SUZOHAPP

Components for Gaming and Sports Betting Kiosk Manufacturers

LED Light Strips

Touchscreen & Secondary Screen

Speakers, Amplifiers

Boards

Printers

Pushbuttons, DPS, LCD Button Decks

Locks

Power Supplies, UPS, Line Filters

Toppers, Tower Lights

Mechanical Reels and Wheels

Bill Validators

Coin Entries and Validators

Amusement Control Devices

Hoppers

Cooling Fans

Door Switches

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ΞSUZOHAPP

SUZOHAPP is a technology company with over 50,000 gaming, amusement, sports betting, lottery and bingo products for casino operators and gaming OEMs. Products include LCDs, sport betting solutions, toppers, hoppers, locks, coin/bill/reel mechanisms and buttons/decks. SUZOHAPP is also a leading software and hardware supplier of complete cash management solutions typically found anywhere from cashier cages to large-scale back office operations. SUZOHAPP is a global company with offices in 19 countries serving over 25,000 customers with regional delivery, local support and quick customization.

1,100+	**50,000+**	**35**	**25,000**	**115**	**Hundreds**
employees	products	facilities	customers	engineers	of patents

VISION

To be the global market leader in technology-driven cash management, self-service, and gaming devices through our commitment to people, customers, and quality

MISSION

To provide our customers with excellent service and high quality components, solutions, and software that create significant value for their business

CORE VALUES

AGILITY	CUSTOMER FOCUS	INNOVATION	INTEGRITY	RELIABILITY	TEAMWORK

PRODUCT BRANDS

SUZOHAPP is a diverse company with multiple brands and product lines

SCAN COIN CashComplete™ Comestero Bill to Bill currenza G²

COINCO VisionPro™ CompetitionPro BilliardPro InteractivePro

We take pride in our products, we take care of our customers and we value our people

Global Reach

SUZOHAPP is a global company with a worldwide presence and a diverse workforce. SUZOHAPP has grown rapidly to meet the needs of the markets, expanding the breadth of its product offering and service capability. Its best-in-class product and service offerings create significant value and operational efficiencies for customers all over the world.

- International coverage through national subsidiaries
- Worldwide presence with a global service network
- Distribution partners all around the globe
- Variety of customers across multiple business segments

Around The World & Around The Corner

In addition to the offices and manufacturing sites located on the map, SUZOHAPP has strategic partnership agreements with Value Added Distributors, Gaming Channel Partners, and Contract Service providers in those regions where market or license conditions dictate.

Your Strategic Partner

SUZOHAPP's logistical support and supply chain configuration builds on its total value proposition by providing customers with cost saving delivery "From Our Door to Your Production Floor". Through continuous communication and feedback, the SUZOHAPP supply chain team works closely with customers and factories to maintain a steady product supply while eliminating costly additional inventory. We are firmly committed to providing the best customer service to all customers.

Manufacturing Capabilities

Adding Value Through Manufacturing

SUZOHAPP continually improves its engineering, manufacturing, service and distribution capabilities to meet the needs and exceed the expectations of its valued customers. With many years of industry experience and production excellence, SUZOHAPP has developed innovative customer-centric engineering and manufacturing processes.

SUZOHAPP designs and manufactures products that are used extensively in Gaming and Amusement devices as well as in demanding Industrial, Vending, and Transportation applications. In-house design, development and production resources located in multiple SUZOHAPP facilities, ensure that projects are efficiently taken from concept to completion.

DESIGN & ENGINEERING

Design & Prototyping

Equipment
- CAD workstations
  - Pro/Engineer
  - SolidWorks
  - AutoCAD
- FDM prototyping machine (3D printing technology)

Capabilities
- Quick turn-around
- In-house prototyping

Resources
- 30 Engineers
  - Electrical
  - Mechanical
  - Software

LCD, TOPPERS & KIOSKS

LCD Production

Equipment
- Integrated toppers
- OEM open frame
- LCD integration
- Signage & custom assemblies
- Bid specification & RFQ

Capabilities
- 20,000 pieces per year

Resources
- 3 Engineers

PLASTIC INJECTION, TOOL & DIE

Direct Injection

Equipment
- 5 - CNC mills
- 5 - Lathes and grinders
- 1 - Wire EDM
- 28 Injection machines

Capabilities
- Sizes from 25-1,600 tons
- 20 million pieces per year
- 24 hour operation
- Insert & over-molding
- Design to first shoot within 10 days
- 15 tools per month

Resources
- 65 dedicated staff
- +35 flex staff

PCB PRODUCTION

PCB Production

Equipment
- SMT high speed mounter
- SMT inspection
- Wave solder

Capabilities
- Surface mount
- Through-hole
- 150,000 boards per month

Resources
- 25 dedicated staff
- +15 flex staff

ASSEMBLY

Assembly

Equipment

- 12 - Conveyor lines
- 30 - Workstation cells

Capabilities

- 50 assemblies per hour, per line/cell
- Service and Repair
- Assemblies with up to 1,000 components

Resources

- 100 dedicated staff
- +100 flex staff

QUALITY ASSURANCE

Quality

Highlights

- ISO 9001
- Testing services and capabilities

Resources

- 30 FTEs in area of quality control and assurance

Manufacturing and Distribution Facilities

Manufacturing Site and Logistics Hub Poland

- Poznan, Poland
- 20,000 sqm
- 130 employees
- 400 product lines produced daily

- Coin validators, coin and bill recyclers, change machines, cash points for self-service laundrettes, car wash starter systems, cash management solutions

Manufacturing Site China

- Zhuhai, China
- 12,000 sqm
- 250 employees
- Turnkey design / manufacture
- Interactive touch displays
- Transparent LCD technologies
- Cash handling technologies

- Printers, card/barcode readers, NFC/RFID, cameras
- Kiosks, loyalty and betting terminals
- Digital signage
- LED lighting and back lighting technologies

Manufacturing and Distribution Site North America

- Mount Prospect, IL and Las Vegas, NV production locations
- Over 6,000 sqm
- Assembly, Distribution, Service and Support

- Cash Management Solutions: Note recyclers, coin recyclers, deposit safes
- Components & OEM: Joysticks, buttons, coin doors, LCDs, reel mechs, toppers, game controls

R&D Capabilities

Investment in research and development is a top priority

Global product management teams meet continuously to develop new products and custom solutions for customers' ever changing needs. Dedicated industrial, mechanical, and electrical engineering teams provide complete design, as well as component selection. SUZOHAPP utilizes contemporary modeling technology to produce accurate designs with competitive costs and short lead times.

Technology Centres

NCS Technology Centre
- Cash management solutions and components
- Gaming and Amusement controls
- Custom OEM solutions
- Cashless payment systems
- Software

EMEA Technology Centre
- Cash management solutions and components
- Cashless payment systems
- Car wash control systems and laundry cash points
- Displays
- Software

APA Technology Centre
- Displays
- Self-service automation and software systems
- Mechanical systems
- Electrical controls and tool design

≡STS

SUZOHAPP's Research & Development team is centralized into one global engineering centre of excellence, SUZOHAPP Technology Services (STS). This highly skilled department develops and supports the company's core technology, accelerates new product development and leads the introduction of innovative technologies.

Design activities and expertise provided include:

- Turnkey design/manufacture of individual parts to complete machines - from concept development through final, highly engineered solutions
- 2D and 3D CAD Design – using SolidWorks for part/assembly modelling and drawings
- Metalwork / plastic design and electrical/wiring harnesses, virtual and physical prototyping, and product renderings
- Design of injection molds and tooling
- Rapid prototyping through in-house 3D printing capabilities
- Proprietary electronics and PCB Design using the leading software package Altium
- Programming for microprocessors and Advanced Risk Machines (ARM, software development in most operating systems including Windows, Linux and Android OS
- Compliance testing and documentation, including UL

Examples of some of the technologies SUZOHAPP works with:

- The latest LCD and touchscreen technologies, including projective capacitance
- LED lighting and back lighting technologies
- Embedded micro controllers and CPUs
- Electromechanical and mechanical systems

SUZOHAPP's dedicated team has been central to the success of many product deployments to the global amusement, gaming, industrial, transportation and vending markets.

Projects have included:

- LCD retrofit integration
- Custom designed displays, including transparent LCD technology
- Interactive touch displays, large and small
- Cash handling technologies
- Printers, card/barcode readers, NFC/RFID, cameras
- Kiosks, loyalty and betting terminals
- Digital signage

Workshop Service

Highly experienced lab technicians can repair parts to component level, utilizing the latest diagnostic equipment and techniques. SUZOHAPP can also redesign, re-engineer, restore or re-manufacture parts and components reducing your business maintenance costs.

Repair Services

- Electronic gaming machines
- Jackpot systems and player tracking hardware
- POS systems, ATMs, self-service terminals
- Cash handling – bill acceptors, coin mechanisms, hoppers
- Data scanners, PDAs, PC mainboards, logic boards
- LCD displays, touchscreens
- LCD and CRT monitors, power supplies
- Electronic assembly and manufacturing services
- Electronic kiosks
- Wagering terminals
- Other electro-mechanical assembly work

SUZOHAPP technicians are highly skilled

- IPC certified specialist technicians ensure the highest quality in surface mount, hole through and wave soldering
- Experienced in repairing multilayer boards
- Ability to perform circuit programming (FPGA, JTAG) and program microprocessors (TQFP, SSOP, EPROM)

SUZOHAPP technical experts:

- Re-work and re-flow BGA ICs
- Give logic boards, main boards and A-D boards a new lease on life
- Refurbish circuit boards for most popular gaming machines and electronic equipment
- Repair bill validators, ticket printers, hoppers and coin mechanisms, giving considerable savings compared to the cost of replacement

Components
and Sports Betting

LED Light Strips

Touchscreen &
Secondary Screen

Speakers,
Amplifiers

Boards

Printers

Pushbuttons, DPS,
LCD Button Decks

Locks

Power Supplies,
UPS, Line Filters

Toppers,
Tower Lights

Mechanical
Reels and Wheels

Bill Validators

Coin Entries
and Validators

Amusement
Control
Devices

Hoppers

Cooling Fans

Door
Switches

Simplify your sourcing with our broad product

for Gaming
Kiosk Manufacturers

Boards

Pushbuttons, DPS,
LCD Button Decks

Speakers,
Amplifiers

Cabinets

Cashless

Locks

Power Supplies,
UPS, Line Filters

Cooling Fans

Touchscreen &
Secondary Screen

Printers

Bill
Validators

Coin Entries
and Validators

Hoppers

Barcode
Scanners

Door
Switches

range, local resources, and global capability

SUZOHAPP

VisionPro™

High Quality LCDs for Gaming, Amusement, Sports Betting, Lottery, and Bingo

OEM Touch and Non-Touch

VisionPro™ is SUZOHAPP's premium line of LCDs using top panel brands and high-quality boards. Fast customization is available for both OEMs and upgrades: 6.2" to 90", specialized panels and integration, customized metal, touchscreens and inputs.

Features:

- Standard sizes from 15" to 43"
- Choice of
  - 10+ touch Projected Capacitive (PCAP), true-flat, seamless edge-to-edge glass
  - 3M Surface Capacitive (SCAP) touch technology
  - Protective Glass
- Standard and wide viewing angle units available

- Common footprint for touch and non-touch variations
- DVI and VGA, HDMI and DisplayPort available
- LED options for surrounding display
- Economically priced
- 1-year standard warranty

Model	Size/Aspect ratio	Resolution	Viewing angle	Panel Brightness	Contrast	Touch/Glass
49-1902-DA	19" 5:4	1280x1024	178˚x178˚	250 cd/m²	1000:1	Optional I/R USB or serial
150TFTx2157	21.5" 16:9	FHD	170˚x160˚	250 cd/m²	1000:1	3M touch or tempered glass
150TFTG2153	21.5" 16:9	FHD	178˚x178˚	250 cd/m²	1000:1	Black edge-to-edge tempered glass
49-3306-02	21.5" 16:9	FHD	178˚x178˚	250 cd/m²	1000:1	3M USB or serial
150TFTx2206Mxx	22.0" 16:10	1680x1050	178˚x178˚	250 cd/m²	2000:1	3M touch or tempered glass
150TFTx2382	23.8" 16:9	FHD	178˚x178˚	250 cd/m²	1000:1	PCAP and matching glass version
150TFTx2306xxx	23.0" 16:9	FHD	178˚x178˚	250 cd/m²	1000:1	3M touch or tempered glass
150TFTS2414Mxx	24.0" 16:10	1920x1200	178˚x178˚	300 cd/m²	1000:1	3M USB or serial
150TFTx2411xxx	24.0" 16:10	1920x1200	178˚x178˚	300 cd/m²	1000:1	3M touch or tempered glass
150TFTx2705X	27.0" 16:9	FHD	178˚x178˚	300 cd/m²	3000:1	PCAP and matching glass version
and many more, see suzohapp.com/monitors						

VisionPro™

LED-Framed Monitors
LCDs Accented with a Frame of Color!

A Range of Sizes, Touch and Non-Touch,
Addressable or RGB LEDs, in Three Designs

Halo

Edge

NEW

Front

CHOICES

1 Size 21.5"   23.8"   27"   32"   43"

2 Design
- **Halo** illumination surrounding the display, external VESA mount
- **Edge** and front illumination external VESA mount
- **Front** illumination for flush integration within a cabinet

3 LEDs
- **RGB** solid color, 12V without IC
- **Addressable** individually driven, 5V with IC

4 Touch or Non-Touch
- **10-touch PCAP** (Projected Capacitive technology) **behind 3mm tempered glass**
- Non-touch 3mm tempered painted glass

FEATURES

- Rigid high-quality PCB-mounted LEDs, no adhesive strips, no hotspots, no dark corners
- True-flat, black closed-frame designs
- 21.5"/ 23.8": 250 cd/m², 1000:1
  27": 300 cd/m², 3000:1
  32": 400 cd/m², 1200:1
  32" (P): 500cd/m², 3000:1
  43": 450 cd/m², 1100:1
  43" 4K UHD: 500 cd/m², 4000:1

- FHD 1920x1080, WVA 178˚x 178˚ for landscape or portrait usage (43" 4K UHD 3840x2160)
- 10-touch PCAP for Windows 7 or later, Linux 4.4 or later
- Dual-line LEDs in Addressable versions
- VGA + DVI standard, HDMI and DisplayPort available (4K UHD: HDMI/DP only)

- 12VDC (24VDC for 32", 43"), optional 100-240V AC brick
- Operating temperature: 0-50˚C (32-122° F)
- FCC, CE, RoHS
- Drawings and CAD files available on request
- Customization possible

VisionPro™

② Design

Halo Design
For floating monitor outside your cabinet. Surround color in front, side, rear for a halo effect.

Edge Design
For front and edge illumination, external use.

Front Design
For mounting monitor flush inside your cabinet.

CHOOSE FROM OVER 50 VARIATIONS!

① Size	② Design	③ LEDs	Max Dimensions (WxHxD)	Part Number ④ Touch or Non-Touch	
21.5"	Front	RGB	542 x 336.6 x 51.0 mm (21.3" x 13.3" x 2.0")	150LP2150	150LG2150
		Addressable		150LP2152	150LG2152
	Edge	RGB	542 x 336.6 x 53.3 mm (21.3" x 13.3" x 2.1")	150DLP2155	150DLG2155
		Addressable		150DLP2156	150DLG2156
	Halo	RGB	562.6 x 357.2 x 56.0 mm (22.1" x 14.1" x 2.2")	150DLP2151	150DLG2150
		Addressable		150DLP2150	150DLG2150
23.8"	Front	RGB	588 x 367 x 51.0 mm (23.1" x 14.4" x 2.0")	150LP2380	150LG2380
		Addressable		150LP2382	150LG2382
	Edge	RGB	588 x 367 x 53.3 mm (23.1" x 14.4" x 2.1")	150DLP2385	150DLG2385
		Addressable		150DLP2386	150DLG2386
	Halo	RGB	608.6 x 387.6 x 56.0 mm (24" x 15.3" x 2.2")	150DLP2381	150DLG2381
		Addressable		150DLP2380	150DLG2380
27"	Front	RGB	660 x 407 x 51.0 mm (26" x 16" x 2.0")	150LP2700	150LG2700
		Addressable		150LP2702	150LG2702
	Edge	RGB	660 x 407 x 53.3 mm (26.0" x 16.0" x 2.1")	150DLP2705	150DLG2705
		Addressable		150DLP2706	150DLG2706
	Halo	RGB	680.6 x 427.6 x 56.0 mm (26.8" x 16.8" x 2.2")	150DLP2701	150DLG2701
		Addressable		150DLP2700	150DLG2700
32"	Front	RGB	773.8 x 481.8 x 59.8mm (30.5" x 19.0" x 2.4")	150LP3200	150LG3200
		Addressable		150LP3202	150LG3202
	Edge	RGB	774 x 482 x 65.0 mm (30.5" x 19.0" x 2.4")	150DLP3205	150DLG3205
		Addressable		150DLP3206(P)	150DLG3206
43"	Front	RGB	1040.0 x 630.0 x 67.0mm (40.9" x 24.8" x 2.6")	150LP4300	150LG4300
		Addressable		150LP4302	150LG4302
	Edge	RGB	1040 x 630 x 67.0 mm (40.9" x 24.8" x 2.6")	150DLP4305	150DLG4305
		Addressable		150DLP4306	150DLG4306
43" 4K UHD	Edge	RGB	1040.0 x 630.0 x 67.0mm (40.9" x 24.8" x 2.6")	150DLP4345	-
		Addressable		150DLP4346	-

Elo Touch Solutions
Open Frame Gaming Monitors

Brilliant Display. Superior Quality. Competitive Price.

Engineered and designed specifically for the demanding requirements of the gaming industry, the 90-Series open-frame displays feature touch technzat is built-in rather than glued-on. Elo is the world leader in commercial touch with over 20 million installations, half a million units per year, nearly 2.000 units per day.

Select from a wide range of sizes from 10" to 27" to fit in any gaming environment. Other Elo products extend the range to 70".

Only Elo produces the touchscreens, controllers, drivers, and monitor for a complete solution proven in 10,000s of gaming installations.

Take advantage of these great features:

- Next generation Projected Capacitive (PCAP) 2GS technology (2 glass solution)
- Highest optical quality and longevity as no plastic films, no metal mesh
- 10-touch true-flat solution
- Thru-glass mode which operates through up to 6 mm customer-supplied glass
- Common mechanical and electrical components across the line for easy design-in, compliance testing, service, and transition between sizes
- HDMI, DisplayPort, VGA inputs, with common port design across all units

- Built-in watertight edge seal
- Magnetic tethered OSD control box
- Unique field-replaceable touchscreen glass design
- Global agency approvals: United States UL, FCC; Europe CE TÜV; Australia RCM; Canada cUL, IC; China CCC; Japan VCCI; Korea KCC; Mexico CoC; Taiwan BSMI; International CB; RoHS
- Passes UL and IK07 Ball Drop tests
- 50,000 hour demonstrated MTBF
- 3-year standard global warranty

New sleek finished enclosure

Model	Diagonal size	Aspect ratio	Contrast ratio	Brightness (panel)	Viewing angle	Native resolution
1093L	10.1"	16:10	800:1	350 nits	85°/85° or 170°/170°	1280 x 800 at 60Hz
1291L	12.1"	4:3	1500:1	450 nits	89°/89° or 178°/178°	800 X 600 at 60Hz
1590L	15"	4:3	800:1	300 nits	80°/70°- 80° or 160°/150°	1024 X 768 at 60Hz
1593L	15.6"	16:9	500:1	300 nits	80°/80° or 160°/160°	1366 x 768 at 60Hz
1790L	17"	5:4	1000:1	250 nits	85 °/80° or 170°/160°	1280 x 1024 at 60Hz
1990L	19"	5:4	1000:1	250 nits	85°/80° or 170°/160°	1280 x 1024 at 60Hz
1991L	19"	5:4	1000:1	250 nits	89°/89° or 178°/178°	1280 x 1024 at 60Hz
2094L	19.5"	16:9	3000:1	250 nits	89°/89° or 178°/178°	1920 x 1080 at 50, 60Hz
2293L	21.5"	16:9	1000:1	250 nits	85°/80° or 170°/160°	1920 x 1080 at 50, 60Hz
2294L	21.5"	16:9	1000:1	250 nits	89°/89° or 178°/178	1920 x 1080 at 50, 60Hz
2494L	23.8"	16:9	3000:1	250 nits	89°/89° or 178°/178	1920 x 1080 at 50, 60Hz
2794L	27"	16:9	3000:1	300 nits	89°/89° or 178°/178	1920 x 1080 at 50, 60Hz

10" to 27" desktop touchmonitors, All-in-Ones and interactive digital signage from 10" to 70"

SUZOHAPP also distributes the complete line of Elo Touch Solution products — seen in cashier cages, sports betting outlets, and on the gaming floors in top casinos around the world. Monitors and All-in-Ones for front/back office, interactive digital signage, bingo, lottery, sports betting, player tracking, loyalty systems and POS.

SH1950 Video Topper

19.5" high viewing angle panel with LED back light

The SH1950 Video Topper consists of a 19.5" wide viewing angle panel with LED back light, VGA or DVI cable out, 12V input and can be equipped with a black or chrome bezel. The sides have RGB illumination covered by an acrylic front plate. The SH1950 Video Topper and Edge Lit Topper are manufactured in SUZOHAPP China, in accordance to the highest standards. Final assembly, as well as customizations are done at a regional production facility.

The SH1950 Video Topper is a great addition to every cabinet!

RGB LED illumination, covered by an acrylic front plate

RGB optional with or without controller

Classic mini tower light chrome 2 lamp or 3 lamp or no mini tower light optional

Black or chrome bezel

19.5" high viewing angle panel with LED back light (optional without LCD to be used as a light box)

RGB Mini Topper

- ✔ Whole unit operates on a safe 12Vdc
- ✔ Different attract modes in a program such as twinkling, full on, rotating left to right and right to left, filling rotation etc
- ✔ Standard supplied with 32 bright white LEDs (7 different light brightness selections on the topper control board)
- ✔ Standard supplied with bright chrome bezel
- ✔ Mounting location and through holes for tower lights in the top of the body
- ✔ Flat, angled or radius base options for different cabinet configurations, easy mounting with two threaded studs
- ✔ Metal mounting bracket available for mounting on existing tower light fitting holes, to be used in conjunction with mounting bracket

RGB Polygon Topper

- ✔ Completely backlit thanks to bright white LEDs
- ✔ Includes tower light with color foils
- ✔ On board PCB allows stand-alone operation or synchronization of up to eight topper boxes
- ✔ Seven pre-programmed flashing patterns
- ✔ Different attract modes including full on, rotating left to right and right to left, flashing and more
- ✔ Optional mounting base available
- ✔ Artwork not included

RGB Tower Light Topper

- ✔ Designed to be mounted on top of any standard round classic tower light
- ✔ Great for advertising special machine features such as Multi-Denomination, Ticket-In Ticket-Out, Hot New Game, Server Based Gaming, etc.
- ✔ Translucent bezel with 20 ultra bright Nichia multi-color
- ✔ RGB LED's provide light output for a elegant multi-colored lightshow
- ✔ Pre-programmed with 8 unique flashing patterns and 7 different color combinations
- ✔ Several optional base/cap adapters make it easy to use on other styles of tower lights

Accessories

Ballast

Mounting base - flat

Synchronizer

Compact fluorescent lamp

Power supply

RGB LED light strips

Mounting base - 15° Slant angle

LED light strip controller

Dual-Sided LCDs
Interior Signage

Perfect for casinos, table games, signage or other interior environments

With its stylish design the Dual-Sided LCDs displays are a slick way to share content, catching customers coming and going. Available in three distinct sizes to insure the perfect fit for your venue. The low power requirements allow the display to stand out just about anywhere. To eliminate dual graphic and multiple PC issues both displays are driven by a single HDMI signal source.

FHD LED industrial wide viewing angle panel

HDMI connection

One signal source for dual display

12VDC input power

Black bezel with colored inner frame

Custom† length round mounting pole available

Adjustable rotation mounting plate

FCC, CE and RoHS Compliance

21.5" and 27" Landscape LCD

23" Portrait LCD

1 M† round pole with black bezel with added gold* edge featured

*Different outer and inner colors available upon request but MOQ's apply.
† Custom pole length and base mounting options available upon request but MOQ's apply.

Technical Specifications

Screen Diagonal	21.5"	23"	27"
Orientation	Landscape	Portrait	Landscape
Resolution	FHD 1920 x 1080	FHD 1920 x 1080	FHD 1920 x 1080
White Luminance	250 cd/m2	250 cd/m2	250 cd/m2
Contrast Ratio	3000:1	1000:1	1000:1
Operating Temperature	0 ÷ 50 °C	0 ÷ 50 °C	0 ÷ 50 °C
Viewing Angle	89° all sides	89° all sides	89° all sides
Power Requirements	12vDC	12vDC	12vDC
Display Height	Custom†	Custom†	Custom†

Dynamic Panel Systems

SUZOHAPP's Dynamic Panel Systems (DPS) feature the latest innovation in pushbuttons - all the adaptability of touchscreens with the tactile satisfaction of mechanical pushbuttons. We remove the limits of standard LCD pushbuttons in both shape and content, utilizing a single LCD with a unique fiber optic conduit to elevate the image to the surface of the injection molded plastic lens cap. Easily program the entire deck at once with dynamic and configurable content allowing for unprecedented interaction between games and buttons as well as ease of transition between content.

Self-labeling buttons without the complexity or cost

Touchscreen flexibility, with familiar tactile feel

Optional illuminated RGB bezel

Confidence and speed of a physical button

Excellent visibility without glare or distortion

Interfaces: VGA, DVI-D or LVDS

Button interface is available in RS232 or USB

DisplayPort and HDMI are available upon request

Advantages

- ✔ Incredibly flexible – the display panel and buttons can be virtually any size to fit your cabinet and the buttons can be manufactured in any shape
- ✔ Innovative use of precision image transfer fiber optics

- ✔ Traditional tactile pushbutton feel
- ✔ Display graphics, text, animations, video, and even highlight error states with moving color
- ✔ Add versatility and intrigue to games to attract attention

LCD Pushbuttons

The LCD Button unit is an innovative addition to the SUZOHAPP range for gaming devices, giving the game designer the additional tools to enhance the content and player of new gaming machine concepts.

LCD is integrated into the button and moves with lens cap

Light ring comes in a range of colors

Option to customize LCD decal surround (black standard)

24 frames per second animation

Full color 128 x 128 pixels

USB interface, controller board controls up to 16 buttons

Chrome-Luminescent Pushbuttons

Polished chrome-plated button bezel with translucent color washer molded in bezel to provide edge luminescent effect. Available in several color combinations of button & luminescent effect. Additional customization also available.

Large Square   Large Rectangular

Large Round   Small Square

Small Rectangular   Small Round

Locking nut has special design to allow it to fit over "Snap-Tab" feature with microswitch installed

Ease & flexibility of mounting to metal control panels using either the "Snap-Tab" or traditional locking nut

Switch pre-assembled on button for reduced assembly time into control panel

Subminiature microswitch provides additional clearance room under control panel

Grounded for ESD protection

Polycarbonate lens for optical clarity and durability

Switch snaps on bezel of button eliminating the need to have separate lamp holder

STC Pushbuttons

STC Pushbuttons with Subminiature MIcroswitch designed to retrofit all existing VLT/Poker buttons which use a 22 mm square mounting hole. Available in 6 different colors: red, orange, yellow, green, blue or white.

Small Square   Medium Rectangular

Rectangular   Large Square

Small Round   Elliptical

Designed to resist spills and sticking, for high reliability and long life, tested for 10 million+ cycles

Standard supplied with spacer bezel for mounting on top or in the panel (low-profile)

Small size, low profile, provides maximum player comfort

Full 0.5 mm thickness on lamp terminals holds lamp or LED connectors securely

For use with 5 mm wedge base lamps or LEDs (not included)

Standard fitted with Cherry DB5 style microswitch with 2.8 mm terminals for easy connection

Jumbo White Pushbuttons with Black Trim. RGB LED, UFO Style

Features

- ✓ Achieves magnificent lighting effects
- ✓ 13 different display modes to control. Enhance user interaction for your machine
- ✓ Top quality with a competitive price
- ✓ Simple installation takes your machine assembly to the next level
- ✓ Available in different colors

LCD Button Decks

15" 1/3 LCD Button Deck

- ✓ 10-point PCAP
- ✓ 170°/160° viewing angle
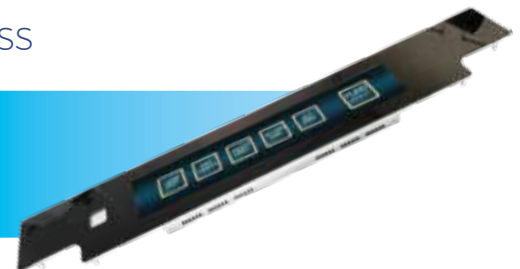- ✓ 2T glass
- ✓ Black masking
- ✓ R5 corners
- ✓ USB

16.4" LCD Button Deck

- ✓ 170°/160° viewing angle
- ✓ 10-point PCAP
- ✓ 2T glass
- ✓ Black masking
- ✓ USB

16.4" LCD Button Deck with customized glass

- ✓ 170°/160° viewing angle
- ✓ 10-point PCAP
- ✓ 2T glass
- ✓ Black masking
- ✓ USB
- ✓ 1 push button hole

UPT Card Readers

All-In-One Solutions For Digital, EMV Contact and Contactless Payments

The UPT Card Readers are certified, 4G Ready, and feature beautiful large full-color touch screens, providing an attractive interface with ultimate payment flexibility for your customers. The UPT Card Readers can even accept and integrate with campus card systems in addition to digital, EMV contact and contactless payment cards. Built-in 4G telemeters report machine health data to management systems.

NEW

**UPT-B Card Reader
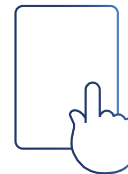With Bill Validator Bezel**

UPT-F Card Reader

Certified

4G Ready

**Large Full-Color
Touch Screens**

VISA   mastercard   express pay   DISCOVER   G Pay   Pay   samsung pay   JCB J/Speedy   UnionPay   MIFARE   Felica

Coin Entries

For application on flat surfaces and with various inclinations

Devices in different colors and sizes. Some models are equipped with lighting to attract more attention.

Standard coin entry for flat surfaces. Available in chrome or gold finish, with coin reject lever

Adjoining coin entry flat surfaces. Available in chrome or gold, with coin reject lever

Coin entry for flat surfaces. Available in black ABS, with coin reject button, in the lengths of 7-20-30 and 45 mm

Top coin entry for flat surfaces. Available in chrome plated steel, with coin reject button

Coin entry for surfaces with a 30° inclination. Available in chrome or gold finish, with coin

Coin entry for surfaces with a 30° inclination. Available in black, chrome or gold finish, with a coin reject button and in lengths of 42.5 – 62.8 mm

Coin entry for surfaces with a 30° inclination. Made of die-cast material with a coin reject button and in lengths of 42.5 – 62.8 mm

Standard coin entry for inclined surfaces. Solid and robust, it is made of chrome plated steel, with coin reject button. It accepts coins up to 3 mm thick

Cast metal coin entry for surfaces with a 15° inclination. Characterized by its sharp lines and catchy design

Coin entry for surfaces with a 30° inclination. It is available in chrome plated steel, with a coin reject button and luminous "COIN" inscription

Comestero

RM5 HD

Extreme reliability, remarkable acceptance speed and high versatility

The RM5 HD coin validator has set new reference standards in coin validation. Through 5 different sensors and 10 recognition parameters, it ensures a high level of recognition and discrimination of valid and counterfeit coins with an unprecedented speed of up to 6 coins per second.
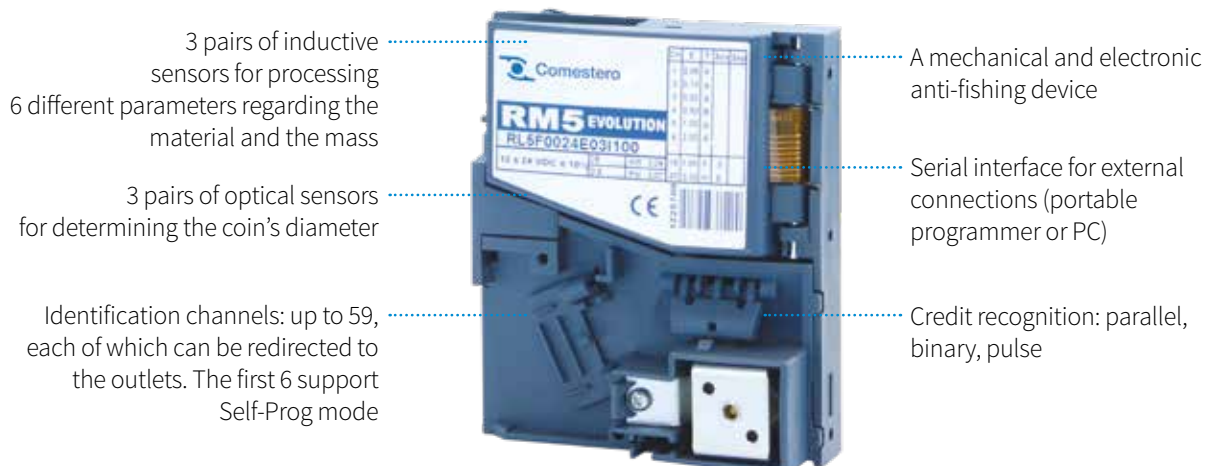
HD high-discrimination system based on 10 different parameters regarding frequency, dimensions and phase

5-sensor identification technology: 3 inductive sensors, 1 optical sensor and 1 magnetic sensor

USB version also available

Advanced electronic and mechanical anti-fraud system: electronic anti-fishing device, coin movement direction detection, 3 mechanical traps, and wire cutting blade

Tropicalised version also available for environments affected by adverse weather conditions

Over **2 million** of Comestero coin mechanisms installed!

RM5 Evolution

The record-breaking coin validator

The RM5 Evolution coin validator is well known for its quality and reliability. Its electronics combines extraordinary selectivity with extreme programming versatility: the Cloning system allows the transfer of the configuration parameters.

3 pairs of inductive sensors for processing 6 different parameters regarding the material and the mass

3 pairs of optical sensors for determining the coin's diameter

Identification channels: up to 59, each of which can be redirected to the outlets. The first 6 support Self-Prog mode

A mechanical and electronic anti-fishing device

Serial interface for external connections (portable programmer or PC)

Credit recognition: parallel, binary, pulse

Coin Sorters

CINCO

Coin sorter with 5 sorting paths plus reject mechanism specifically designed to satisfy the requirements of any type of gaming machine. It can be installed both on machines operating in ccTalk and in parallel, allowing switching modes with ease.

SPS41LCC4

Coin sorter with 4 in-line sorting paths and reject placed over the third sorting outlet.

SPS31LCC3

Coin sorter with 3 in-line sorting paths and reject placed over the third sorting outlet.

SPS31SCC3

Coin sorter with 3 in-line sorting paths and reject placed over the last sorting outlet.

SPS300CC3/VER-B

Coin sorter with 3 in-line sorting paths and a bottom reject mechanism.

SPS300CC3

Coin sorter with 3 in-line sorting ways and front reject.

Cube Hopper

High speed single denomination hopper

The Cube Hopper has an expandable hopper capacity and is made from extremely strong, wear-resistant plastics. With one configuration it covers different coin sizes, and in case of conversion the disc can be replaced in seconds to convert the denomination of the hopper. The hopper is square and easy to mount by means of standard mounting bracket. By using an unique "Sun & Planet" gearbox system, this hopper offers the possibility to contain and count (with two extensions) over 1,200 coins of ø 24 mm. The hopper is protected by an auto-reverse anti-jam system and has an indirect optical readout with a continuous monitored optic sensor control. A low-level detection is integrated in the coin cup. A Dual Hopper version is also available which can payout two different types of coins.

Standard 350 coins capacity (ø24 mm)

High payout speed dispensing: up to 400 coins per minute

Coin cup extensions available (optional) which increase capacity up to average 400 coins per extension (ø24 mm) (maximum 2 extensions up to 25.6 mm)

A low-level detection integrated into connector as standard

Flow Hopper

Innovative through-hole hopper

The innovative electronics and high-resistance plastic materials ensure durability over time. Available in two interfaces – standard parallel and ccTalk serial. Supplied with quick-release plate.

Integrated fall tube for simple dual-hopper cabinet construction

ccTalk version is available in encrypted and non-encrypted modes

Clean design – no external wires run for level sensors

Reliable through-hole coin disk design

Low level sensor and anti-jam feature

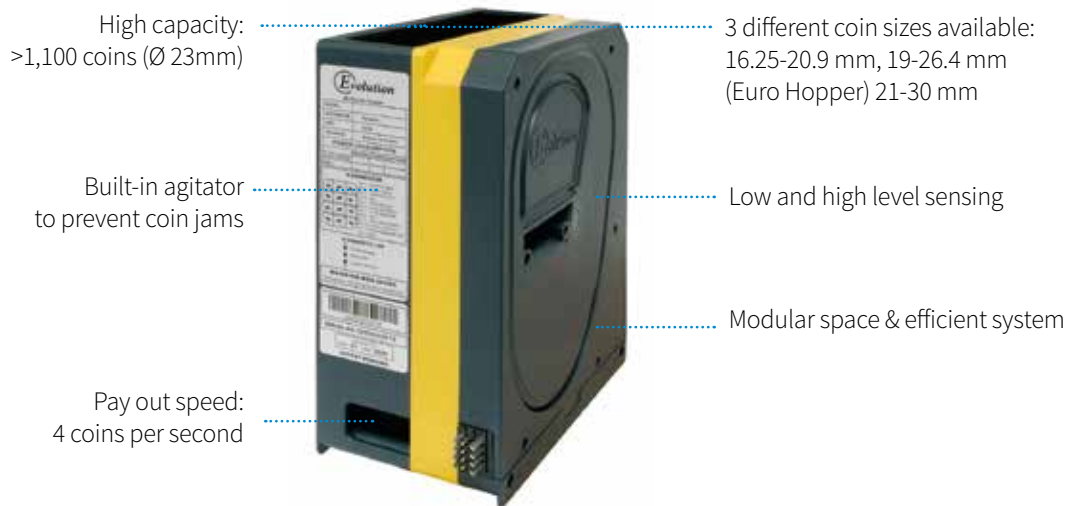### 3 DIFFERENT COIN BOWL SIZES

Medium cup   Intermediate cup   Large cup

Evolution Hopper
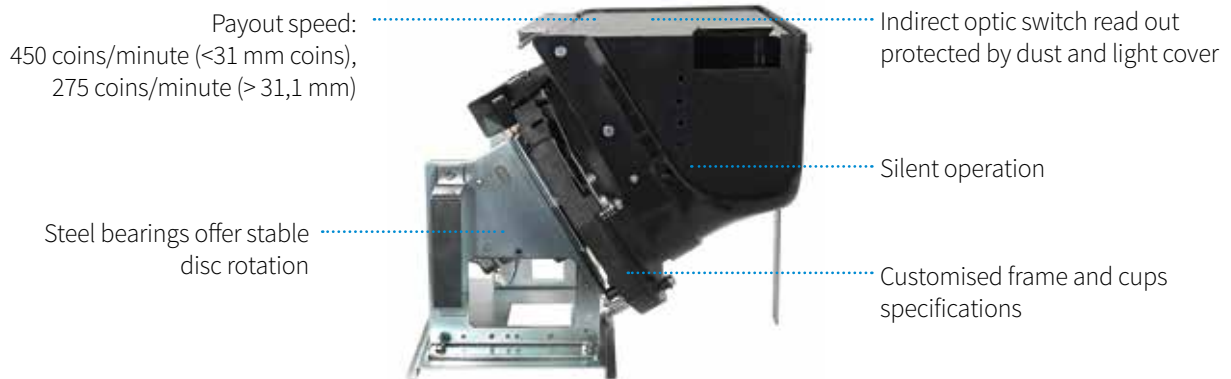## High dispensing speed and reliability come together

Based on a belt drive, Evolution Hopper is excellent in terms of both performance and ease of maintenance. The unique concept provides a single build type hopper that is suitable for 95% of the world's coins and tokens without needing adjustments. A large DC motor in combination with an electronic motor control board yields reduced friction and motor noise. The optic board is easily accessible by removing the electronic control board from outside the hopper.

High capacity:
>1,100 coins (Ø 23mm)

3 different coin sizes available:
16.25-20.9 mm, 19-26.4 mm
(Euro Hopper) 21-30 mm

Built-in agitator
to prevent coin jams

Low and high level sensing

Modular space & efficient system

Pay out speed:
4 coins per second

Excel Hopper
Extremely durable and the most service-friendly casino hopper

Its gearbox system design provides advantages such as maximum torque with minimum power consumption, unique bayonet motor connection for easy motor replacement, and an easily-accessible coin exit. Available with 3 different bowls: standard bowl, wide or narrow bowl and extended bowl.

Payout speed:
450 coins/minute (<31 mm coins),
275 coins/minute (> 31,1 mm)

Indirect optic switch read out
protected by dust and light cover

Silent operation

Steel bearings offer stable
disc rotation

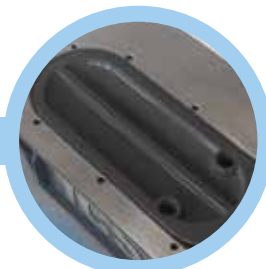Customised frame and cups
specifications

ICS (Intelligent Coin System)
The innovative coin handling device

The ICS is a revolutionary coin handling device able to process up to 8 different size coins without the need of pre-sorting the coins by the user. Due to its compact design and spacious size (up to 1,300 various sized coins), it is ideal for many applications, and supports a minimum coin-in to coin-out height solution. Thanks to its patented design and SUZOHAPP's long-standing experience in coin handling, this device is the world's first currency solution able to be integrated into machines from diverse markets including parking ticket machines, self-checkout stations, money changers, kiosks and vending. ICS's intelligent interface gives you the possibility to directly manage the payout composition or make the calculation itself as to the amount of coins per type to be supplied based on the denomination it holds. It is also able to dispense 4 coins simultaneously.

Compact design sensor

Wide coin diameter
and thickness range

High capacity 1,300
mixed coins*

Simultaneous 4 coin
payout per cycle
(max 4 coins per second)

Up to 8 different
denominations
managed
at the same time

Easy access
for maintenance

Customizable
for country specific
coin mix

Ready to dispense
buffer of coins
per denomination

* value can change according to currency

Compact design:
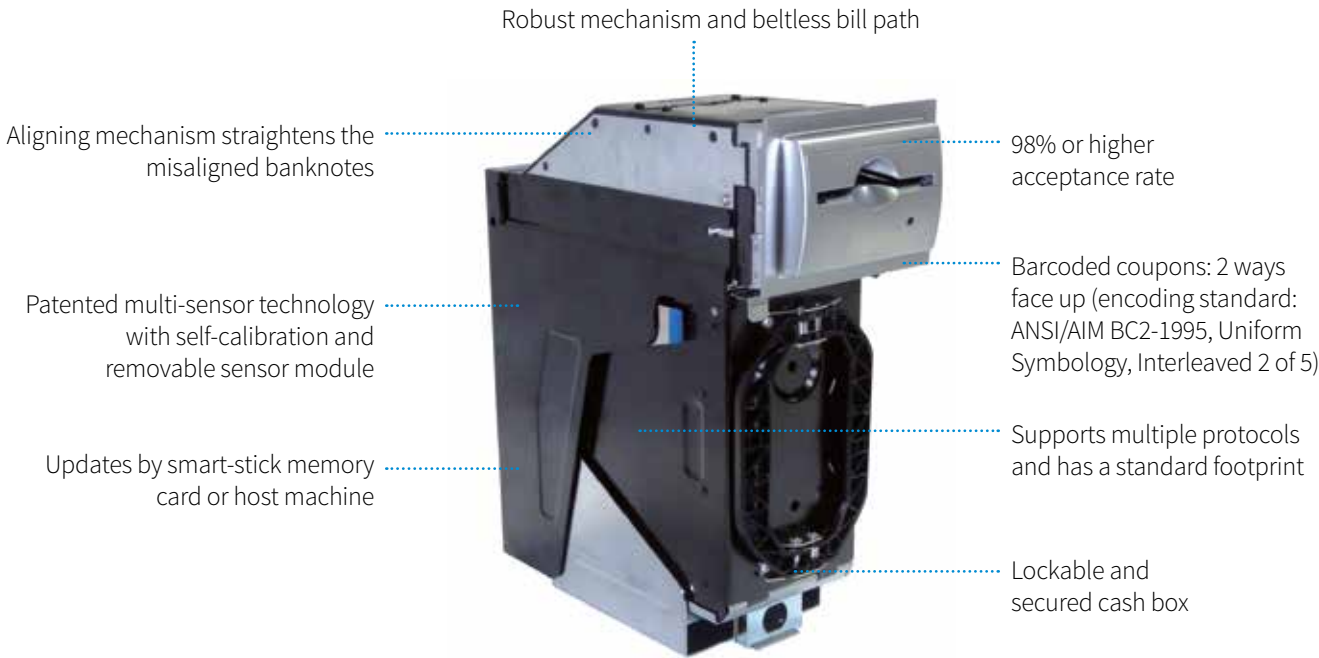one product that works as 8 hoppers + 1 sorter

High payout speed and safety:
it guarantees the correct payout per coins'
denominations

MFL®

Industry's most reliable, secure, modular design

MFL® is the first ever front load banknote validator designed for automated cash transaction applications. MFL® provides modularity and high security due to unique multi-sensor technology. MFL® utilizes a patented alignment mechanism enabling a high acceptance rate for banknotes and barcode vouchers. Due to its robust design and higher reliability, MFL® lowers total cost of ownership, enhances protection against counterfeits and improves machine uptime.

Robust mechanism and beltless bill path

Aligning mechanism straightens the misaligned banknotes

Patented multi-sensor technology with self-calibration and removable sensor module

Updates by smart-stick memory card or host machine

98% or higher acceptance rate

Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)

Supports multiple protocols and has a standard footprint

Lockable and secured cash box

Cash box: 600 or 1,000 banknote capacity that can be secured on housing and supports 2 locks on door

Vandal-proof metal bezel: up-stack or down-stack, IP24 compliant, ideal for outdoor applications

Plastic bezels: running light, digital standard, Bat and Konami

Innovative Technology

NV200 Spectral

The most technically advanced bill validator in its class

The NV200 Spectral is a highly secure banknote validator. State of the art spectral sensors offer complete note image capture (highest spectral coverage) to authenticate the validity of notes. The unit boasts 99%+ first time acceptance of new and street grade notes with a note to note processing time of 2 seconds. The unit contains a number of security features including optical and mechanical anti-strimming technology that delivers outstanding fraud protection. The NV200 Spectral's cutting-edge note centring mechanism together with 4-way barcode acceptance bring the user exceptional note handling and increased ticket acceptance rates.

NEW

100% note image
capture - 4.8 million datapoints

2 second note to note processing

99%+ first time acceptance
of new & street grade notes

Stained note detection

Modular design - recycler
or ticket printer available

Spectral Payout

Unrivalled mixed denomination recycler

The Spectral Payout boasts superior mixed denomination note recycling and the most technically advanced note validation technology. An 80 note 'true' mixed denomination recycler the Spectral Payout can store all denominations from a given currency, eliminating coin starvation & reducing the coin float level required to keep machines operational. Auto-centering technology straightens notes before reading and all notes in the Spectral Payout can be transferred to the cashbox for easy collection.

NEW

Superior mixed denomination
banknote recycler

Eliminates coin starvation

100% note image capture - highest
spectral coverage

Reduce operational collection costs

Innovative Technology

NV9 Spectral

The NV9 Spectral is a highly secure and technologically advanced banknote validator, offering casino level security at a mid-range price. State of the art spectral sensors provide high resolution imaging, scanning 1.28 million data points to authenticate the validity of notes. This versatile banknote validator can be mounted horizontally or vertically, with cashbox and bezel options to suit all applications and a micro SD card for data logging. A note float module can be added to provide note recycling capability.

NEW

Full note high resolution imaging - 1.28 million data points

Faster note to note processing

Optical and mechanical anti-strimming technology

Modular design – recycler or ticket printer available

Various cashbox and bezel options

Easy maintenance, free firmware updates

NV22 Spectral

The NV22S is a market leading, compact mixed note recycler. Combining an NV9 Spectral banknote validator and 'Multi Note Float' payout unit the NV22S can store and recycle up to 40 mixed notes. The NV22S maximises cash efficiency and reduces coin starvation, significantly reducing operational costs. The NV22S comes with a standard 300 note capacity cashbox and uses eSSP (encrypted Smiley Secure Protocol) or ccTalk. The NV22S leaves the factory pre-set to at least one currency so is ready for immediate installation.

Mixed denomination compact note recycler

Significantly reduces operational costs

Maximises operational efficiency and up-time

Full note high resolution imaging

NEW

Innovative Technology

NV10 USB+

The NV10 USB+ is a compact, stackerless banknote validator suitable for most applications. Accepting over 100 different world currencies the NV10 USB+ is a truly global product. With a field-proven validator, the unit supports industry-standard protocols and is simple to integrate and maintain.
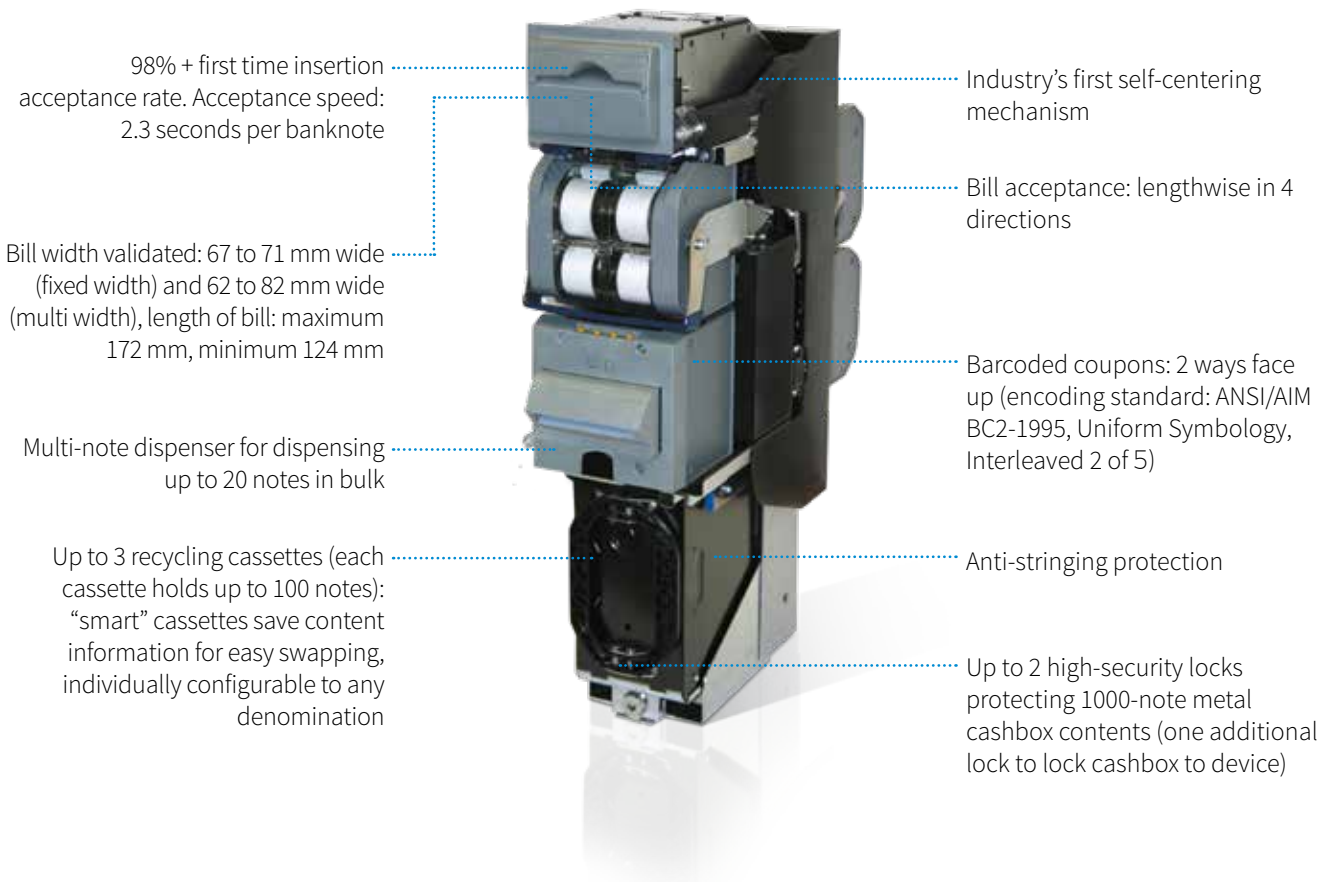
Enhanced sensing technology

Proven field reliability

Compact stackerless design

One product supports global applications

Simple integration

Easy maintenance, free firmware updates

Over 100 different world currencies accepted

ICU

The ICU quickly and accurately determines customers suitability to access age-restricted goods/services. ICU from Innovative Technology Ltd. is a complete hardware and software solution, employing machine learning, to estimate age. In the first investigation, the ICU was placed in two real world settings to test the accuracy when automatically detecting under 18s. The accuracy from the ICU device was shown to be 96%. The device was also compared to the average human ability in quantifying age. It was shown that the device significantly outperformed the average human in estimating a number of age ranges.

NEW

96% success in identifying under 18s

Complete process takes less than 3 seconds

Advanced Spoof detection

No third party fees or ongoing costs

Bill-to-Bill 300™

Advanced sensors technology for Gaming applications

Bill-to-Bill 300™ is the multi-width front load bill recycler with high acceptance rates and superior counterfeit detection due to its patented technology. It is characterized by an advanced sensors technology that improves authentic bill recognition and protects against counterfeits. The validated bills are distributed between three recycling cassettes and one lockable/removable drop cassette. A maximum of 3 denominations may be directed to the recycling cassettes, with the remainder directed to the drop cassette.

98% + first time insertion acceptance rate. Acceptance speed: 2.3 seconds per banknote

Bill width validated: 67 to 71 mm wide (fixed width) and 62 to 82 mm wide (multi width), length of bill: maximum 172 mm, minimum 124 mm

Multi-note dispenser for dispensing up to 20 notes in bulk

Up to 3 recycling cassettes (each cassette holds up to 100 notes): "smart" cassettes save content information for easy swapping, individually configurable to any denomination

Industry's first self-centering mechanism

Bill acceptance: lengthwise in 4 directions

Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)

Anti-stringing protection

Up to 2 high-security locks protecting 1000-note metal cashbox contents (one additional lock to lock cashbox to device)

High acceptance rates

Multi-note dispenser

Lockable and removable drop cassette

CUSTOM®

NEW

Kiosk / Self-Service Printers

MODUS 3
Small footprint kiosk printer

Ultra compact thermal printer to meet the needs of slim-line kiosks without sacrificing features and functionality. MODUS 3 combines all the features of a self-service printer in a compact package (116Lx50Dx62H).

TG02H
Extremely compact and versatile ticket printer

Designed for easy installation and panel mounting, the TG02H is an extremely compact and versatile ticket printer and includes a patented anti-jamming system.

TG1260HIII
60mm ticket / receipt printer

60mm receipt and ticket printer with a metal frame and paper mouth with blocking system to prevent insertion of items. Available in cutter and tear-off versions, 24V version (TG2460), and with illuminated plastic bezel.

TG2480HIII
80mm ticket / receipt printer

80mm receipt and ticket printer with a metal frame, static presenter, and an exclusive patented anti-jamming system.

VKP80III
80mm ticket / receipt printer

The worldwide best seller in the kiosk industry! The most compact 80mm ticket and receipt printer with fast printing and low TCO (Total Cost of Ownership). Available with shutter for outdoor use to prevent introduction of objects.

Lottery & Sports Betting

KUBE II LOTTERY
Printer for lottery, gaming and betting

KUBE II LOTTERY is a high-performance thermal printer suitable for applications in the lottery and betting sector. It features high-quality printing combined with sturdiness and reliability, along with stacking capabilities.

KUBE II SCANNER
Printer for lottery, gaming and betting

KUBE II SCANNER is the combination of a high-performance scanner for cards and betting slips and a high-speed thermal printer with stacker unit. Featuring embedded OMR and barcode reading capabilities for coupons and betting slips and a ticket void feature. One product for a complete solution!

K3 LOTTERY
Printer for lottery, gaming and betting

K3 LOTTERY is the new Custom printing solution designed for the lottery, gaming and betting sectors, with an 82.5mm paper width and 203mm roll diameter to ensure exceptional functionality. Motorized stacker, up to 100 tickets with patented anti-jamming and auto-recovery system.

SILK
Fast and compact PC POS with an innovative and refined design

SILK, a fast and compact ANDROID PC POS for lottery and betting applications. Available with a 13.3" or 15.6" flat PCAP touch display, and an optional secondary customer display.

NANOPTIX

ORIZON™
NEXTGEN

Orizon™ NextGen™
Smarter. Faster. Better.

The ultimate kiosk printer, combining technology (PC-based infrastructure), flexibility (adjustable spindle arm) and outstanding reliability (200km print head life).

NEW

PAYCHECK®
TERMINAL™

PayCheck® Terminal™
Low-cost hardware for interactive kiosks.

PayCheck Terminal XL is the world's first kiosk terminal powered by a TITO printer. Taking advantage of the power and uniqueness of the PayCheck NextGen printer, we created a Linux-based terminal for your gaming, lottery and retail applications.

PAYCHECK®
NEXTGEN™

PayCheck® NextGen™
The 'ONE' printer you need!

Greater value, more reliable and more capable than any of its competitors on the market today, PayCheck NextGen is the 'One' printer venues need to ensure reliability, functionality and connectivity.

PAYCHECK® 4™

PayCheck® 4™
Fastest. Smartest. Toughest.

Finally, there's a printer that's as fast as the gaming action on your casino floor. The PayCheck 4 Thermal Printer from Nanoptix© can print a ticket in just 0.6 seconds!

NANOPTIX

PayCheck® Desktop 2™
The newest member of the PayCheck® series family

Powered with PayCheck NextGen technology, this desktop model can enhance your cage environment by providing your customers quick TITO tickets, promotional coupons and/or streamlined tax forms, to name a few, while keeping your host engaged one-on-one with your patrons.

HSVL Advanced™
Better. Smarter. Faster.

The HSVL Advanced printer, provides manufacturers ultimate flexibility and outstanding reliability. By using innovatively designed movable spindle arms the HSVL Advanced can adapt to any kiosk design.

EZ-Tear™
Compact. Flexible. Modular.

The EZ-Tear printer provides manufacturers flexibility while remaining compact and reliable. Built with modularity in mind, the EZ-Tear printer will fit many types of kiosks and with its clamshell design, provide easy access for paper loading.

"Spill-Proof" Thermal Printer
Fast. Quiet. Efficient.

Affordable and easy to use. Best of all, its patent-pending spill-proof design means never having to worry about OOOPS again. IEC60529, IPX3 spillage approved.

Slot Machines Tickets

Superior quality slot machine tickets, from blank stock tickets to customized tickets with 4-way repeat backside print. Tickets are approved for use in International Game Technology's (IGT) EZ-Pay™ and Sierra Design Group's (SDG) voucher systems.

✓ Unlimited color possibilities and 4-color printing processes provide photo realistic quality and color reproduction

✓ Digital proofing systems guarantees the best match to press

✓ Reliable and flexible security options protect against fraud

✓ On-the-spot authenticity verification with thermochromic, blacklight visible UV and coin-reactive inks

Customized Tickets

Possibility to have 4 different designs on the backside of the ticket, this is a so-called 4-way repeat print, where you can choose any 4 designs which will be repeated every 4 tickets.
This is especially interesting to promote special offers from restaurants or specific games.

Redemption Tickets and Dispensers

Deltronic Ticket Dispenser

- "Snap out" one ticket dispenser – replace it with another in seconds
- No tools necessary
- Foolproof braking system is easily adjustable
- Validation "Diamond" mark identifies tickets
- Available as Continuous or Pulse type
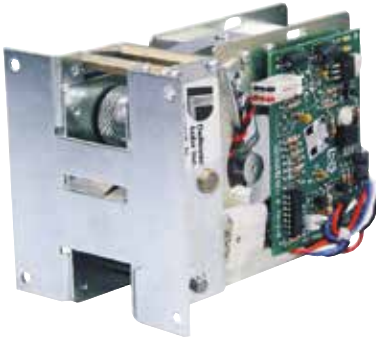
ENTD-2000 Ticket Dispenser

- Virtually eliminate ticket jams
- Requires very little maintenance
- One of the most reliable and compatible ticket dispensers on the market
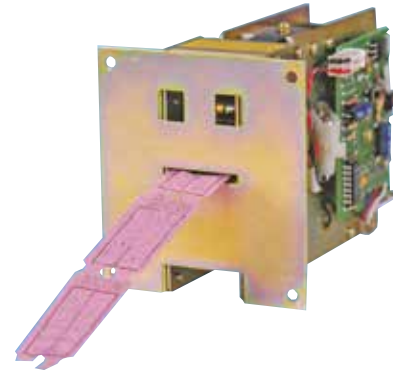
Tickets can be personalized to your requirements

Door Switches

Single and Double Pole

- Choice of push and push-pull interlock switches
- Snap-in panel mounting
- Long-life coil spring, snap-action mechanism
- Temperature rating -40º to +85º
- Flammability rating UL94V-0
- Various approvals available
- Detailed datasheets available

Cooling Fans

DC Cooling Fans

- Compact cooling fans
- Wire connection
- 12 or 24 Vdc
- Speed up to 5800 RPM

AC Cooling Fans

- Protects electronics from overheating
- Easy mounting with 4 bolts
- Terminal or wire connector
- Speed up to 3000 RPM

Finger Guards for Cooling Fans

- Protects electronics from over heating
- Easy mounting with 4 bolts

Stationary Scanners

Newland scanners are supported by EasySet – a software tool for configuration, cloning setup for fast deployments, firmware upgrades, imaging functions, and includes a barcode generator.

FM3080
Impressive short-range scanning capabilities combined with customization

Prepared for integration in your kiosk or counter, the FM3080 Hind combines performance and customization. The large scan window is optimized for short range reading of barcodes from a mobile phone or paper, even placed directly on the glass. With 4 color options available, the FM3080 Hind can be easily programmed to indicate a successful read or to match your brand.

NEW

FM100
Reading performance reaches and exceeds global standards, advanced CCD scan engine

Designed for OEM applications, this high-performance fixed scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, (reverse) vending machines and many more. CCD technology means no laser, mirror or moving parts for increased durability.

FM430 Barracuda
Read barcodes from short or long range with this compact scanner for when less space is available

The new FM430 Barracuda is Newland's most aggressive and efficient fixed mount scanner to date, making it a strong all-around solution. It's equipped with a megapixel camera that scans virtually any 1D and 2D barcode with impressive speed and ease. On top of that, its programming, IR sensor and light sensor help keep users moving, even in low light conditions. The combination of these features makes the device a leader in its class.

FM3051 Grouper II
Plug-and-play simplicity enhancing your experience right from the start

With its snappy barcode reading of virtually any 1D or 2D barcode, the FM3051 Grouper II is the perfect response to the trend of barcodes moving from paper to the screen. Built to read from contemporary LCD widescreen devices, the fixed scanner is ideal for mobile phone applications like loyalty programs and ticket validation. Whether it's an employee scanning a product label or a customer scanning a voucher on their mobile phone, barcode scanning is always easy and quick. The form factor and small footprint of the FM3051 Grouper II makes it easy to integrate into a kiosk. Also available in flush mount: the FM3056 Grouper II.

FM3056 Grouper II
Plug-and-play simplicity enhancing your experience right from the start

The FM3056 Grouper II is a flush mount scanner with a minimal footprint. With a height of only 53mm, the device is small enough to fit into most kiosks, while the flush mount ensures that the device suits any business environment. Built to read from contemporary LCD widescreen devices, the fixed scanner is ideal for mobile phone applications like loyalty programs and ticket validation. Whether it's an employee scanning a product label or a customer scanning a voucher on their mobile phone, barcode scanning is always quick and easy. The FM3056 Grouper II is the flush mount equivalent of the FM3051 Grouper II.

FR27
Latest technology, compact design, CPU-based scanner

Armed with Newland's latest-generation UIMG® technology, the FR27 can decode poor quality soiled or wrinkled barcodes with ease, even on a screen covered with protective film. Its exceptional motion tolerance and large FOV enhance the user experience. Fits on a narrow desk or shelf when space is at a premium.

NEW

Newland
SCANNING MADE SIMPLE

FR21 Neon
Ideal desktop scanner for mobile payment, customer loyalty and ticket verification
The FR21 Neon was built to create an optimal customer experience at the POS. It scans quickly and easily, even for the most inexperienced user, making it an ideal solution for applications like mobile payment, customer loyalty, cashback, and ticket verification. "Scan here" circle customizable with any sticker.

| 1D | 2D | CMOS | IP 50 | 1.2M DROP | USB | RS232 |

OEM Scan Engines

EM2037-V4
Delivers speedy and accurate scanning performance
No matter what type of barcode is presented, the megapixel camera allows users to scan 1D and 2D barcodes, including very small ones, with impressive speed and ease. In addition to excellent scanning of high-density barcodes, the EM2037-V4 also provides the added value of decoding postal barcodes.

| 1D | 2D | CMOS mega pixel | USB | TTL-232 |

EM3080-W
Small, lightweight and easy for integration
The EM3080-W is Newland's smallest OEM scan engine. Including easy integration with a minimal footprint, the EM3080-W is the perfect solution for all-around scanning capabilities.

| 1D | 2D | CMOS | | TTL-232 | USB |

EM2080
Snappy on-screen barcode capture
The CPU-powered EM20-80 is incredibly reader-friendly on smartphone and tablet displays, and features excellent near-field reading, a wide viewing angle and snappy reading.

| 1D | 2D | CMOS | USB | TTL-232 |

EM3396
Integratable into various OEM devices including kiosks, ticket validators, and PDA's
The EM3396 OEM scan engine with a bright laser aimer, offers stunning performance on 1D and 2D barcodes. It can be integrated into various OEM devices including kiosks, ticket validators and PDA's. Due to its light weight of only 4g, solid-state build and low power consumption, the engine is ideal for portable scanning devices.

| 1D | 2D | CMOS | USB | TTL-232 |

EM50S-10
Superior scanning performance
The EMS0S-10 / EMS0S-20 is a CPU-based scan engine that delivers stunning performance. Armed with Newland's sixth-generation of UIMG technology, decoding damaged or poor-quality barcodes is no match for this scan engine.

| 1D | 2D | CMOS | IR | IP 65 | USB | RS232 |

EM1300
Compact and highly integrated design
Designed for OEM applications, this high-performance CCD scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, PDA's and many more.

| 1D | CCD | TTL-232 |

Pay Connect™

NEW

Accelerate your kiosk development

The new solution – PayConnect™, is the perfect platform for systems builders and kiosk manufacturers. PayConnect allows the builder/manufacturer to rapidly develop and integrate their solutions with a broad range of cash and digital payment components. Based on the industry leading CashComplete™ On-Device software engine, this all-in-one solution provides the hardware and software required to quickly build and deploy self service solutions that incorporate all forms of payment, including notes, coins, debit, credit, digital wallets and various closed cashless systems.

Easy Payments Integration

Rapid Development

Minimize Time to Market

Complete cash visibility

Enterprise Manageability

Simplified Integrations

Easy monitoring

Smart connectivity for outstanding performance and control

The value of PayConnect doesn't end once the system is built. With full integration to CashComplete Connect, you get the power of enterprise device, user monitoring and management, as well as payment and utilization reporting and analytics. All through an easy to use, cloud-based, web interface that is fully mobile capable.

Be part of the payments ecosystem

Extend the reach of your solution by incorporating it with other CashComplete On-Device based systems. By combining PayConnect based self-service solutions with enterprise cash recyclers, high speed smart safes and point-of-sale platforms, your self-service solution becomes part of the CashComplete Connect payments ecosystem.

Supported peripherals:

- Monitors and touch screens
- Cashless readers open and closed loop
- Banknote readers and recyclers
- Coin validators and coin changers
- Coin hoppers
- Card/box dispensers

- Printers
- Barcode scanners
- Proximity sensors
- Speakers
- UPS
- Generic I/O interface boards to activate power services (relay based)

Charge'N Play

Add USB Charging capabilities to your machines

Charge'N Play is the innovative dual USB charger – easy to install and simple to use, and a magnet for customers. Charges up to 2 electronical devices through the USB port. Charge'N Play can be installed in cabinets or integrated in the wall.

- 2 USB ports
- Top or side mount module
- Optional installation kit
- Designed to mount easily to wood or metal cabinet
- Optional 3-way micro-USB cable (1m length) lighting connector
- Compatible with popular mobile devices

Also available as kit, with cable, wobbler and power supply
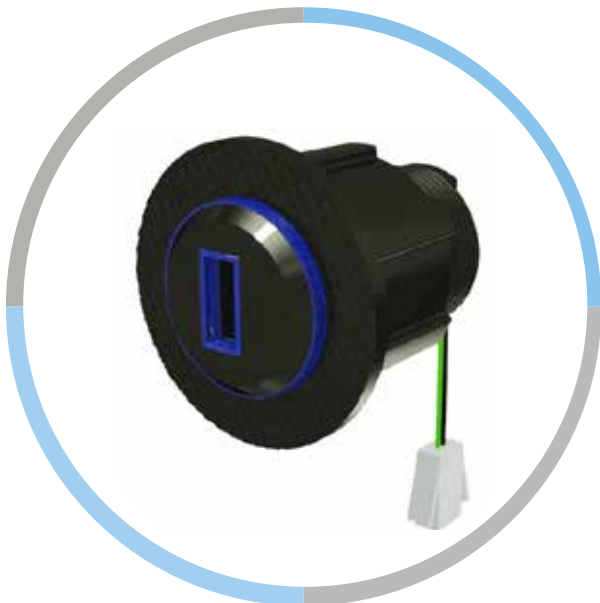
Built-in Kit

Built-up Kit

Speakers

A wide range of speakers with terminals perfect for use anywhere a small footprint speaker is needed. Available in various sizes and voltages.

AudioPRO Full range speaker
50 x 90 mm 8 Ohm 2W

AudioPRO Oval speaker
41 x 71 mm 4 Ohm 2W

AudioPRO Oval Speaker
50.3 x 90.3 mm 8 Ohm 4W

AudioPRO 3.3" Full range speaker
8 Ohm 10W

AudioPRO 2" Full range speaker
8 Ohm 5W

PowerPro Power Supplies
200W, 400W and 500W

SUZOHAPP has the power supplies you need, now featuring label and connector artwork on our website, to ensure you get the right power supplies every time.

80-0506-00

80-0002-10R

80-0566-00

Joysticks

- Supplied with microswitches with 4.8 mm or 6.3 mm
- Realistic spring action
- Available with 4 or 8 ways
- Ergonomic handle for comfortable grip

Trackballs

- Exceptional performance
- Custom colors available
- No external power supply needed
- Ease of use

Driving Controls

Sturdy 2 - Position Shifter
- Microswitch operation
- Standard mounting

Steering Wheel
- Ball bearing construction
- Potentiometer control
- Standard mounting

LED Light Strips

Controller & wireless remote sold separately

Attract more attention and increase your earnings!

- Easily installs in or around your machines tention and increase earnings
- Great for amusement parks and games, casinos, slot machines, arcades, family entertainment centers, theaters, backlighting, decorative lighting, etc.
- Ideal way to increase earnings on your cranes and pushers
- Very thin continuous length flexible LED light strips

- 5m rolls can be separated every 3 LEDs and reconnected again
- Super bright high-quality SMD LEDs per reel with 120° wide angle illumination
- 3M adhesive tape on back for easy installation
- Operates on +12vDC power supply (150-0072)
- Solid state, high shock or vibration resistant

- LEDs controlled by controller and wireless remote (sold separately)
- Each controller can run 65.62 feet (20 meters) of LED strips
- Long life: 50,000 hours
- Less power consumption than traditional lights
- No RF interference
- Sold in reels of 5m
- +12VDC; 20W

Adhesive LED Strip Lighting

Lamps
Light PRO LED Tubes
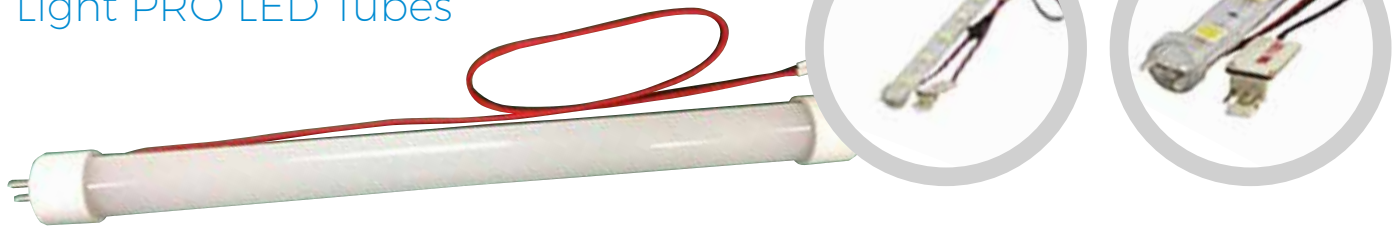
Counters

SEC Starpoint Electronic Counter

Enhanced security is a major feature of the SEC, a unique fingerprint code allows the machine to detect any meter changes and to prevent operation if the meter is not present. By utilizing the latest electronic technology, the SEC avoids the reliability problems and service call-outs which can be experienced with mechanical counting devices.

- Replaces up to 31 mechanical meters with individual counters stored in EEPROM
- 7-digit LCD for displaying contents of counters
- Text messages and counter selection controlled by host machine
- Clocks serial interface designed to work on existing meter ports
- Improved security through:
  - Secure software protocol
  - Tamperproof counters with unique fingerprint code

Proximity / Motion Sensor

- Detects changes in position within a zone up to 5 meters
- Easy to use – sensor simply changes its output from 0 to 1
- SUZOHAPP part number 2051400000184A

| Detection distance	5m
Field of view	22°x38°
Detection zone	24 beams
	The temperature difference between the target and the surroundings must be higher than 4°C
	Movement speed: Digital output 0.8 to 1.2m/s Analog output 0.5 to 1.5m/s
	Target concept: Human body with an approx. size of 700x250mm
	Target moving direction: Crossing the detection beam

Compact RGB Handle Mechanism

- ✔ Ultra low-profile design allows for external mounting on cabinet and provides increased space inside of the cabinet

- ✔ Easily to remove for improved serviceability

- ✔ Ruggedized die cast design to provide long-term performance

- ✔ RGB attract mode on handle mechanism cover to attract additional attention

- ✔ As handle is pulled LEDs light up with each of the six clicks of the handle movement. All LEDs light up when handle is fully pulled

- ✔ Pre-programmed with unique flashing patterns and color combinations

- ✔ RGB illuminated mechanism ball with 2 multi-color LED's that flash, glow or flash light patterns to further trigger your interest in your handle machines

- ✔ 45° rotation

Custom Reel Mechanisms

Custom engineered reel mechanisms to fit the needs of our customers

E-PRL™
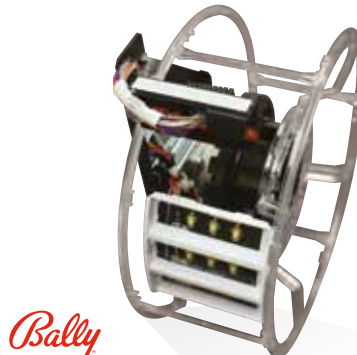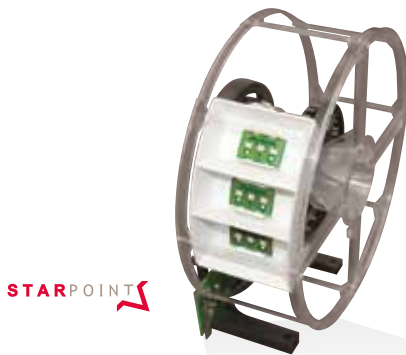
The Ultimate Electronic Reprogrammable Lock
Secure, remote access control with operational visibility

Identifies each user, checks permissions, records each operation

Patented high-tech stainless-steel locking system with self-powered key sets

NEW

Features

- Never again change locks when a key is lost, or employee dismissed
- Carry far fewer keys for your fleet or location
- Drop-in replacement for existing locks – self-powered, no wiring
- Remote authorization and traceability with Bluetooth option

- Automatically logs access times and user – no more manual logging
- Authorization reissued daily, or on demand
- Grant temporary access to technicians or others

Design

- Standard cam or cylindrical formats, custom sizes available
- 90°, 132°, 180° rotation limiters, right and left
- P65 for outdoor usage
- AES 128-bit encrypted communication
- Over 10 billion combinations

Bluetooth Connectivity
Fully control your locks from any remote location even from a smart phone or a tablet

Program a Unique-Code for each lock with multiple User Key access, or Multi-Code to pair each lock with multiple key codes for a hierarchical or simple master key system.

E-PRL™

Keys

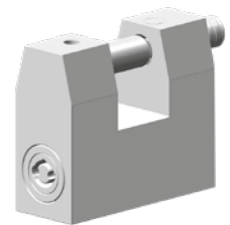| Master Key	User Key	Download/Audit Key	Bluetooth Key
Programs lock pairing with User and Download Keys	Unique-Code or Multi-Code	Retrieve access history stored in locks	Communicates with smartphone or tablet to headquarters

Accessories

Cylinder Adapter   **Handles and Covers**   **Padlock**

Software

- ✓ Retrieve lock history with the Download Key, insert in supplied USB Pod, and display/export the event history
- ✓ Create and check permissions, black and white lists, reprogram keys, set access time limits, monitor and control each operation
- ✓ Communicates from headquarters to iPhone or Android smartphone/tablet apps, and then to users' Bluetooth Keys
- ✓ Runs on a secure Cloud-based platform or your own server

Contact SUZOHAPP for a trial kit compatible with your existing locks!

VENIA Locks & Keys

Venia Security Switchlocks DPST

- ✔ 14 pin system, 10 pins on the flat key side and 2 side pins on each side
- ✔ Brass housing with high quality spindle and bright chrome finish
- ✔ A security collar is included with every Venia lock to prevent any attempts to turn the lock with tools
- ✔ Key made of nickel silver assures longer lifetime and trouble-free operation
- ✔ Only available as key different
- ✔ Connection by 4 solder terminals
- ✔ 2 different switch configurations: pos. 1-3 on/off, pos. 2-4 off/on

Venia Security Camlocks

- ✔ 14 pin system, 10 pins on the flat key side and 2 side pins on each side
- ✔ Brass housing with high quality spindle and bright chrome finish
- ✔ A security collar is included with every Venia lock to prevent any attempts to turn the lock with tools
- ✔ Key made of nickel silver assures longer lifetime and trouble-free operation
- ✔ Camlocks are available in 3 different lengths: 16 mm (5/8"), 22.3 mm (7/8") and 28.6 mm (1-1/8")
- ✔ Standard 2 position 32 mm cam included

Venia Security Switchlocks

- ✔ 14 pin system, 10 pins on the flat keyside and 2 side pins on each side
- ✔ Brass housing with high quality spindle and bright chrome finish
- ✔ A security collar is included with every Venia lock to prevent any attempts to turn the lock with tools
- ✔ Key made of nickel silver assures longer lifetime and trouble-free operation
- ✔ Venia switchlocks are available with and without automatic key return

Venia Keys

- ✔ Venia keys can only be ordered through SUZOHAPP
- ✔ Key made of nickel silver assures longer lifetime and trouble-free operation
- ✔ These keys can be cut to your specific key code

Xlocks & STC Locks

Security Camlocks Key Alike

Xlock

✔ 10 pin operation
✔ Die cast housing with chrome finish
✔ Camlocks available in 3 lengths: 16 mm (5/8"), 22.3 mm (7/8") and 28.6 mm (1-1/8")
✔ Large key provides good grip during operation
✔ Key made of nickel silver material for trouble-free performance
✔ Standard supplied with 32 mm cam with dual hole so the lock can be mounted in any position

Security Switchlocks

Xlock

✔ 10 pin operation
✔ Die cast housing with chrome finish
✔ Length 36.4 mm (1-7/16")
✔ Large key provides good grip during operation
✔ Key made of nickel silver material for trouble-free performance
✔ Switchlocks have 6.3 x 0.8 mm terminals fitted for easy connection
✔ Switchlocks are available with or without automatic key return

STC Round Key Camlocks

STC

High reliable range of camlocks of different sizes to satisfy customer needs.
The locks are available both as key different and key alike.

✔ 7-pin tumbler lock
✔ Housing with chrome finish
✔ Round chrome plated key
✔ Available as key different and key alike
✔ Available in: 16 mm (5/8"), 22.3 mm (7/8") and 28.6 mm (1-1/8")
✔ Cam included

All new key alike series are supplied in lots of 25, 50 or 100 pcs with a total of 5 keys per key code
Re-orders on the same key code are possible with a minimum of 25 locks per key code

ASSA Desmo Locks

Desmo Casino Locks

With many of the world's largest casino groups as a customer the product has become a standard for any casino operator who insist on maximum security combined with maximum operating comfort. The Assa Desmo is a patented lock construction based on direct drive pins (no spring operation) making it particularly suitable for many operations in dirty and hostile environments. False cuts on the pins provide resistance to any currently known method of picking. The Assa Desmo system is the effective way to prevent unauthorized manufacturing, cutting and distribution of key blanks, it also requires the most advanced and precise key cutting equipment in the lock industry.

8-pin lock combined with two strong side bars

Large key made of nickel silver for lasting durability and comfortable operation

Standard 90 degrees operation and key removable in locked position

Various collars available to adjust any mounting depth

Standard supplied with 32 mm cam, other sizes and models available

Key-different locks are supplied with 2 keys per lock

Code

Side bar pin

Side bar springs

Side bar

Locking pins

Cylinder house

Inner cylinder
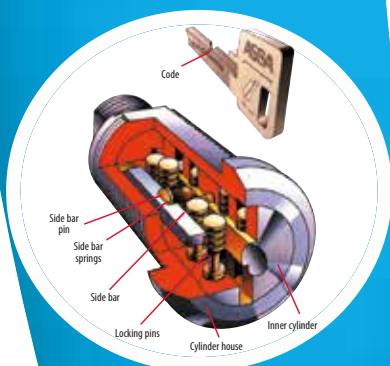
Customizable Cabinets

4 Configurations Available To Suit Every Need

SUZOHAPP cabinets are the perfect start for your next game launch. Simply plug in your game board to our pre-fabricated metal cabinets. Available in four basic configurations: The SoloPro with a single 21.5" LCD touchscreen, the SoloPro XL[32], with a single 32" vertical touchscreen, the DualPro a dual screen cabinet with a 21.5" touchscreen and 21.5" non-touch LCD, and introducing the SoloPro XL[42] with a single 42" vertical touchscreen.

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SUZOHAPP

Boards

Pushbuttons, DPS,
LCD Button Decks

Speakers,
Amplifiers

Cabinets

Cashless

Locks

Power Supplies,
UPS, Line Filters

Cooling Fans

Touchscreen &
Secondary Screen

Printers

Bill
Validators

Coin Entries
and Validators

Hoppers

Barcode
Scanners

Door
Switches

SUZOHAPP