



automation
components

STROJOVÉ VIDENIE COGNEX A SVETLÁ SMARTVIEW

3D kamerové zariadenia

Nýdina



**Od roku 1996 pomáhame
firmám inovať výrobu
pomocou moderných
a inteligentných technológií.**

Takých, ktoré umožňujú vyrábať
technologicky najnáročnejšie
produkty. Popri tom zefektívňujú
výrobné procesy, šetria ľuďom čas
a uľahčujú im život.

**Naším cieľom sú kvalitné výrobky,
spokojní ľudia a dobré prostredie
v priemyselnej výrobe.**

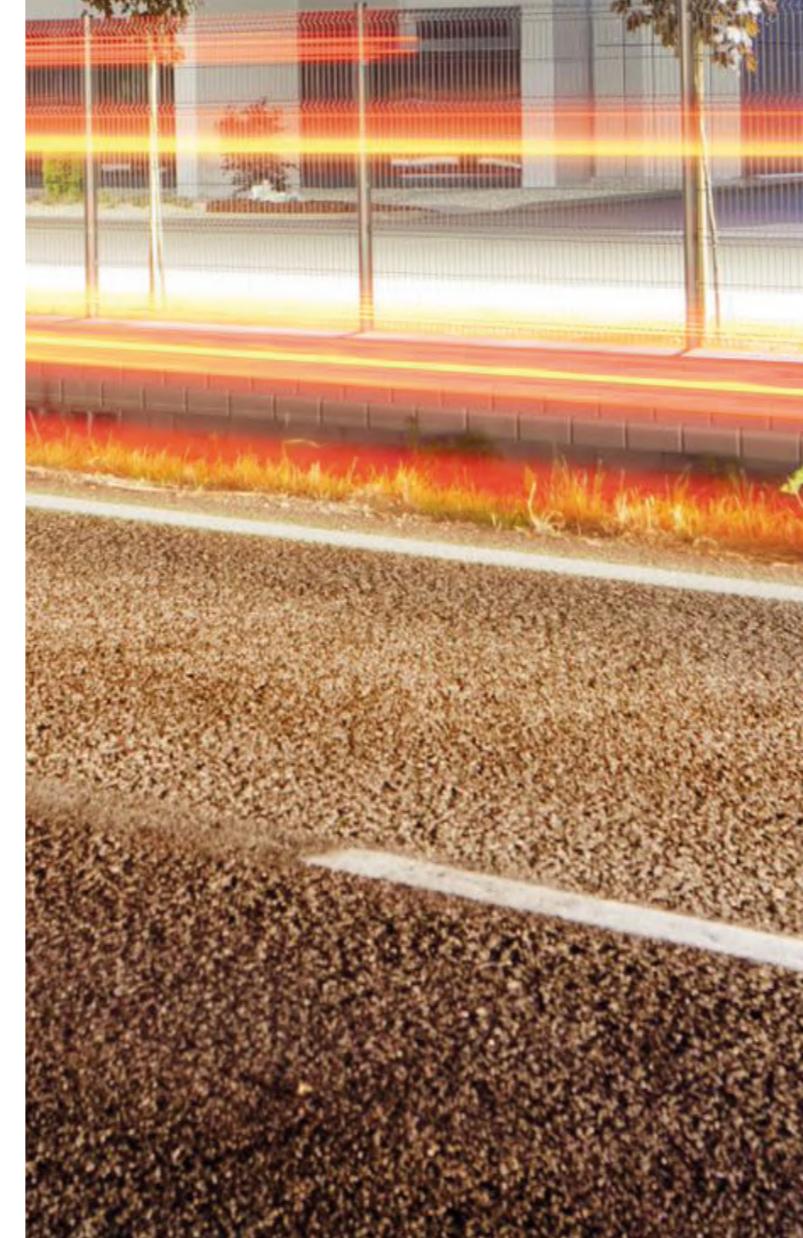
Prostriedkom sú naša odbornosť
a skúsenosti, férkové vzťahy
a starostlivo vybrané
spoľahlivé technológie.



Chceme ukázať, že je možné
úspešne podnikať aj férovo,
ľudsky a s pevnými hodnotami.
Že spoločnosť z Oravy môže byť
klúčovým partnerom pre veľké
firmy z celého sveta.

**Vybavíme vašu výrobu
osvedčenými komponentmi od
našich dlhoročných partnerov.**

Poradíme vám s ich výberom
a aj s tým, ako vybrané
komponenty do vašej linky
čo najlepšie a cenovo
najvhodnejšie implementovať
a využiť na maximum. Vieme sa
postarať aj o celú vašu výrobu
od A po Z.



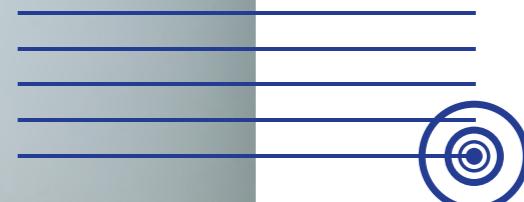
**Sme oficiálnym slovenským
partnerom spoločnosti
COGNEX v oblasti strojového
videnia. Dodávame kamery,
ktoré analyzujú obraz v 2D a
3D prostredí, taktiež kamerové
systémy pracujúce na základe
umelej inteligencie, ktoré sa
dokážu autonómne učiť, a tým
výrazným spôsobom zvýšiť svoju
spoľahlivosť. V našom portfóliu
máme čítačky kódov, no tiež
zariadenia, ktoré vedia merať
samotnú kvalitu kódov.**

Kamerové systémy sa
využívajú takmer vo všetkých
priemyselných podnikoch pri
rozličných druhoch aplikácií.
Naše kamerové systémy sa
využívajú v automobilovom,
potravinárskom, elektrotechnic-
kom či farmaceutickom odvetví.

Ako spoľahlivý partner sa
postaráme o návrh riešenia
týkajúceho sa vašich aplikácií.
S našimi technickými odborníkmi
si s aplikáciou ľahko poradíme,
popričapse navrhнемe kompletné
riešenie na mieru.



William Lucký
obchodno-technický zástupca
pre strojové videnie



STROJOVÉ VIDENIE COGNEX A SVETLÁ SMARTVIEW



Pomôžeme vám zaviesť do výroby nástroje, ktoré zabezpečia kvalitu vašej výroby pomocou detailného merania a detektie dielov.

Obraz analyzujú v 2D a 3D prostredí. Na základe umelej inteligencie sa dokážu niektoré zariadenia autonómne učiť, a tým výrazným spôsobom zvýšiť svoju spoľahlivosť.

Strojové videnie je postavené na 3 pilieroch:

- **Kamerové systémy** – znižujú chybovosť a šetria peniaze
- **Svetlá** – výrazným spôsobom zvyšujú spoľahlivosť strojového videnia
- **Čítačky kódov** – umožňujú sledovať materiál aj výrobky

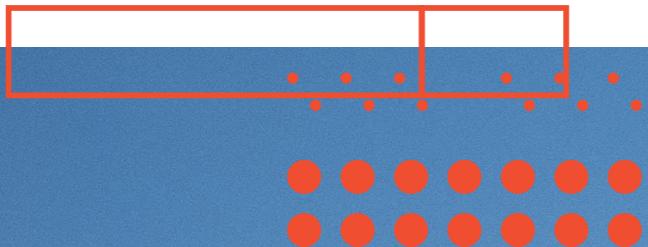
Dodávame kamery a čítačky kódov COGNEX a svetlá SmartView. Osvedčujú sa nám, pretože...

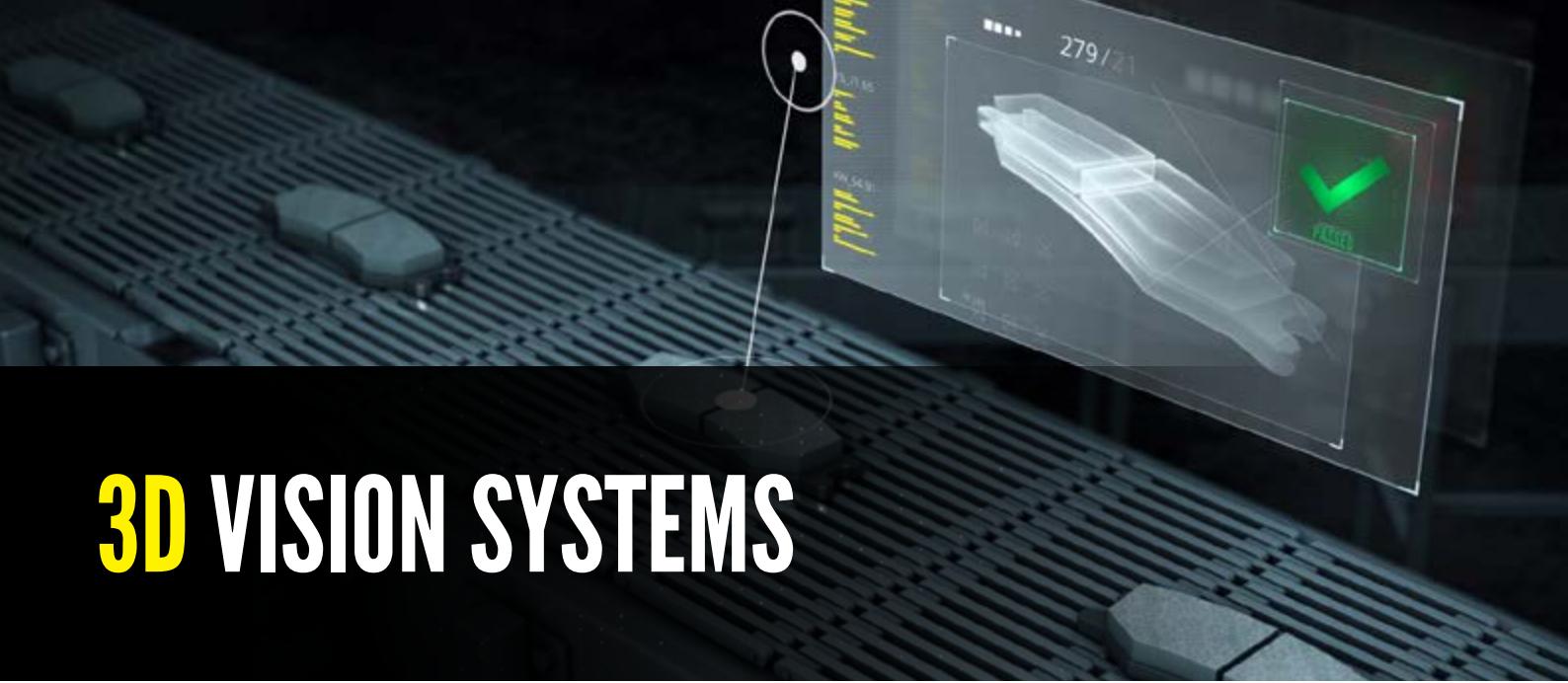
- Vďaka flexibilite technológií dokážeme nájsť riešenie pre každú aplikáciu
- Kamerové systémy COGNEX majú skvelý výkon aj v náročných podmienkach
- Pracujeme s prepojeným systémom poctivého hardvéru a intelligentného softvéru
- Systémy na strojové videnie ľudia používajú jednoducho a intuitívne
- Kamery sú odolné voči externému prostrediu
- Pracujú autonómne
- Spoločnosť COGNEX sa dlhodobo radí medzi lídrov na trhu v oblasti priemyselného videnia

Zistite viac na mts.sk/strojove-videnie

OBSAH KATALÓGU

3D kamerové zariadenia	5
Kontakt	12





3D VISION SYSTEMS

Whether performing a single profile measurement or scanning an entire surface in 3D, Cognex has the most powerful and robust 3D vision tools. Manufacturers in all industries trust Cognex technology to deliver high accuracy surface feature measurements that go beyond the capabilities of 2D vision technology.

3D-A5000 Series

State-of-the-art area scan 3D camera captures high-resolution 3D point cloud images in a fraction of the time of current methods. Using unique 3D imaging technology, it solves challenging assembly verification, in-line metrology, and robotic guidance applications.

3D RESOLUTION



1.5 million points

FEATURES



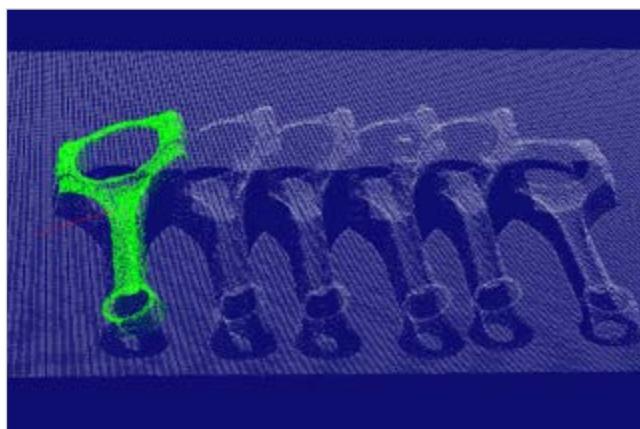
LightBurst



Factory
Calibrated



IP65



DSMax

Fast, high-definition laser displacement sensor for accurate 3D inspections of small, detailed parts. Ideal solution for electronic components which can contain highly reflective or dark features.

3D RESOLUTION

2000 points

FEATURES



DS1000/925B Series

Factory-calibrated displacement sensors perform fast, accurate, high-resolution 3D inspections, measurements, and OCR character reading. Equipped with industry-leading 3D vision tool and delivers results in real-world units.

3D RESOLUTION

1280 points

FEATURES



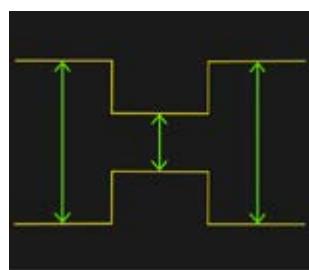
In-Sight Laser Profiler

A 3D projection-based measurement sensor used to verify dimensionality for gauging and measurement applications. Set up and deployed in 4 simple steps, it provides accurate and reliable measurements directly on the factory floor.

3D RESOLUTION

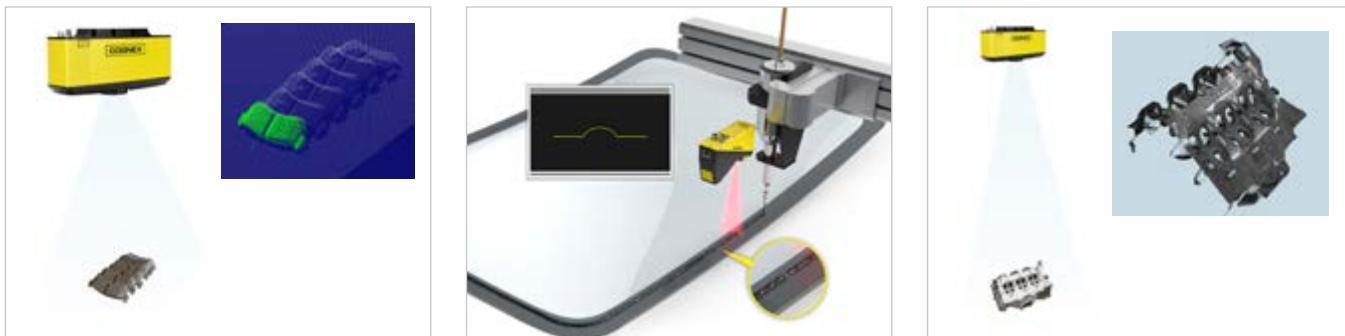
1280 points

FEATURES



3D VISION APPLICATIONS

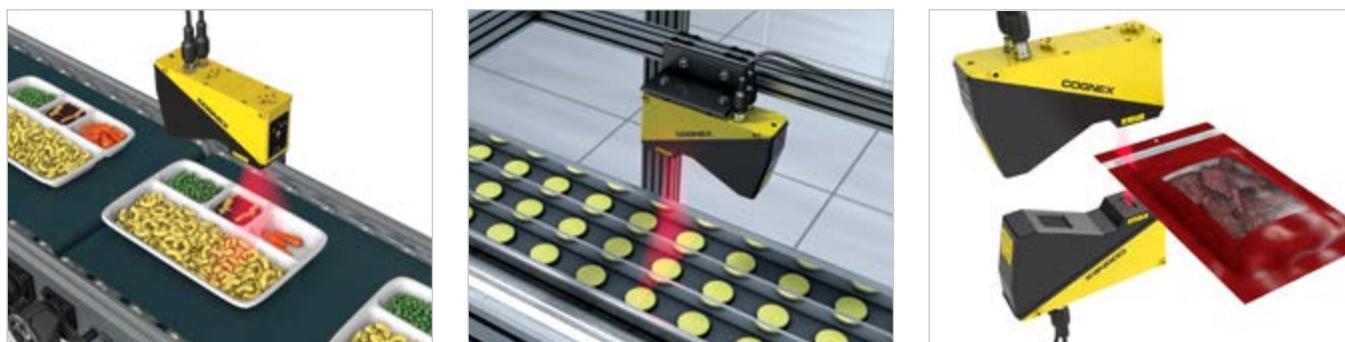
Automotive



Electronics



Food & Beverage



Consumer Products



3D VISION SYSTEMS SPECIFICATIONS

3D-A5000 Series

	3D-A5060	3D-A5030	3D-A5005
3D Technology	3D LightBurst Area Scan		
Clearance Distance (CD)	1400.0 mm (55.1 in)	1465.0 mm (57.7 in)	299.3 mm (11.8 in)
Measurement Range (MR)	400.0 mm (15.7 in)	80.0 mm (3.1 in)	12.0 mm (0.5 in)
Near FOV	520 x 390 mm (20.1 x 15.4 in)	280 x 210 mm (11.0 x 8.3 in)	60 x 44 mm (2.4 x 1.7 in)
Far FOV	645 x 490 mm (25.4 x 19.3 in)	285 x 216 mm (11.2 x 8.5 in)	65 x 46 mm (2.6 x 1.8 in)
Resolution XY	361–454 µm	195–200 µm	42–44 µm
Resolution Z	338–690 µm	178–213 µm	7–8 µm
Acquisition Time	200 msec		
Protection	IP65		
Software	VisionPro & Cognex Designer		

DSMax

	DSMax32T
3D Technology	Laser Displacement Sensor
Clearance Distance (CD)	51.4–62.3 mm (2.0–2.5 in)
Measurement Range (MR)	10.9 mm (0.4 in)
Near FOV	30 mm (1.2 in)
Far FOV	31.5 mm (1.2 in)
Resolution XY	14.6–15.4 µm
Resolution Z	2.5–2.8 µm
Acquisition Rate	Up to 18 KHz
Protection	IP67
Software	VisionPro & Cognex Designer

DS1000/900 Series 3D and In-Sight Laser Profiler

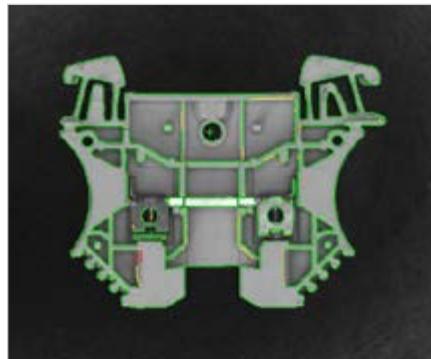
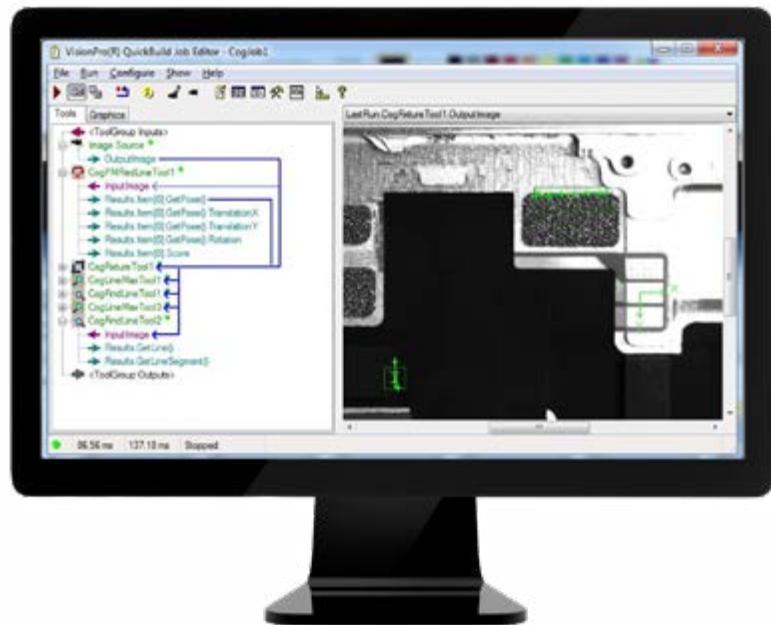
	DS1300	DS1101	DS1050	DS925B	DS910B		
3D Technology	Laser Displacement Sensor						
Clearance Distance (CD)	180 mm (7.1 in)	135 mm (5.3 in)	87 mm (3.4 in)	53.5 mm (2.1 in)	52.5 mm (2.1 in)		
Measurement Range (MR)	725 mm (28.5 in)	220 mm (8.7 in)	76 mm (3.0 in)	25 mm (1.0 in)	8 mm (0.3 in)		
Near FOV	90 mm (3.5 in)	64 mm (2.5 in)	43 mm (1.7 in)	23.4 mm (1.0 in)	9.4 mm (0.4 in)		
Far FOV	410 mm (16.1 in)	162 mm (6.4 in)	79 mm (3.1 in)	29.1 mm (1.1 in)	10.7 mm (0.4 in)		
Resolution XY	101–457 µm	79–181 µm	59–90 µm	18.3–22.7 µm	7.3–8.4 µm		
Resolution Z	16–265 µm	10–52 µm	4–14 µm	2 µm	1 µm		
Acquisition Rate	Up to 10 Hz			Up to 1.2 KHz			
Protection	IP65						
Software	In-Sight VC Explorer with EasyBuilder, VisionPro & Cognex Designer						

VISION SOFTWARE

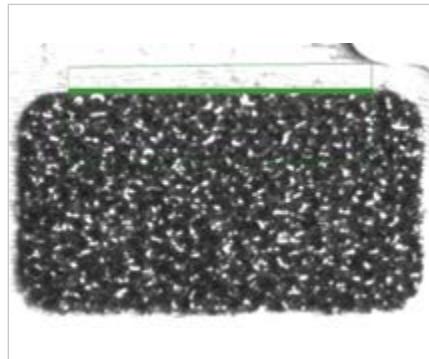
Cognex vision software provides the power and flexibility to solve your most challenging machine vision applications in a PC environment. It enables the highest speed applications with the flexibility to choose the camera needed for your vision application. In addition to the programmatic interfaces provided across the vision software products, VisionPro and Cognex Designer make application development easier than ever through their graphical development environments.

VisionPro

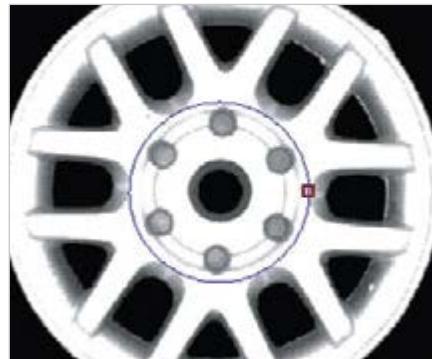
A powerful development environment to tackle any vision challenge. VisionPro enables the rapid development of sophisticated vision software through its extensive tool prototyping that allow you to visually define and tune your application. VisionPro's seamlessly integrated programming interface enables the deployment of highly-customizable applications on your PC platform.



PatMax
Object location



LineMax
Line finding



Blob Analysis
Geometric analysis

VisionPro ViDi

A best-in-class, deep learning-based image analysis software library for complex and human-like inspection applications in the same environment as machine vision tools.

This novel approach solves complex applications that are too difficult or time-consuming for traditional machine vision systems. It finds unpredictable defects while tolerating normal part and lighting variations.



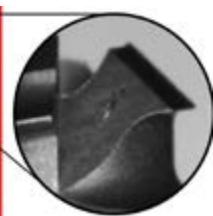
Locate

Finds and counts complex features and objects



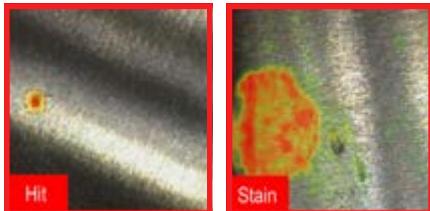
Analyze

Detects anomalies and cosmetic defects



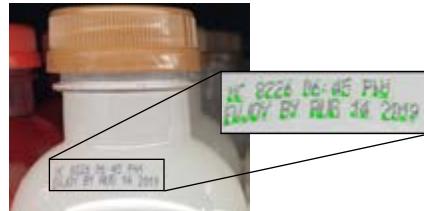
Classify

Classifies and sorts objects and complete scenes



Read

Reads challenging, deformed characters



Cognex Designer

Cognex Designer combines the power and flexibility of VisionPro with an intuitive graphical interface. Cognex Designer enables developer efficiency by simplifying HMI creation and application integration.



Cognex Vision Library (CVL)

Comprehensive C++ software vision library to provide the ultimate application development flexibility.

Vision Accessories

A wide variety of industrial cameras, frame grabbers, and I/O factory communication cards for system flexibility.



BUILD YOUR VISION

2D VISION

Cognex machine vision systems are unmatched in their ability to inspect, identify and guide parts. They are easy to deploy and provide reliable, repeatable performance for the most challenging applications.

www.cognex.com/machine-vision



3D VISION

Cognex In-Sight laser profilers and 3D vision systems provide ultimate ease of use, power and flexibility to achieve reliable and accurate measurement results for the most challenging 3D applications.

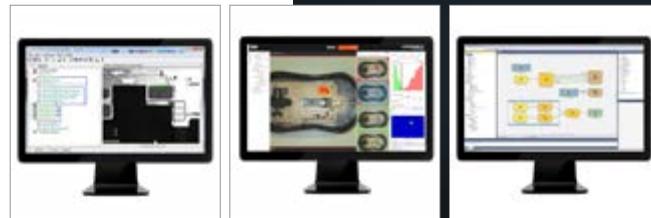
www.cognex.com/3D-vision-systems



VISION SOFTWARE

Cognex vision software provides industry leading vision technologies, from traditional machine vision to deep learning-based image analysis, to meet any development needs.

www.cognex.com/vision-software



BARCODE READERS

Cognex industrial barcode readers and mobile terminals with patented algorithms provide the highest read rates for 1D, 2D and DPM codes regardless of the barcode symbology, size, quality, printing method or surface.

www.cognex.com/BarcodeReaders



COGNEX

Companies around the world rely on Cognex vision and barcode reading to optimize quality, drive down costs and control traceability.

Corporate Headquarters One Vision Drive Natick, MA 01760 USA

Regional Sales Offices

Americas

North America +1 844-999-2469
Brazil +55 (11) 2626 7301
Mexico +01 800 733 4116

Europe

Austria +49 721 958 8052
Belgium +32 289 370 75
France +33 1 7654 9318
Germany +49 721 958 8052

Hungary +36 800 80291
Ireland +44 121 29 65 163
Italy +39 02 3057 8196
Netherlands +31 207 941 398
Poland +48 717 121 086
Spain +34 93 299 28 14
Sweden +46 21 14 55 88
Switzerland +41 445 788 877
Turkey +90 216 900 1696
United Kingdom +44 121 29 65 163

Asia

China +86 21 6208 1133
India +9120 4014 7840
Japan +81 3 5977 5400
Korea +82 2 539 9980
Malaysia +6019 916 5532
Singapore +65 632 55 700
Taiwan +886 3 578 0060
Thailand +66 88 7978924
Vietnam +84 2444 583358

www.cognex.com

© Copyright 2018, Cognex Corporation. All information in this document is subject to change without notice. Cognex, In-Sight, EasyBuilder, PatMax, VisionView, VisionPro, IDMax, 1DMax and PatQuick are registered trademarks of Cognex Corporation. Build Your Vision, In-Sight Explorer, PatMax RedLine, Cognex Connect, Cognex Designer, LineMax, OCRMax, QuickBuild, SurfaceFX and 2DMax are trademarks of Cognex Corporation. All other trademarks are the property of their respective owners. Printed in the USA. Lit. No. VG9001-2018-12-EN

PRÍďTE SA K NÁM POZRIEŤ

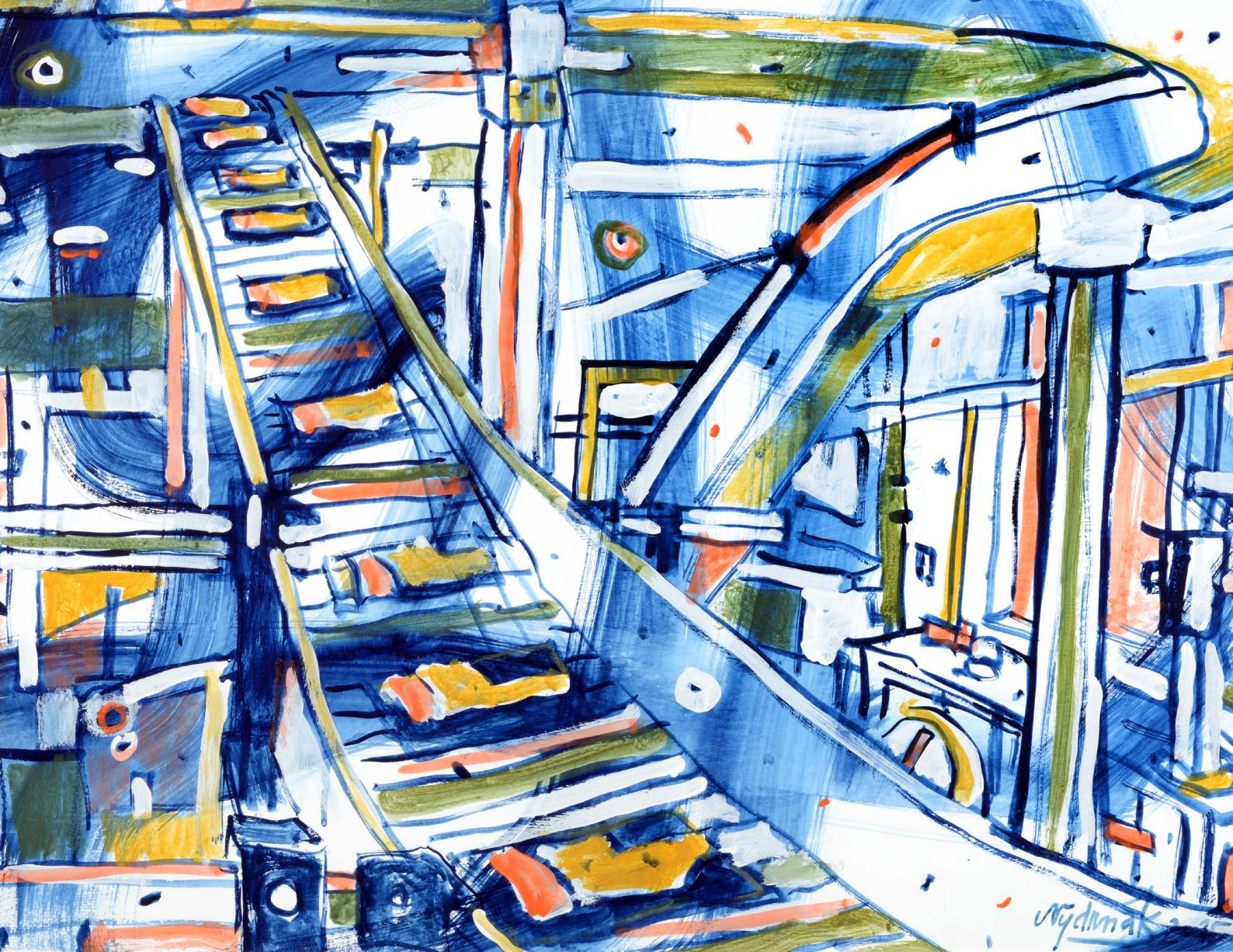
**Ozvite sa nám a prídeme spolu
na to, ako uľahčiť vašim ľuďom
aj tú najnáročnejšiu prácu.**



Viljam Lucký
obchodno-technický zástupca
pre strojové videnie

KONTAKT:
viljam.lucky@mts.sk
+421 907 954 812





Sídlo spoločnosti:
MTS, spol. s r.o.
027 55 Krivá 53
Slovak Republic

+421 43 5502 111
mts@mts.sk

www.mts.sk