

Perceptor IoT for TSC Printronix

A Global Print Revolution

TSC Printronix Perceptor IoT brings together a renowned and highly regarded thermal printer with Perceptor's innovative label inspection and verification solution, Perceptor IoT.

Perceptor IoT provides all the label inspection and verification features needed for production in both compliant and non-compliant industries accessed through one intuitive application. Eliminating errors, delays and manual processes, Perceptor IoT globally connects multiple printers and manufacturing sites to one secure segregated database.

With data security, integrity and availability at its core, Perceptor IoT auto-configures through the user licence and requires no specialist technical knowledge to integrate with your TSC Printronix printer. Taking control of your print process, Perceptor IoT inspects every label in real-time to ensure print quality is maintained and duplicates are eliminated.

Perceptor IoT - at a glance

- ✓ Latest Microsoft .NET 8 technology
- ✓ Security and compliance using OAuth 2.0, self-signed certificates, secure customer key vaults
- ✓ Azure Active Directory single sign on
- ✓ Subscription and Lifetime OnPremise solution
- ✓ Web based management console
- ✓ Attended and Unattended print inspection modes
- ✓ Code grading, OCR/OCV, pattern match, print blemish and GS1/MILSTD 130 validation
- ✓ SOC2 compliance
- ✓ Real-time Sentinel threat monitoring
- ✓ Scalable global solution



Perceptor IoT

The secure, scalable, globally connected print inspection and verification solution.

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TSC Printronix Perceptor IoT Product Specifications

Standard Features

- ✓ Print Methods: Thermal transfer and direct thermal printing
- ✓ Print Modes: Tear-off, continuous and cutter
- ✓ Media Types: Continuous, die-cut, black-mark
- ✓ Inspection types: ISO 15415/15416 code grading, OCR/OCV, pattern match, print blemish
- ✓ Inspection Fonts: Latin based Arial, Cambria, Consolas, OCR-B, others on demand
- ✓ Barcodes:
 - 1D: Code 128; EAN-8; EAN-13; UPC; 2of5 Interleaved; Code 39; Code 93
 - 2D: DataMatrix; GS1 DataMatrix; QR Code; PDF417;
- ✓ Smallest X-dimension:
 - 4" - 10mils/0.254mm
 - 6" - 15 mils/0.381mm
- ✓ Smallest character height: 5pt
- ✓ Construction: Printer - Metal frame
- ✓ ODV-2D – Metal casing
- ✓ IoT Device – Metal casing
- ✓ Camera interface housing – Metal casing

Printers

Printers	T6000e 4" and T8000 4" and 6"
Printer resolutions	203/300/609 dpi (T6000e only)
Maximum print width	4.09"/104mm and 6"/152mm
Smallest label print height	0.23"/6mm
Maximum print and scan speed	8 ips/203mm per second
Maximum Continuous Print Length	24" / 609mm
Failure modes	Backfeed and overstrike; backfeed retry and overstrike
Further details	odv-2d family brochure en web 20230425 0.pdf (tscprinters.com)

Perceptor IoT Device

Dimensions	241mm x 203mm x 110mm
Display	7" Touch Display Capacitive IPS 178-degree visual angle 1024 x 600 high resolution Response Time: ≤16ms Surface Hardness: 6H
Operating System	Windows 10 IoT
Memory	8GB RAM and 64GB eMMC
Storage	64GB
Connections	USB 1 x 3.2 Gen2X1 USB 2 x 3.2 Gen1X1 USB-C x 1 HDMI 2.0b Gigabit Ethernet
Input power	5V DC

ODV-2D Camera

Scanning width	4.5" / 114mm and 6.5" / 165mm
Type	Mono
Light source	Red 630nm
Focal length	2.4"/60mm
Maximum scan rate	8"/204mm per second
Connection Type	Ethernet

****Perceptor recommends always qualifying any application with thorough testing.****



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