

# COGNEX



**MOBILE SOLUTIONS**  
DO MORE WITH YOUR MOBILE DEVICE

# THE GLOBAL LEADER

## IN MACHINE VISION AND INDUSTRIAL BARCODE READING

**Cognex®, the leading supplier of machine vision and industrial barcode reading solutions.**

With over 2 million systems installed in facilities around the world and over thirty seven years of experience, Cognex is focused on industrial machine vision and image-based barcode reading technology. Deployed by the world's top manufacturers, suppliers and machine builders, Cognex products ensure that manufactured items meet the stringent quality requirements of each industry.

Cognex solutions help customers improve manufacturing quality and performance by eliminating defects, verifying assembly and tracking information at every stage of the production process. Smarter automation using Cognex vision and barcode reading systems means fewer production errors, which equates to lower manufacturing costs and higher customer satisfaction. With the widest range of solutions and largest network of global vision experts, Cognex is the best choice to help you **Build Your Vision.™**

**\$806  
MILLION**  
2018 REVENUE

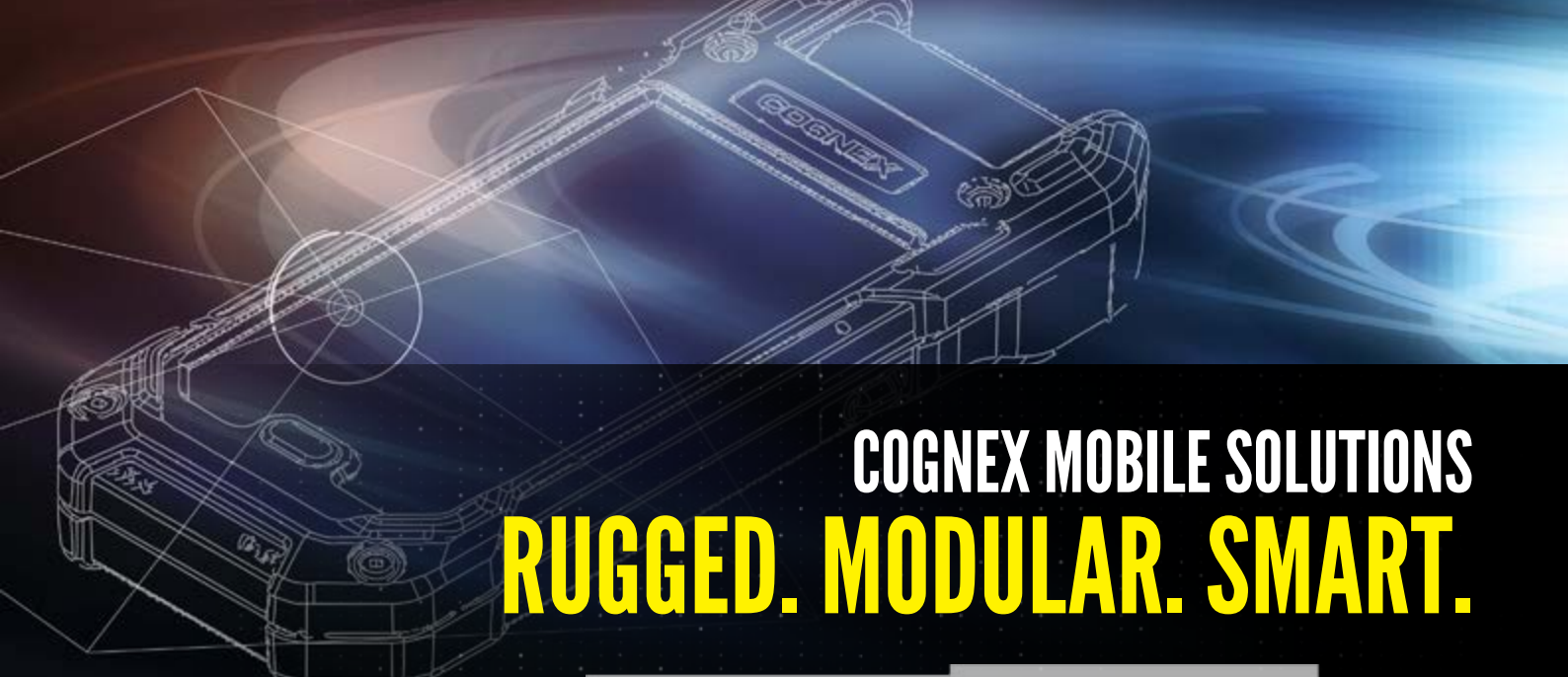
**OVER 37**  
YEARS IN THE BUSINESS

**500+**  
CHANNEL PARTNERS

GLOBAL OFFICES IN  
**20+ COUNTRIES**

**2,000,000+**  
SYSTEMS SHIPPED





# COGNEX MOBILE SOLUTIONS

## RUGGED. MODULAR. SMART.

Logistics and manufacturing operations rely on barcode reading to track, trace, and sort items to improve workflow processes at every stage. Mobile barcode reading solutions within the same organization often use different platforms on separate devices, resulting in multiple vendors, steep learning curves, and technology that quickly becomes obsolete.

Cognex offers the only end-to-end family of mobile scanning solutions, achieving best-in-class 1D, 2D, and direct part mark (DPM) barcode reading performance. Using the Cognex Mobile Barcode Software Development Kit (SDK) as the single application across your entire enterprise, choose from a vision-enabled mobile terminal, mobile barcode reader, or a built-in smartphone or tablet camera to solve your barcode reading challenges.

## INDUSTRIES

Cognex supplies mobile solutions to many industries, including:

- Logistics and Transportation
- Field Service and Utilities
- Couriers and Parcel Delivery
- Airports
- Automotive and Manufacturing
- Food and Beverage
- Consumer Products

### MX-1502 Series



### MX-1000 Series



### MX-100 Series



### Cognex Mobile Barcode SDK



# MX-1502 SERIES

## MOBILE TERMINAL

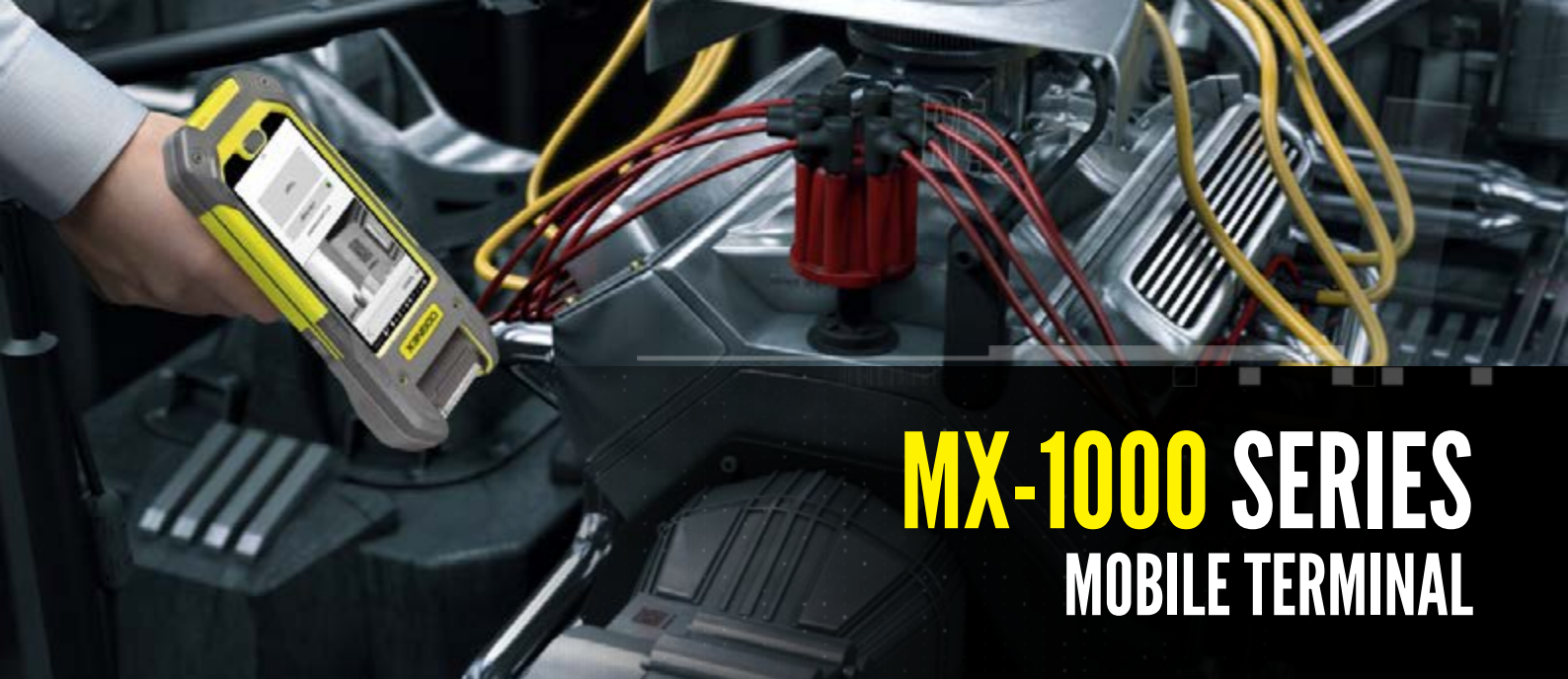
MX-1502 reads codes at standard, long, and extended-ranges, up to 10 meters away.

**Rugged**, IP-65 rated housing is designed to handle the harshest environments withstanding up to 50 drops from 2 meters onto concrete

**Modular**, future-proof design supports a variety of Android® and iOS® smartphones, lighting and optics, and a pistol grip accessory

**Smart** algorithms as well as high-powered optical technology read codes from as near as 15 cm to as far away as 10 m

**Cognex Mobile Barcode SDK** enables seamless integration with customer applications



# MX-1000 SERIES

## MOBILE TERMINAL

MX-1000 combines fast, image-based barcode reading with your mobile device for standard range 1D and 2D code reading applications.

**Rugged**, IP-65 rated housing is designed to handle heavy, industrial use and up to 50 drops from 2 meters onto concrete

**Smart** barcode algorithms reliably read direct part mark (DPM) codes and 1D and 2D label-based codes. Rotating scan head adjusts to optimal ergonomic scan angles.

**Modular** design supports a variety of Android and iOS smartphones and accessories



**Cognex Mobile Barcode SDK** enables seamless integration with customer applications

# MX-100 SERIES

## MOBILE BARCODE READER

MX-100 redefines smartphone barcode scanning performance with innovative aiming and lighting.

### Centered aiming pattern

in the field of view for intuitive barcode scanning

### Optical communication

protocol provides easy setup without the need for Wi-Fi, Bluetooth, or Lighting port configuration

### Cognex Mobile Barcode SDK

license supports a broad range of symbologies

### Diffuse lighting

for bright, even illumination

### Case slot

accommodates Otterbox® uniVERSE Case System® modules, like a device stand or credit card reader

```
AlertDialog.Builder devicePickerBuilder = new AlertDialog.Builder(mContext);
devicePickerBuilder.setTitle("Select device");

final ArrayAdapter<String> arrayAdapter = new ArrayAdapter<String>(mContext,
    android.R.layout.simple_list_item_1);
arrayAdapter.add("MX Scanner");
arrayAdapter.add("Mobile Camera");

if (cancelable) {
    devicePickerBuilder.setNegativeButton("Cancel", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            dialog.dismiss();
            initDevice();
        }
    });
}

devicePickerBuilder.setAdapter(arrayAdapter, new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialog, int which) {
        ScannerActivity.sharedPreferences.edit().putInt("selected_device", which);
        initDevice();
    }
});
}
```

# COGNEX MOBILE BARCODE SOFTWARE DEVELOPMENT KIT (SDK)

The Cognex Mobile Barcode SDK is a comprehensive software tool for all facets of mobile barcode scanning. It enables you to be more efficient by tailoring and maintaining a single application for all mobile devices across your entire organization.

The SDK can be used with any supported device, including:

- Smartphone and tablet cameras
- MX-100 Series mobile barcode readers (license included)
- MX-1000 and MX-1502 Series mobile terminals (license included)



## Tradeshow Tracking



## Inventory Management



## VIN Barcode Scanning



# LOGISTICS & TRANSPORTATION

## MOBILE SOLUTIONS APPLICATIONS

Close-up and extended range scanning capabilities are ideal for reading barcodes on packages, field service equipment, shipping labels, and luggage.

### Extended Range Scanning



### Field Service Maintenance



### Courier Delivery



### Airport Baggage Handling



# MANUFACTURING

## MOBILE SOLUTIONS APPLICATIONS

Cognex mobile solutions provide flexible options for scanning codes in factory settings and reading direct part mark (DPM) codes found on a variety of automotive parts and manufacturing assembly lines.

### DPM Decoding



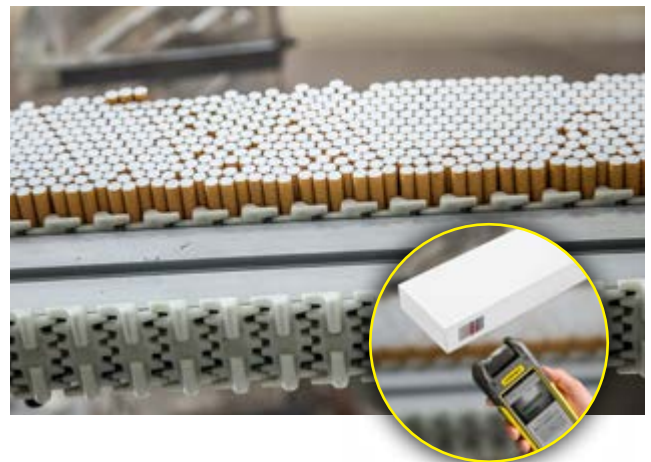
### Heavy Manufacturing



### Food Allergen Management



### Traceability and Compliance



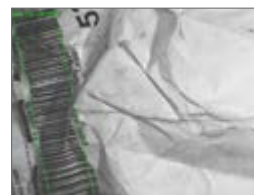
# COGNEX DELIVERS ADVANCED TECHNOLOGY

## Advanced Algorithms and Patented Technologies

Cognex mobile solutions are optimized with patented algorithms.

**1DMax with Hotbars**, the best-in-class 1D barcode algorithm can handle extreme variations in contrast, blur, damage, resolution, quiet zone violations, and perspective distortion, and can decode up to 10x the speed of a typical image-based reader.

**2DMax with PowerGrid**, a breakthrough in 2D decoding software, handles degradations to the appearance of 2D matrix codes, even when vital elements of the code are missing or damaged.



*Warped*



*Poorly marked*



*Small modules*



*Scratched*

## Supported Devices

Cognex's commitment to innovation helps protect your smartphone and technology investments. The modular design of Cognex mobile products supports a number of existing and future iOS and Android devices, leveraging the latest communication technologies including 3G, 4G, 4G LTE, Wi-Fi, Bluetooth and more.



### Samsung

- Galaxy A3
- Galaxy S4
- Galaxy S5
- Galaxy S6
- Galaxy S7
- Galaxy S8
- Galaxy J3
- Galaxy J5



### Apple

- iPod Touch
- iPhone 5/5s
- iPhone SE
- iPhone 6/6s
- iPhone 7/7 Plus
- iPhone 8/8 Plus

# SUPPORTED SYMBOLOGIES

Cognex mobile solutions support a broad range of barcode symbologies.

## 1D Codes



## 2D Codes



## Postal Codes



PLANET, Australian Post, Japan Post, Royal Mail, UPU

# MOBILE SOLUTIONS INDUSTRIES

## Logistics & Transportation



Close-up and extended range barcode reading capabilities are ideal for reading barcodes on products, packages, shipping labels, and high shelves.

## Couriers & Parcel Delivery



Unique modular designs allow employees and contractors to use preferred devices in the field for accurate barcode scanning of packages and parcels.

## Automotive & Heavy Manufacturing



Read direct part mark (DPM) codes found on a variety of automotive parts and manufacturing assembly lines.

## Field Services & Utilities



Easily integrate scanning capabilities with existing mobile phones to read 1D and 2D codes on work orders, replacement parts, and equipment.

## Airports



Standard and extended range scanning enables above and below-the-wing solutions for airports, including bag tag reading and tracking.

## Food & Beverage/Consumer Products



Mobile scanning products aid food allergen management, traceability and compliance, inventory tracking, and product quality.

# COGNEX

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

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Lit. No. MSPG-03-2019

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