolution
- ✓ NDAA Compliant
- ✓ WDR enhances image quality
- ✓ Smart IR improves image resolution
- ✓ IP67 protects hardware against environmental elements
- ✓ NVR's have 4K IP video input and local output capabilities
- ✓ NVR intelligent analysis can identify suspicious activity
- ✓ 4CH/8CH/16CH with playback and smart search capabilities
- ✓ View pages 27 and 28 for SKU Number Identification



TURING | Advantage Series



SKU	TI-NMD04AV3	TI-NFD0428 TI-NFD044	TI-NFD08A28	TI-NCD04A28 TI-NCD04A4
RESOLUTION	4MP	4MP	8MP	4MP
SENSOR SIZE	1/2.8"	1/2.8"	1/2.8"	1/2.8"
LENS	2.7~13.5 mm, Motorized focus, Iris: F1.6, Angle of view (H): 104.2°~ 30.1°	TI-NFD0428: 2.8 mm, TI-NFD044: 4 mm, Fixed focus, Iris: F2.0, Angle of view (H): 97.4°	2.8 mm, Fixed focus, Iris: F2.0, Angle of view (H): 97.4°	TI-NCD04A28: 2.8 mm, TI-NCD04A4: 4 mm, Fixed focus, Iris: F2.0, Angle of view (H): 97.4°
MIN ILLUMINATION	Color: 0.05Lux F/1.2 AGC ON B/W: 0Lux with IR	Color: 0.05Lux F/1.2 AGC ON B/W: 0Lux with IR LED ON	Color: 0.01Lux F/1.2 AGC ON B/W: 0Lux with IR LED ON	Color: 0.05Lux F/1.2 AGC ON B/W: 0Lux with IR LED ON
IMAGE ENHANCEMENT	HLC, BLC, Anti-shake, WDR	HLC, BLC, Anti-shake, WDR	HLC, BLC, Anti-shake, WDR	HLC, BLC, Anti-shake, WDR
FRAME RATE @ RESOLUTION	4MP (2592x1520) @ 30fps	4MP (2592x1520) @ 30fps	8MP (3840x2160) @ 30fps	4MP (2592x1520) @ 30fps
SMART IR	✓	✓	✓	✓
MIRROR	✓	✓	✓	✓
MOTION DETECTION	✓	✓	✓	✓
PRIVACY MASKING	✓	✓	✓	✓
MICROPHONE	N/A	N/A	N/A	✓
AUDIO	1/1	N/A	1/1	1/1
ALARM	1/1	N/A	1/1	1/1
SD CARD SLOT SIZE	256G	256G	256G	256G
INTELLIGENCE FUNCTION	Support Face, Human, Vehicle Detection and Capture	Support Face, Human, Vehicle Detection and Capture	Support Face, Human, Vehicle Detection and Capture	Support Face, Human, Vehicle Detection and Capture
NETWORK INTERFACE	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)
INTEROPERABILITY	ONVIF, SDK, CGI	ONVIF, SDK, CGI	ONVIF, SDK, CGI	ONVIF, SDK, CGI
RESET BUTTON	✓	✓	✓	✓
POWER SUPPLY	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)
INGRESS PROTECTION	IP66, IK10	IP67, IK10	IP67, IK10	IP66
WORKING ENVIRONMENT	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)
WEIGHT	0.73kg (1.61lbs.)	0.42kg (0.93lbs.)	0.47kg (1.04lbs.)	0.38kg (0.84lbs.)
POWER CONSUMPTION	Max 8 W	Max 5.5 W	Max 5.5 W	Max 6 W
CERTIFICATIONS	CE/FCC	CE/FCC	CE/FCC	CE/FCC
DIMENSIONS (H x W x D)	140 x 110 mm (5.51 x 4.33")	110 x 85.4 mm (4.33 x 3.36")	110 x 85.4 mm (4.33 x 3.36")	99.5 x 99.5 x 63 mm (3.92 x 3.92 x 2.48")
ACCESSORIES	TI-MDPC, TI-ADPM, TI-ADWM, TI-ADCM	TI-FDPC, TI-ADPM, TI-ADWM, TI-ADCM, TI-FDJB	TI-FDPC, TI-ADPM, TI-ADWM, TI-ADCM, TI-FDJB	TI-CDPC, TI-ADPM, TI- ADWM, TI-ADCM, TI-CDJB
ACTIVE DETERRENCE	N/A	N/A	N/A	N/A



TURING | Advantage Series



SKU	TI-NFB0428 TI-NFB044	TI-NMB04AV3	TI-NVB02VSL	TI-NED0428 TI-NED044
RESOLUTION	4MP	4MP	2MP	4MP
SENSOR SIZE	1/2.8"	1/2.8"	1/2.8"	1/2.8"
LENS	TI-NFB0428: 2.8 mm, TI-NFB044: 4 mm, Fixed focus, Iris: F2.0, Angle of view (H): 97.4°	2.7~13.5 mm, Motorized focus, Iris: F1.6, Angle of view (H): 104.2°~30.1°	2.7~13.55 mm, Motorized focus, Iris: F1.6, Angle of view (H): 95°~28.4°	TI-NED0428: 2.8 mm, TI-NED044: 4 mm, Fixed focus, Iris: F2.0, Angle of view (H): 97.4°
MIN ILLUMINATION	Color: 0.05Lux F/1.2 AGC ON B/W: 0Lux with IR	Color: 0.05Lux F/1.2 AGC ON B/W: 0Lux with IR LED ON	Color: 0.003Lux F/1.2 AGC ON B/W: 0Lux with IR LED ON	Color: 0.05Lux F/1.2 AGC ON B/W: 0Lux with IR LED ON
IMAGE ENHANCEMENT	HLC, BLC, Anti-shake, WDR	HLC, BLC, Anti-shake, WDR	HLC, BLC, Defog, WDR	HLC, BLC, Anti-shake, WDR
FRAME RATE @ RESOLUTION	4MP (2592x1520) @ 30fps	4MP (2592x1520) @ 30fps	2MP (1920x1080) @ 30fps	4MP (2592x1520) @ 30fps
AISLE MODE	N/A	N/A	✓	N/A
SMART IR	✓	✓	✓	✓
MIRROR	✓	✓	✓	✓
MOTION DETECTION	✓	✓	✓	✓
PRIVACY MASKING	✓	✓	✓	✓
MICROPHONE	N/A	N/A	✓	N/A
AUDIO	N/A	N/A	✓	N/A
ALARM	N/A	N/A	N/A	N/A
SD CARD SLOT SIZE	256G	256G	256G	256G
INTELLIGENCE FUNCTION	Support Face, Human, Vehicle Detection and Capture	Support Face, Human, Vehicle Detection and Capture	Support Face, Human, Vehicle Detection and Capture	Support Face, Human, Vehicle Detection and Capture
NETWORK INTERFACE	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)
INTEROPERABILITY	ONVIF, SDK, CGI	ONVIF, SDK, CGI	ONVIF, SDK, CGI	ONVIF, SDK, CGI
RESET BUTTON	✓	✓	✓	✓
POWER SUPPLY	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)	12V DC, PoE (802.3af)
INGRESS PROTECTION	IP67	IP67	IP66	IP66
WORKING ENVIRONMENT	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)
WEIGHT	0.55kg (1.21lbs.)	0.81kg (1.79lbs.)	1.24kg (2.37lbs.)	0.5kg (1.1lbs.)
POWER CONSUMPTION	Max 8.5 W	Max 8.5 W	Max 8.5 W	Max 6 W
CERTIFICATIONS	CE/FCC	CE/FCC	CE/FCC	CE/FCC
DIMENSIONS (H x W x D)	187.6 x 64 x 64 mm (7.39 x 2.52 x 2.52")	232 x 80 x 80 mm (9.13 x 3.15 x 3.15")	303 x 100 x 107 mm (11.9 x 3.94 x 4.21")	118 x 103 mm (4.65 x 4.06")
ACCESSORIES	TI-FMBJB, TI-ABPM	TI-FMBJB, TI-ABPM	TI-VBSLJB, TI-ABPM	TI-EDPC, TI-EDJB, TI-ADPM, TI-ADWM, TI-ADCM
ACTIVE DETERRENCE	N/A	N/A	Strobe Light and Audio	N/A



TURING | Advantage Series



SKU	TN-NRP042T	TN-NRP082T TN-NRP084T	TN-NRP164T
MAX RECORDING RESOLUTION	8MP	8MP	8MP
IP CAMERA INPUT	4-ch	8-ch	16-ch
IP CAMERA POE PORTS	4	8	16
INPUT BANDWIDTH	28 Mbps	56 Mbps	112 Mbps
HDMI OUTPUT	Up to 3840x2160	Up to 3840x2160	Up to 3840x2160
VGA OUTPUT	Up to 1920x1080	Up to 1920x1080	Up to 1920x1080
ALARM INPUT	4-ch	8-ch	8-ch
ALARM OUTPUT	1-ch	1-ch	2-ch
OUTGOING BANDWIDTH	28 Mbps	56 Mbps	112 Mbps
DECODING CAPACITY	Refer to Datasheet	Refer to Datasheet	Refer to Datasheet
HDD SLOTS	1 SATA Ports, up to 8TB for each HDD	2 SATA Ports, up to 8TB for each HDD	2 SATA Ports, up to 8TB for each HDD
BUNDLED HDD	2 TB	TN-NRP082T: 2 TB TN-NRP084T: 4 TB	4 TB
NETWORK INTERFACE	1 RJ45 (10/100 Mbps)	1 RJ45 (10/100/1000 Mbps)	1 RJ45 (10/100/1000 Mbps)
USB INTERFACE	3 ports (USB 2.0x3)	3 ports (USB 2.0x3)	3 ports (USB 2.0x3)
ALARM I/O	1/1	1/1	1/1
DUAL STREAM	✓	✓	✓
CLOUD STORAGE	✓	✓	✓
SMART SEARCH	✓	✓	✓
PLAYBACK	✓	✓	✓
NETWORK INTERFACE	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)	1 Ethernet (10/100 Base-T)
POWER SUPPLY	110 VAC	AC100 ~ 240V	AC100 ~ 240V
WORKING ENVIRONMENT	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
WEIGHT	0.9kg (1.98lbs.)	2.1kg (4.63lbs.)	2.75kg (6.05lbs.)
POWER CONSUMPTION	<5W (without HDD)	<5W (without HDD)	<15W (without HDD)
CERTIFICATIONS	CE/FCC	CE/FCC	CE/FCC
DIMENSIONS (H x W x D)	255 x 237 x 47.5 mm (10.04 x 9.33 x 1.87")	372 x 310.5 x 46.5 mm (16.65 x 12.2 x 2.2")	372 x 310.5 x 46.5 mm (16.65 x 12.2 x 2.2")



TURING | Advantage Series



SKU	TI-FDPC	TI-EDPC	TI-CDPC	TI-MDPC
Material	Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy
Color	White	White	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Load Bearing	3kg (6.61lbs.)	3kg (6.61lbs.)	3kg (6.61lbs.)	3kg (6.61lbs.)
Product Dimensions	109.8 x 65mm (4.32 x 2.56")	118 x 68mm (4.65 x 2.68")	99.5 x 99.5 x 75.8mm (3.92 x 3.92 x 2.98")	145 x 73mm (5.71 x 2.87")
Product Weight	0.13kg (0.29lbs.)	0.17kg (0.42lbs.)	0.19kg (0.42lbs.)	0.21kg (0.46lbs.)



SKU	TI-ADPM	TI-EDJB	TI-CDJB	TI-FDJB
Material	Aluminum alloy	Aluminum alloy + Plastic	Aluminum alloy + Plastic	Aluminum alloy + Plastic
Color	White	White	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Load Bearing	3kg (6.61lbs.)	3kg (6.61lbs.)	3kg (6.61lbs.)	3kg (6.61lbs.)
Product Dimensions	140 x 264mm (5.51 x 10.4")	107 x 46mm (4.21 x 1.81")	86 x 129.5 x 50.8mm (3.39 x 5.1 x 2")	110 x 37.3mm (4.33 x 1.47")
Product Weight	0.56kg (1.23lbs.)	0.34kg (0.75lbs.)	0.24kg (0.53lbs.)	0.21kg (0.46lbs.)



TURING | Advantage Series



SKU	TI-FMBJB	TI-VBSLJB	TI-ADWM	TI-ABPM	TI-ADCM
Material	Aluminum alloy + Plastic	Aluminum alloy	Aluminum alloy	Cold Rolled Sheet, Stainless steel	Aluminum alloy
Color	White	White	White	White	White
Operating Humidity	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH	0% - 90% RH
Load Bearing	3kg (6.61lbs.)	4kg (8.82lbs.)	3kg (6.61lbs.)	8kg (17.64lbs.)	4kg (8.82lbs.)
Product Dimensions	110 x 48mm (4.33 x 1.89")	121 x 46mm (4.76 x 1.81")	141 x 116.2 x 116.2mm (5.55 x 4.57 x 4.57")	121 x 120 x 52mm (4.76 x 4.72 x 2.05")	176.5 x 103.3 x 170 mm (6.95 x 4.07 x 6.69")
Product Weight	0.3kg (0.66lbs.)	0.42kg (0.93lbs.)	0.25kg (0.55lbs.)	0.5kg (1.1lbs.)	0.5kg (1.1lbs.)



TURING VISION

AI-Powered Video Analytics

Turing Vision is the award-winning safety and security video surveillance platform. Turing Vision's wide range of advanced AI algorithms will transform your existing camera's safety and security capabilities.

- ✓ Award-winning AI Algorithms
- ✓ Monitor and search incidents fast, from anywhere
- ✓ Assess and respond to alerts in seconds
- ✓ Analyze patterns to increase operation efficiency while reducing security costs



Motion Detection



Person Detection



License Plate Recognition



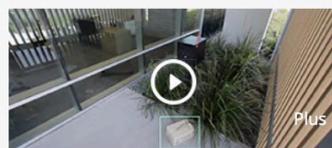
Camera Malfunction



Loitering



Parking Violation



Unattended Objects



Absentee



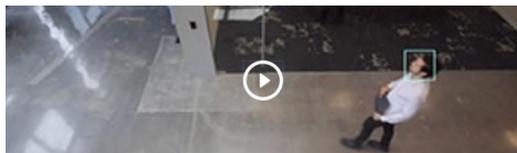
Slip and Fall



Forklift Monitoring



ALGORITHM PACKAGE DESCRIPTION	CORE	PLUS	PREMIUM	ULTIMATE
	SECURITY	SECURITY+	SAFETY	RETAIL
	People Intrusion	License Plate Recognition	Slip and Fall	Queue Monitoring
	Vehicle Intrusion	People Search and Analytics	Forklift Monitoring	---
	Vehicle Search and Analytics (Color, Type, and Make)	---	Fire Detection	---



Person Intrusion



Vehicle Intrusion



License Plate Recognition



Slip and Fall



Forklift Monitoring



Fire Detection



Queue Monitoring





SKU	TV-SERVERB	TV-SERVERM	TV-SERVER
HARDWARE NAME	Bridge	Mini-Server	Server
CPU	Intel® Broadwell Processor i3-5005U Dual Core 2.0GHz	Intel Core i7-9750H (six-core 2.6 GHz, up to 4.5 GHz), Intel, NVIDIA 2 x DDR4-2666/2400 SODIMM Slots (up to 32GB)	2 x Socket P (LGA 3647) 1st and 2nd Gen Xeon® Scalable Processor Family (150W)
GPU	Intel® HD Graphics 5500	NVIDIA GeForce RTX 2080 8GB GDDR6 256-bit, 2 x HDMI 2.0, DisplayPort 1.4 USB Type-C	Aspeed AST2500 with 64MB VRAM
DIMENSIONS	124 x 113 x 41mm (4.88 x 4.45 x 1.61")	210 x 203 x 62.2mm (8.27 x 7.99 x 2.45")	800 x 440 x 88mm (2U) (31.50 x 17.22 x 3.46")
NETWORK	WIFI IEEE 802.11b/g/n/ac, 2.4G+5.8G LAN 1000Mbps	WLAN (Wi-Fi 6) and a dual-LAN	1 x Dual Port Intel I350-AM2 Gigabit LAN controller + 1 x Mgmt. LAN
INTERNAL PORTS	M.2 1*M.2 2280SSD (128G-1TB) SATA 1*SATA HDD (2.5in, 500GB-2TB)	1 x 2.5-inch SATA 6.0 Gbps HDD/SSD bay 1 x M.2 PCIe4 / SATA SSD slot (2242,2280), Intel Optane memory slot (2242, 2280) 3-in-1 (SD/SDHC/SDXC)	Intel® C621 8 x SATA3 6Gb/s ports + 1 x M.2 connector (SATA 6Gb/s & PCIe® Gen3 x4 link /2280/2260) 1 * PCI-E x8 (internal HBA/RAID card) (from CPU2, Bandwidth is shared between PCI-E x8 and 2 x NVMe drives)
ALGORITHM PACKAGE COMPATIBILITY	CORE	CORE, PLUS, PREMIUM, ULTIMATE	CORE, PLUS, PREMIUM, ULTIMATE

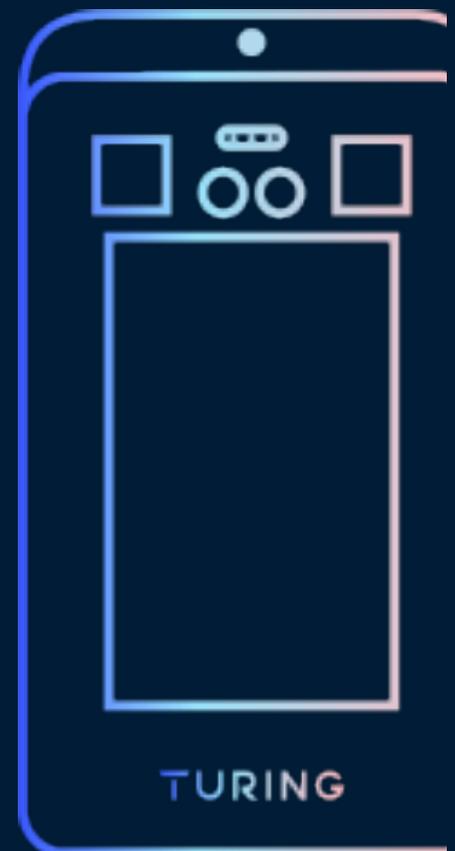


TURING SHIELD

Thermal Scanners and Stands

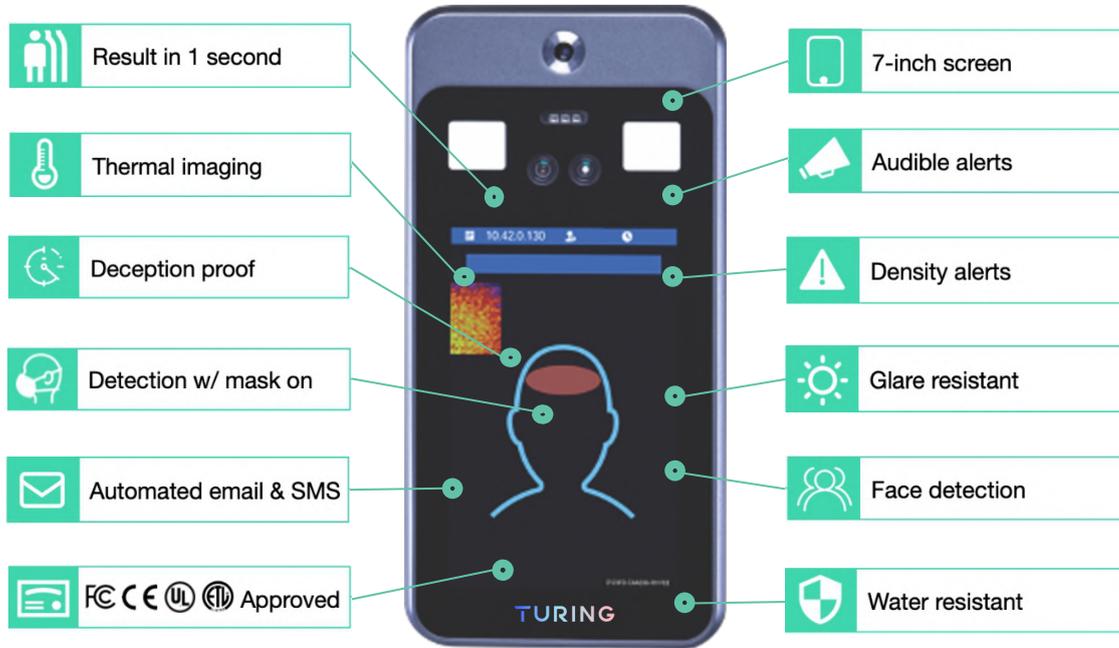
Turing Shield is the #1 workplace solution with body temperature scanner and platform. Safeguard your employees and customers, mitigate risk by aligning with CDC guidelines and reopen with confidence.

- ✓ Fast & accurate within $\pm 0.3^{\circ}\text{C}$ ($\pm 0.5^{\circ}\text{F}$) temperature screening
- ✓ Supports CDC Covid-19 response protocol
- ✓ Enterprise-grade customization: access control, HID access & badge printing
- ✓ AI-Powered Turing Biometrics
- ✓ Centralized monitoring and reporting



Hardware Overview

Features



Specifications



Camera	Dual Lens	Power Supply	12V DC 2A
Lens Aperture	1/2.8	Operating Power	8W
Minimum Lighting	0.01Lux@(F1.2,AGC ON)	Range of Detection	50-104°F (10-40°C)
Display	7-inch HD LCD Screen	Operating Distance	18 inches (0.5m)
Image Enhancing	Adaptive Light Compensation, DNR	Detection Time	less than 100ms
Video Encoding	H.264	Accuracy	±0.3°C (±0.5°F)
Data Rate	1-4 Mbps	Alert Modes	Voice Alert, Text Messages
Resolution	1920 x 1080	Certifications	CE, FCC, IC
Frame Rate	25 Frames per Second	SDK Support	Linux, Windows
Video Setting	Exposure, Gain, Contrast, Saturation	Support Protocols	HTTPS



TURING | Turing Shield



SKU	TS-FLEX	TS-FLEX-ENT
HARDWARE	Turing Shield thermal scanner + AI box Signature stationary stand Badge printing bundle (printer + labels)	Turing Shield thermal scanner + AI box Enterprise stationary stand Badge printing bundle (printer + labels)
SOFTWARE	Turing Cloud Access Turing Biometrics	Turing Cloud Access Turing Biometrics
SERVICE	Firmware Customization Corporate logos on the stand 1-year warranty	Firmware Customization Corporate logos on the stand 1-year warranty
DIMENSIONS	12"x12"x60"	12"x12"x60"
WEIGHT	70LBS	35LBS

*Requires MOQ for customization



TURING | Turing Shield



SKU	TS-BASIC	TS-BASIC-SLD
HARDWARE	Turing Shield thermal scanner + AI box Adjustable stand	Turing Shield thermal scanner + AI box Solid stand
SOFTWARE	Turing Cloud Access Turing Biometrics	Turing Cloud Access Turing Biometrics
SERVICE	1-year warranty	1-year warranty
DIMENSIONS	12"x12"x60"	12"x12"x60"
WEIGHT	35LBS	35LBS



Software Overview

High Temperature Alert Tracking

Created (UTC-7:00) ↓	Alert ID	Status	State	Site	Device Location	Alert type	Device name
2020/03/15, 08:20:34	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:20:30	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:20:23	ID Number	IN PROGRESS	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:20:12	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:03:43	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:02:01	ID Number	AUTO RESOLVED	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 08:00:34	ID Number	AUTO RESOLVED	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 07:56:12	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 07:23:21	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 07:00:01	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE
2020/03/15, 06:32:07	ID Number	PENDING	California	Site123	Device Location	Debris monitoring	DETAIL DELETE

Contact Tracing (Powered by Turing Biometrics)

Alert ID: 12345 Pending

Name	Kelly
Serial NO.	2222
Site	San Mateo Downtown

Screening Time: 2020/09/04,19:36:54 ✓

Temperature: 99.12°F

Device Name: TS10186

Mask: Yes

Questionnaire Result: [Detail](#)

Body temperature records in past 14 days

Comments*

Add comments here

Mark as In Process

Temperature Screening Records

Contact Tracing Records

09/04, 19:36:54,TS10179

09/04, 19:36:54,TS10179

09/04, 19:36:54,TS10179

09/04, 19:36:54,TS10179

Review historical records from thermal scanner temperature readings and security camera footages

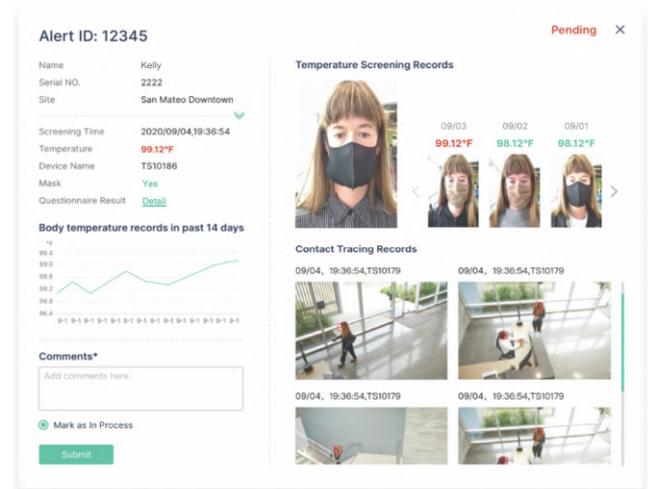
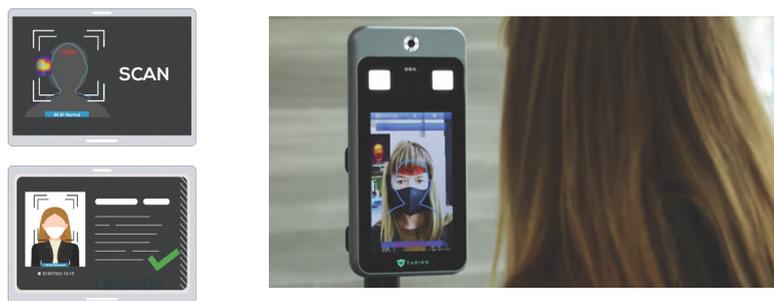
Turing Biometrics

Features

Turing Biometrics model is based on state-of-the-art neural network machine learning algorithms. The models were trained over several millions of face images from more than 100,000+ individuals. Our algorithm can accurately locate and identify the identities in the given images.

Turing Biometrics’ models can be activated to be used in the following ways:

- Face Mask Detection
- Detection and Recognition
- Contact Tracing



Specifications

- The minimum pixel dimension is 40 x 40 from a 1920 x 1080 frame size
- The minimum image size uploaded for detection and identification is 80x80 pixels
- Supports JPEG and PNG image formats
- The maximum number of faces that can be added for identification is 20 million

Model Performance

- The following model performance report is based on testing using random face images
- Test Set 1 (Frontal Face Images) - 1,000 frontal face images that includes background noise
- Test Set 2 (Unconstrained Face Images) - 1,000 online face images that have varied face pose angles

1:N Identification Results – True-Positive Identification Rate (TPIR)		
TPIR Identifications	Test Set 1 (Frontal Face Image)	Test Set 2 (Unconstrained Face Images)
Top 1	89.3%	87.9%
Top 5	91.5%	88.5%



TURING ROBOT (Coming Soon)

Autonomous Robot Patrol

Turing Robotics delivers the world's most affordable and advanced indoor patrolling robot available. Equipped with the power of award-winning AI and environmental sensors, Turing's 24/7 autonomous patrolling robots will keep your facility safe.

- ✓ Easy Installation, simple setup & controls
- ✓ Customizable patrol routes
- ✓ Auto self charge
- ✓ Real-time live streaming 360° video and recording
- ✓ Stores multiple maps
- ✓ Detects surroundings and maneuvers obstacles
- ✓ Control remotely via mobile app
- ✓ Unlimited cloud-based storage
- ✓ Centralized monitoring of all robots



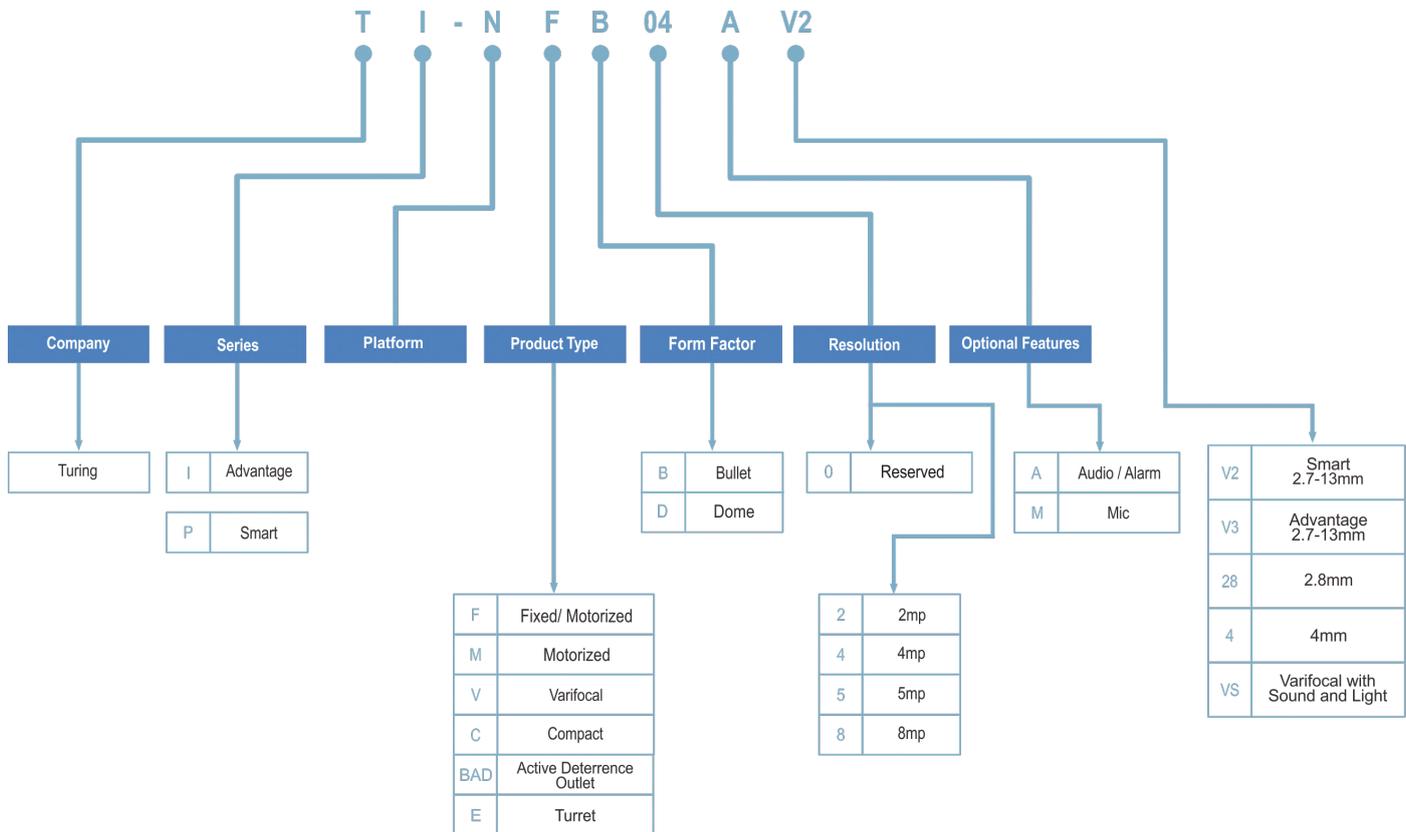
TURING | Turing Robot



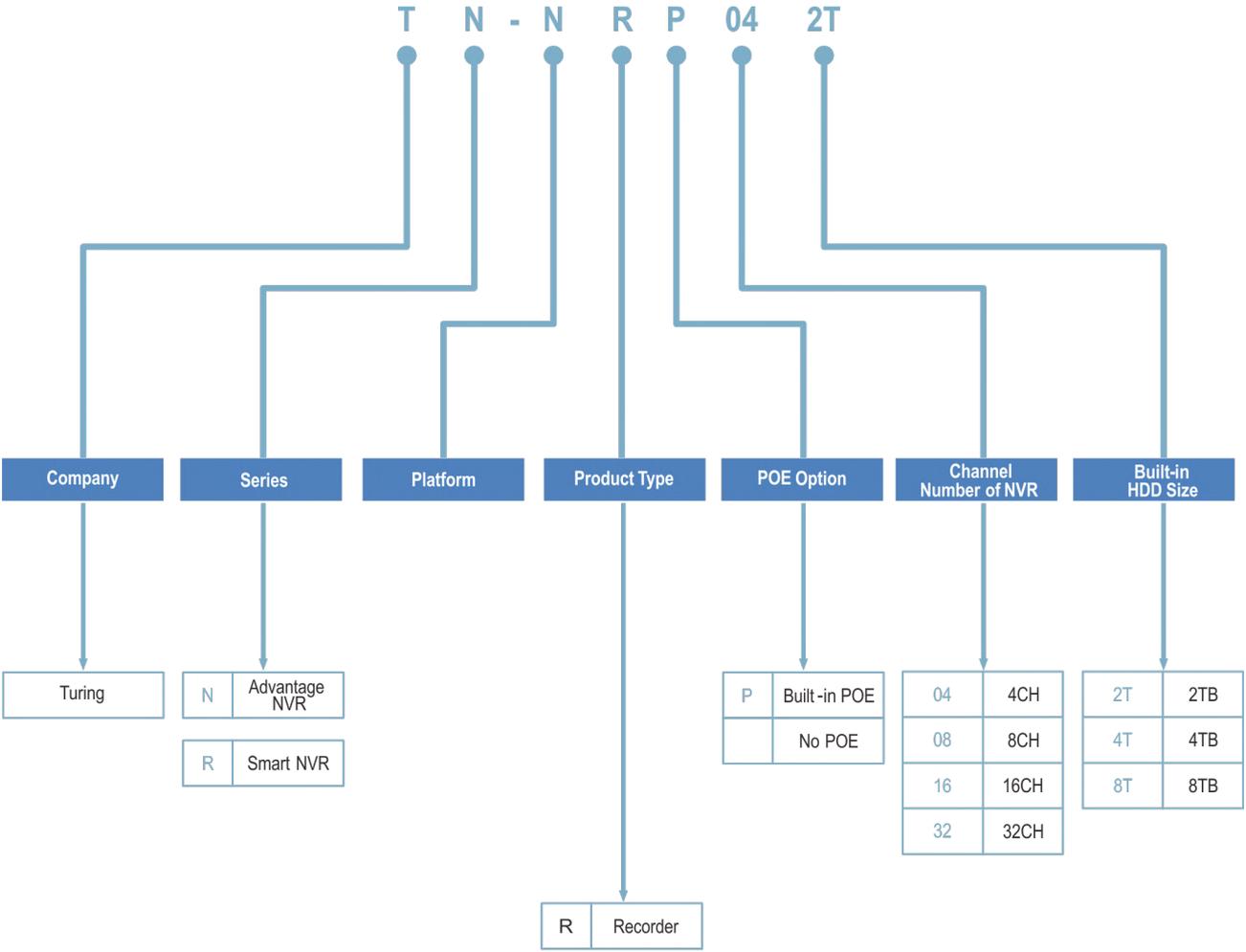
SKU	COMING SOON
HARDWARE	Surveillance Camera, QR Code/Barcode Scanner, 10.1" Tablet , 3D and 2D Sensors, Configurable Cabin, Laser Scanner, 3 Ultrasonic Sensors, Bumper, Emergency Stop, 4 Automatic Doors
SOFTWARE	Cloud-based Robot Management Center
MAX PAYLOAD	66.1 LBS
MAX SPEED	1.2m/s
OPERATION TIME	Up to 7*24h
CHARGING	Auto-charge, 4 hours charging
CHARGING POWER SUPPLY	220V*5A
CHARGING METHOD	Auto-charging with charging dock
PROTECTION	IP43
LIDAR	Laser scanner
POWER / BATTERY CAPACITY	48V / 12.8Ah
CURB-CLIMBING / SLOPE	2cm step curb / 8° slope
WARNING DEVICE	Speaker and LED
COMMUNICATION	4G Network
CAMERA	RGB camera for monitoring the cabin doors
SENSOR	Laser scanner, 2D and 3D cameras, ultrasonic sensors, IMU, etc
SERVICE	1-year warranty
DIMENSIONS	21"x19.1"x37.8"
WEIGHT	132.3 LBS



Camera SKU Number Identification



NVR SKU Number Identification



TURING



CONTACT US

sales@turingvideo.com

866.339.4268

FOREFRONT OF AI SECURITY

TUR-PRD-CATALOG-1-67,
Printed 08/21

