

# Company Overview



# Welcome to CI Tech Components AG

## About CI Tech

**Switzerland-based CI Tech Components AG is a specialist in the validation and handling of banknotes, with various installations worldwide and templates with more than 80 currencies available.**

We have an excellent international network to provide first-class products and services, including currency support and technical customer support for integration and certification purposes.

The origins of CI Tech Components AG go back to BEB Industrie-Elektronik AG, which was founded in Burgdorf, Switzerland in 1981. BEB started out by developing industrial electronics for various sensor tasks and then began engaging in banknote recognition in 1995. In 2005, Wincor Nixdorf took over BEB and continued the development and production of banknote recognition sensors.

CI Tech Components AG was founded in 2011 as a joint venture between Giesecke & Devrient GmbH and Wincor Nixdorf AG.

The companies joined forces together and, through CI Tech Components AG, focused their expertise on OEM banknote validation sensors and banknote handling modules. Since the beginning of 2016, Giesecke & Devrient GmbH has been holding the majority of CI Tech Components AG, which is now a member of the G&D group.

All products and services are available to all market players without limitations or restrictions.



## Core Competencies

### Modules For Banknote Handling

With the modular design of our products and the available deposit, dispensing and recycling functionalities, we are able to flexibly develop solutions according to specific market demands in order to support our customers.

Our OEM modules are aimed at deposit and payment applications in the Retail, Transport, Financial Services and Banking market segments.

To meet the specific requirements of these market segments, we are committed to focusing on:

- > A high degree of modularity
- > Reliable banknote validation
- > High levels of quality and security
- > Support of cash management processes
- > Outstanding cost effectiveness during development, integration and product lifecycle

### Technology For Banknote Validation

With our technology for the validation of banknotes, CI Tech Components AG provides products that comply with regulations and meet specific market requirements.


Our OEM sensors are used for a wide range of deposit, dispensing and recycling applications in the Retail, Transport, Financial Services, Banking and Cash Center market segments.


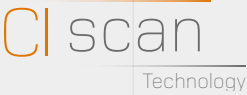
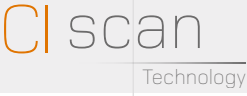
With more than 80 currencies available on our Currency Template Download Portal, we can provide our customers an innovative solution for updating installed sensors worldwide at any time.

The key functions of our sensors are:

- > Banknote recognition
- > Banknote authentication
- > Banknote denomination sorting
- > Banknote quality sorting
- > Banknote authenticity classification according to central bank requirements
- > Banknote fitness classification according to central bank requirements

# Product Overview

		Retail	Transport	Financial Services	Banking	Cash Center
<b>Module</b>	Short edge first					
						

		Retail	Transport	Financial Services	Banking	Cash Center
<b>Banknote Validation</b>	Short edge first					
						
	Long edge first					
						

# CI Scan Technology

Our 35 years of experience in the design and development of Sensor modules and Sensor technology for banknote validation, enables the reliable recognition, authentication, sorting and/or classification of nearly all banknotes and checks worldwide according to the regulations of national central banks.

Our Sensors are distinguished by their high degree of versatility and flexibility: customer requests and country requirements are incorporated in the construction of the Sensor. We accompany our customers throughout all phases of planning, integration and qualification and offer prompt response in the event of counterfeit incidents.

Based on this scalable technology platform, CI Tech Components offers customer specific single sensor solutions for integration into the transport path of a banknote handling machine or as a complete compact sensor system.

With our latest development project, MOVE CTT, we are extending our future product portfolio for Compact Tabletop Systems.

Furthermore, our Sensors offer the following features:

- > Fitness qualification
- > Simultaneous, fast and reliable processing of several currencies and denominations on the same sensor
- > Available as an "all-in-one" solution or single feature validation e.g. serial number reading
- > Serial number processing of dye stained banknotes from raids
- > Modular design to meet customer- and country-specific requirements
- > Currency configuration via software
- > We program and customize our currency templates quickly and securely
- > Available for feeding directions Long Edge First and Short Edge First

The logo for CI Scan Technology features the letters 'CI' in a large, orange, sans-serif font. To the right of 'CI' is the word 'scan' in a smaller, grey, lowercase sans-serif font. Below 'scan' is the word 'Technology' in a grey, lowercase sans-serif font. A thin orange horizontal line is positioned above 'scan', and a thin grey horizontal line is positioned below 'Technology'.

CI scan  
Technology

# Products & Segments



## Retail

### Applications:

Checkout solutions, Back office

### Products:

#### Module

##### CI Note Line



- > Reliability and low jam rate
- > Very cost efficient thanks to its modular design
- > Easy handling and jam recovery
- > High capacity
- > Deposit and/or recycling functionality

#### Banknote Validation

##### CashRay 90



- > Multifunctional, short edge sensor family
- > Proven and certificated technology
- > Adaptable to over 80 currencies



## Transport

### Applications:

Ticket vending, Parking, Toll collection, Fuel payment

### Products:

#### Module

##### CI Note Line



- > For single banknotes
- > Reliability and low jam rate
- > Low service requirements
- > Long life span
- > Deposit and/or recycling functionality

#### Banknote Validation

##### CashRay 90



- > Multifunctional, short edge sensor family
- > Proven and certificated technology
- > Adaptable to over 80 currencies

#### BIM



- > Proven cash-in module for single banknotes
- > Robust and reliable design with a long life span



# Financial Services

## Applications:

Currency exchange, Utility payment

## Products:

### Module

#### CI Note Line



- > Very reliable counterfeit recognition (According to ECB recirculation framework & Art. 6 regulation)
- > Very cost efficient thanks to its modular design
- > Easy handling and jam recovery
- > High deposit capacity (up to 2'000 BNs)
- > Deposit and recycling functionality

#### BIM



- > Proven cash-in module for single banknotes
- > Robust and reliable design with a long life span

### Banknote Validation

#### CashRay 90



- > Multifunctional, short edge sensor family
- > Proven and certificated technology
- > Adaptable to over 80 currencies

### CI Scan Serial Number



- > Component for reading and recording banknote serial numbers
- > Can be integrated into new and existing Kiosks / ATMs
- > High recognition rate
- > Long edge first



## Banking

### Applications:

Cash deposit, ATM, Banknote processing

### Products:

#### Module

##### CI Note Line

- > Very reliable counterfeit recognition (According to ECB recirculation framework & Art. 6 regulation)
- > Very cost efficient thanks to its modular design
- > Easy handling and jam recovery
- > High deposit capacity (up to 2'000 BNs)
- > Deposit and recycling functionality



#### Banknote Validation

##### CashRay 90

- > Multifunctional, short edge sensor family
- > Proven and certificated technology
- > Adaptable to over 80 currencies



#### CI Scan Serial Number

- > Component for reading and recording of banknote serial numbers
- > Can be integrated into new and existing Kiosks / ATMs
- > High recognition rate
- > Long edge first



## Cash Center

### Applications:

Banknote processing

### Products:

#### Banknote Validation

##### CI Scan Serial Number

- > Component for reading and recording banknote serial numbers
- > Can be integrated into new and existing sorting and processing machines
- > High recognition rate
- > Long edge first





# Integration Services

Overall performance of solutions directly relates to OEM product integration and qualification in the customer's environment.

Our Technical Customer Support team is a single point of contact for our customers; it accompanies the entire planning, integration and qualification process. This process is individually adapted to the customer's needs and application-specific requirements. Furthermore, our team supports you with training and all the necessary documentation.

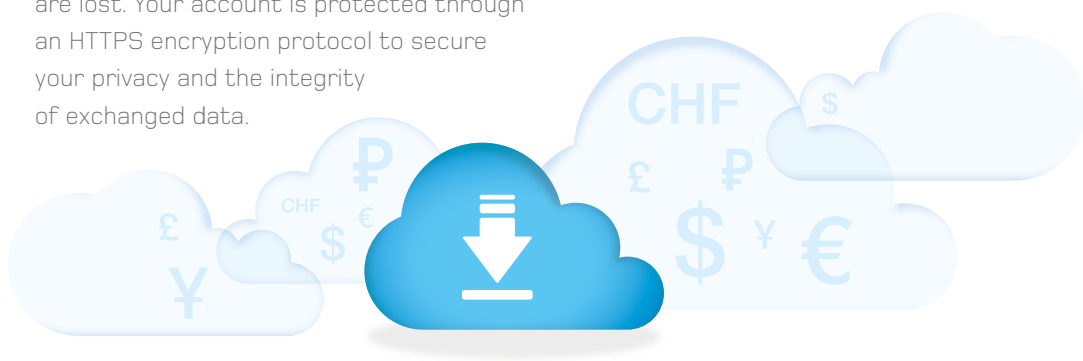
When it comes to first or regular certifications, our customers benefit from the expertise of our Technical Customer Support team and our international partner network of central banks and banknote suppliers. That makes it possible for us to offer our customers full certification support.

# Currency Template Download Portal

With our new **Currency Template Download Portal**, we provide operators a quick and reliable template update process for all systems installed in the field and equipped with the CashRay 90 Sensor, as well as for the CI Note Line product range and the BIM Module.

Currency templates are updates that enable banknote sensors to take the latest banknote changes into account for various currencies without having to exchange any hardware. Our customers can choose from more than 80 currencies, 4 mixed adaptations are even offered free of charge. Single currency templates, as well as region-specific multi-currency templates, are offered as downloads for authorized customers, such as system integrators, operators or service organizations for banknote processing systems, e.g. in self-service machines.

With the personal login, our customers obtain global 24/7 access to all their needed templates. Automatically generated e-mail notifications guarantee that no updates are lost. Your account is protected through an HTTPS encryption protocol to secure your privacy and the integrity of exchanged data.



# Your contact at CI Tech Components AG

## Headquarters

CI Tech Components AG  
Oberburgstrasse 10  
CH-3400 Burgdorf  
Switzerland

Phone +41 (0)34 420 88 33  
Fax +41 (0)34 420 88 39  
[www.citech.com](http://www.citech.com)

## Info

[info@citech.com](mailto:info@citech.com)

## Technical Customer Support

[support@citech.com](mailto:support@citech.com)

