# SUZOHAPP A World of Components & Solutions

A World of



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# About **SUZOHAPP**

SUZOHAPP is a global technology company that provides software and hardware solutions for self-service enablement and cash handling automation. SUZOHAPP operates in the global gaming, amusement, vending, industrial, transportation and retail markets by serving both operators and original equipment manufacturers.

Through continuous innovation, flexibility and a complete product range, SUZOHAPP devotes its global business to exceed the demands of customers.

SUZOHAPP's product lines include cash handling equipment, display solutions, control devices and systems, machine operation components, payment systems and consumables. With over 1,100 global employees in 19 countries serving more than 25,000 customers worldwide, SUZOHAPP services multipule industries globally.

SCAN COIN and COMESTERO are part of the SUZOHAPP Group. Founded in Sweden in 1966, SCAN COIN is one of today's leading suppliers of cash processing equipment, system solutions and services. Founded in Italy in the 70's, COMESTERO is a leading company in payment systems and self-service equipment.





















# **Recycling Cash Solutions**

RCS-100 · RCS-500 · RCS-600

Our Recycling Cash Solutions are powerful cash automators for your front or back office operations.

Instead of spending hours on administration and counting, make this smart solution part of your daily operations and decision making. This ensures a quick return on investment through dramatically improved cash management.

For more information, please visit www.cashcomplete.com

# Cash**Complete**™

### **Advantages**

- Improve Cash Visibility
- Automate Back Office Operations
- Reduce Working Capital
- Decrease Labor Cost
- POS Balancing Automatic reconciliation of daily balances through Point of Sale (POS) reporting
- Financial Control Real time transaction monitoring
- CIT Integration Integrate the solution to CIT management systems for fast order requests and bank deposits
- Maximum Uptime and Service Real-time device and event monitoring to ensure maximum uptime
- ERP Integration Reports daily balances and accounting
- Optimize Cash Provides insights into your cash cycle that can be used for cash order planning to ensure the right level is always on hand







### **Improved Productivity**

Eliminate all daily tasks from counting, managing till content, reconciliation and reporting in-store cash, which allows the staff to be deployed into higher value activities. Our on-site software coupled with our Recycling Cash Soultions together provide full visibility and accurate reporting of cash cycle.



### **Decreased Working Capital**

CashComplete<sup>™</sup> software provides accurate and efficient management of in-store cash holding requirements, allowing you to deposit surplus cash into your bank. Our enterprise software makes it simple to monitor your inventory position in real time across your business.



### **Increase Efficiency**

The Recycling Cash Soultions fully automate your note handling to speed up the process allowing you to spend less time managing your cash. Automated till dispense to increase efficiency at the start and end of shifts, reducing human reporting errors and increasing accountability.



### **Superior Financial and Operational Control**

CashComplete<sup>m</sup> software is the ultimate solution for superior financial and operational control of your cash. It allows access to data by local departments and from remote locations. The CashComplete<sup>m</sup> enterprise software can be used for central monitoring and connects with external store systems for even higher efficiency.

CashComplete™ software provides a common experience across all client locations. Our software solutions are scalable, allowing you to gain full control of your cash management operations.

### **Turn Cash into Real Value**

Our Recycling Cash Soultions are powerful automators for your back office operations. Make this smart solution part of your daily operations and decision making, instead of spending hours on administration and counting. Utilizing our solutions ensure a quick return on investment through dramatically improved cash management.

### **Efficiently Cycle Cash All Through Your Business**

The steady flow of cash into your back office needs to be counted, allocated and secured quickly and accurately. With our Recycling Cash Soultions you take control of your cash through an efficient cash cycle in all areas of your business, from internal cash handling to CIT operations. This ensures both time and cost savings, as well as an improved customer service.

## **Technical Specifications**

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	RCS-100	RCS-500	RCS-600 (US)
Deposit	1 Note/Second single note feed	Notes in mixed bundle (200 notes), 8 notes per second	Coins mixed, up to 12 coins per second
Dispense	1 Note/Second	8 notes per second in bundle of 100 notes	40 coins per second into till
Storage Recycling	up to 2,000 Notes	2,500-10,000 notes, 1-5 cassettes	40,000 coins, 8 coin hoppers (4x2)
Storage Pickup / Overflow	6 x 110 Notes	1-5 cassettes for pickup 2,500-10,000 notes, stacked in cassette	8,650 coins
Total Capacity	up to 2,000 notes	up to 12,500 notes	up to 48,650 coins
Size (Width x Depth x Height)	565.15 x 431.8 x 819.15 mm (22.25" x 17" x 32.25")	600 x 800 x 1200 mm (23.6" x 31.4" x 50.91")	673 x 752 x 1293 mm (26.48" x 29.62" x 50.91")
Weight Empty	105.23 kg (232 lbs.)	700 kg (1545 lbs.)	337 kg (743 lbs.)

# **Smart Deposit Solutions**

**SDS-25 · SDS-30** 

The CashComplete™ Smart Deposit Solutions are the ideal way of upgrading your cash handling process to improve accuracy, cash visibility and shrinkage protection. Monitor your cash levels, validate bills to prevent acceptance of counterfeits, simplify the verification process to securely store notes protecting you and your employees from theft.

For more information, please visit www.cashcomplete.com

# Cash**Complete**™

### **Advantages**

- · Compactly designed to fit any retail location
- · Streamline and automate cash handling
- · Avoid counting inaccuracy and counterfeit notes
- Reduce loss from theft and shrinkage
- Improve employee security

## **Technical Specifications**

Deposit	4-way read self-centering, single note feeder
Deposit Speed	1 note / second
Storage Capacity	up to 1,000 Notes
Dimension (L $\times$ D $\times$ H)	150 x 298 x 448 mm (5.9" x 11.8" x 17.6")
Net Weight	19.5 kg (43 lbs.)
Power Supply	120 VAC 60 Hz
Regulatory	UL Certified and RoHS Compliant

Approximate speeds

# **Options and accessories**

Cash Box Capacity	600 or 1,000 Notes
Safe Mounting	Under-counter/Floor
POS Printer	Kube II, Thermal, High Capacity









SDS-25 Small Footprint

### **Upgrade Today**

CashComplete™ Smart Deposit Solutions improves your business with cash management intelligence, allowing you to spend less time handling cash and more time managing your business.

The CashComplete™ software provides you the opportunity to receive daily credit from local branches and delay CIT pickups. Our Smart Deposit Solutions are an affordable way to extend intelligent cash management benefits to your business' point of sale operation.

### Versatile solution

These solutions are ideal for any industries where cash volume, security, and handling takes up a significant amount of staff time.

### **Small Footprint**

The SDS is one of the smallest solutions on the market, allowing it to be installed directly at the point of sale for instant access. Less than 18" tall and weighing only 43 lbs, the SDS can be mounted directly under your counter top or directly to the floor to be immediately accessible at the point of sale.

# The SDS-30 comes equipped with a keypad for on-device functionality





### Ease of use

The 4-way read bill validator will accurately read notes inserted in any direction, simplifying your depositing process.

- Secure cash at time of payment, empowering staff to manage cash, with full visibility and staff accountability
- Work smarter, not harder with access to dynamic reporting, realtime inventory level and full user activity log at each store or from a remote location
- Automatically maintain all deposit transactions, making it easy to post and balance with POS systems and prepare bank deposits

### **Graphical user interface**

#### Cashier's Menu



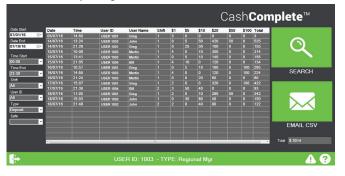
#### **Cashier Deposit Operations**



#### Safe Inventory Details



#### On Demand Reporting



# **Smart POS Solutions**

**SPS-300 · CRS 600** 

The SPS-300 is a powerful automator for your retail POS. Used as a till replacement, the Smart POS Solution validates with a 4-way reader, increasing the integrity of your capital while increasing the safety of your employees. Make this smart solution part of your daily operations, instead of spending hours on administration and counting. This ensures a quick return on investment through dramatically improved cash management.

The SPS is the ideal solution for industries where cash volume, security, and handling takes up a significant amount of staff time whether you operate a convenience store, grocery store, or other retail business. By integrating the SPS-300 into your front-office POS system, you immediately reduce problems with handling cash. Increase productivity, reduce your working capital and save time by recycling your working capital instead of requesting frequent CIT pickups and deliveries.

For more information, please visit www.cashcomplete.com

# Cash**Complete**™

### **Advantages**

- Improve Cash Flow
- · Decrease Shrinkage
- Reduce Working Capital
- Lower Labor Costs





SPS-300 Paired with the CRS-600



### **O**Decrease Shrinkage

Integrate the CashComplete™ SPS-300 into your business to streamline your cash handling and expedite the processing of note at checkout. Prevent errors and protect your business from shrinkage with full control at the point of sale.



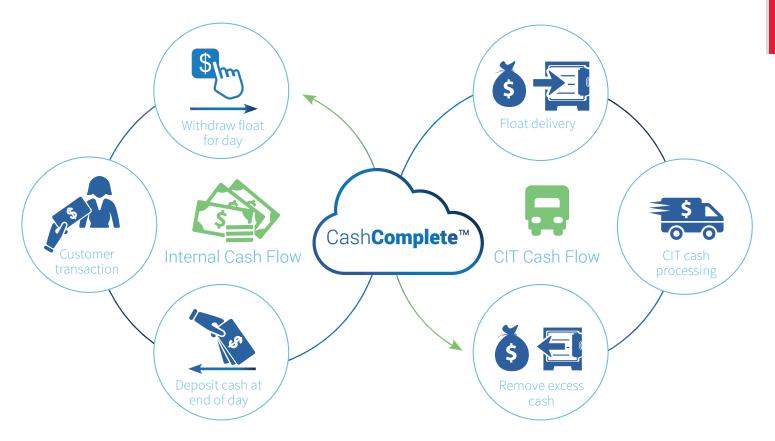
### **Decreased Working Capital**

CashComplete™ software provides accurate and efficient management of in-store cash holding requirements, allowing you to deposit surplus cash into your bank or reinvest into new opportunities. Reduce the amount of cash required in your tills by efficiently recycling the cash in your business with the SPS-300.



### **Increase Time Savings**

The SPS-300 fully automates your note handling at the point of sale, speeding up the process and allowing you to spend less time managing your cash. When paired with the CRS-600, this solution can completely replace your till, allowing the SPS to handle your cash, which reduces human reporting errors and increases staff safety.



## **Efficently Cycle Cash All Through Your Business**

By integrating the SPS-300 into your front-office POS system, you immediately reduce problems with handling cash. Increase productivity, reduce your working capital and save time by recycling your working capital instead of requesting frequent CIT pickups and deliveries.

**Technical Specifications** 

	SPS-300	CRS-600
Deposit	4-way read self-centering, single note feeder	up to 50 mixed coin, bulk loading system
Deposit Speed	1 note/second	3.5 coins/second
Storage Capacity	up to 1,000 Notes	up to 1,000 coins
Size (L x D x H)	293.88 x 393.7 x 673.1 mm (11.75" x 15.5" x 26.5")	673.1 x 609.6 x 368.3 mm (26.5" x 24" x 14.5")
Net Weight	28.12kg (62 lbs.)	44kg (98 lbs.)
Power Supply	120 VAC 60Hz	120 VAC 60Hz
Regulatory	UL Certified and RoHS Compliant	UL Certified and RoHS Compliant

Approximate speeds

# Bill to Bill 300 XE™

### **BANKNOTE RECYCLER**

### **Advanced technology for Fare collection**

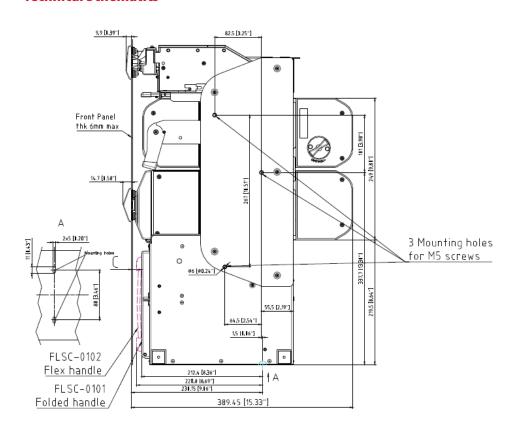
Bill-to-Bill 300 XE™ is an innovative bill validator with patented technology allowing for high acceptance rates and a superior counterfeit detection. It validates, recycles and dispenses banknotes reducing the overall cash on hand and the operating costs. It is characterized by advanced sensors technology that improves valid 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, while the other one will be directed to the drop cassette. It's also suitable for fare collection.

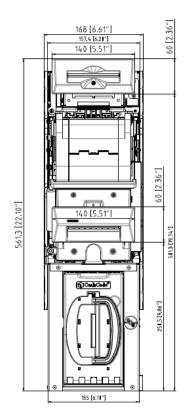




- 98% + first time insertion acceptance rate.
- Validation technology: optical, capacitive and inductive sensor technology
   Sensors: patented optical, inductive, dielectric and cross channel
- · Anti-stringing protection
- Bill acceptance: stacks of up to 25 bills, lengthwise in four directions. Four-way bill insertion and belt transportation system
- Barcoded coupons: 2 ways face up (encoding standard: ANSI/AIM BC2-1995, Uniform Symbology, Interleaved 2 of 5)
- Bill width validated: 67 ÷ 71 mm wide (fixed width) and 62 ÷ 82 mm wide (multi width). Length of bill: maximum 172 mm, minimum 124 mm
- Industry's first self-centering mechanism
- Up to 3 Lockable Recycling Cassettes. Recycling cassettes not only locked to chassis but also locked if removed to restrict access to cash during maintenance or transportation
- Drop-Proof Cash Box. RFID option in Cash Box for full tracking of cash content and cash collection personnel IDs. Docking station for RFID Cash Box for automatic print out of contents. SW tools for cash tracking and consolidation
- Multi-note dispenser for dispensing up to 20 notes in bulk
- Multi-escrow application: all validated bills will be directed from the validating head into the recycling cassette
- Up to 2 high-security locks protecting 1000-note metal cashbox contents. One additional lock to lock cashbox to device
- · High impact resistant cash vault. Durable, metal chassis
- Dual Bezel design for improved protection against vandalism. Bezel options: standard, LED, LED with digital display (optional infrared port), LED with digital display and smart card (optional infrared port)
- Interfaces: RS232, USB, serial
- · All modules can be easily removed and replaced if needed
- CCNET protocol allows for easy, remote online download
- Flash memory
- Battery backup to ensure that transactions are completed, even when power failures occur

### **Technical Schematics**





Unit of measure: mm

#### **Versions**

- Bill-to-Bill 300 XE
- Bill-to-Bill 300
- Bill-to-Bill 200G

### **Technical Specifications**

recilited specifications	
Dimensions (L x H x W)	168 x 562 x 390 mm (6.6" x 22.1" x 15.4") inside the cabinet
Weight	< 21 Kg
Dispensing speed	1.4 second per bill
Power Supply	24 Vdc
Current consumption	- Operating mode: 2.7A (6A peak) - Standby 0.7A
Operating temperature	0° ÷ 50°C
Storage temperature	$-20^{\circ} \div 60^{\circ}\text{C}$ 30%-90% RH (humidity non condensed)

### **Banknote capacity**

Recycling cassette	3x100-120 bills
Drop-Proof Cash Box	600, 900 or 1,000 bill capacity

# MFL® Validator

### BANKNOTE VALIDATOR

### Industry's most reliable, secure, modular design

MFL® is the first 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.

MFL® is widely used in gaming, transportation and retail applications across the globe.



#### **Features**

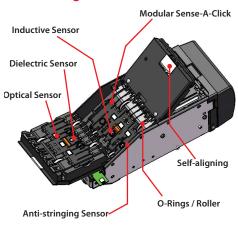
- Patented multi-sensor\* technology with self-calibration
- Aligning mechanism straightens the misaligned banknotes
- Robust mechanism and beltless bill path
- Removable sensor module\*\*
- Lockable and secured cash box
- Updates by smart-stick memory card or host machine
- It supports multiple protocols and has a standard footprint

### **Benefits**

- 98% or higher acceptance rate
- Reduced service calls for lower cost of ownership
- Easy to maintain, it supports multiple currencies
- Compliant to industry's regulation
- Easy firmware updates
- Easy to retrofit



### **Validating Head**



- It accepts up to 82 mm wide banknotes in all four directions
- · It accepts gaming barcode vouchers

### **Cash Box**

- 600 or 1,000 banknote capacity
- It can be secured on housing
- It supports 2 locks (3/4" tubular) on door



#### **Bezels**

#### **Vandal Proof Metal Bezel**



- Up-stack or down- stack
- IP24 compliant
- Outdoor applications

#### **Plastic Bezel**



### **Sensor Module**

Modular Sense-A-Click™

- Sense-A-Click™ is all in one built-in removable sensor module
- Easy to replace or upgrade in the field

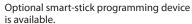
#### **Tools**

#### **Test Simulator**

Simulator program helps to integrate and test product effectively.

#### **Firmware Update**

Easy firmware upgrade in the field can be performed by ordering smart-stick memory card or network download request.



### **Optional accessories**

You can order 12 pin COM connector and applicable power supply.

# **Technical Specifications**

Size (L x H x W)	114 x 306 x 230 mm (4.5" 12" x 9")
Weight	Unit without cash box: 5.1 Kg, Cash Box 600: 1.95 Kg, Cash Box 1000: 2.4 Kg
Acceptance Rate	98% or higher***
Banknote Sensors	Multi-Sensor (optical, inductive, dielectric, anti-stringing)
Banknote Specification	Four ways, 62 $\div$ 82 mm wide, 124 $\div$ 172 mm long
Escrow	One banknote
Bezel	Indoor Durable Plastic or Outdoor Metal
Protocols Supported	CCNET, Serial, ID003, V2.2, VFM
Firmware update	Smart-Stick memory card or Network Downloadable
Power Consumption	12 Vdc: 2.0 A, 24 Vdc: 1.0 A
Temperature	Operating Temperature: $0^{\circ}$ to $50^{\circ}$ C Storage Temperature: $-30^{\circ}$ to $+60^{\circ}$ C Humidity: $30\%$ to $95\%$

<sup>\*\*\*</sup> varies by currency, banknote variations



### The ideal coin or token dispensing unit for any machine

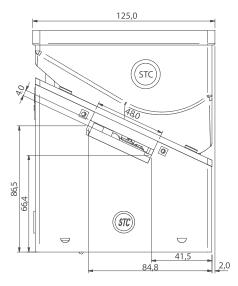
Provides high payout speed dispensing (up to 400 coins per minute) and a standard capacity of 350 coins (Ø 24 mm). Extensions are available to increase the capacity, with an average of 400 coins per extension. The square base allows for four different installation orientations, based on the customer's installation requirements.

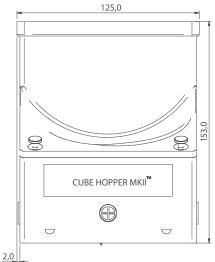
Conversion to different currencies is fast and easy. A sophisticated electronic control board, together with payout sensors, protects it against any possible accidental jams (the sensor must be kept clean and at a safe distance from any light source). Available also in the Dual Hopper version, which can payout 2 different types of coins.

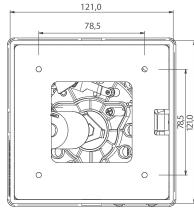
- Safer than ever, thanks to the new anti-theft metal plate and the new firmware
- Accepts coins of diameters between 18 and 31 mm and thicknesses between 1.5 and 3.2 mm
- Available in the ccTalk or parallel versions
- Also available in the Dual Hopper version, equipped with an additional sensor for measuring the coin diameter, as well as 5 special ccTalk controls for mixed coin payout
- Small, compact and easy to install, thanks to its practical installation kit (included)
- "Sun & Planet" gearbox, which allows for optimal operation with minimal consumption (from 350 mA to 850 mA with a peak of 2 A at 24 Vdc)
- The "Sun & Planet" gearbox increases the coin capacity to contain and count more than 1,200 coins with a 24 mm diameter with two extensions (max 2 extensions)
- Auto-reverse system to protect against accidental jams
- A second payout sensor is available as an option
- Two connection options: 10-pole in-line connector and 5x2 transition connector; a chain of peripherals (daisy connection) can be obtained using a ribbon cable



### **Technical Schematics**







Unit of measure: mm

# **Optional accessories**

- CBH1: board for connecting the hopper to ccTalk gaming machines with a 10 pole connector (5x2)
- Extension for increasing the coin capacity vertically
- Extension for increasing the coin capacity horizontally
- Hopper protection cover
- AGCAVOHOPPER: cable for connecting the hopper to machines that use the ccTalk protocol



# **Technical Specifications**

Dimensions (L x H x W)	125 x 153 x 125 mm (4.9" x 6" x 4.9")
Weight	780 g
Power supply	12 ÷ 24 VDC ± 10%
Current consumption	30 mA in stand-by; max 3.3 A at 24 VDC limited during dispensing
Power consumption	1 W max in stand-by - 80 W during dispensing
Operating temperature	$0^{\circ}\text{C} \div 50^{\circ}\text{C}$ – humidity $20\% \div 75\%$
Coins accepted	Ø 18 ÷ 31 mm – thickness 1.5 - 3.2 mm
Payout speed	±7 coins per second
Connection	In-line 10 pole connector - Type: molex series 6471

## **Coin Capacity**

. ,	0.25\$
Capacity	420



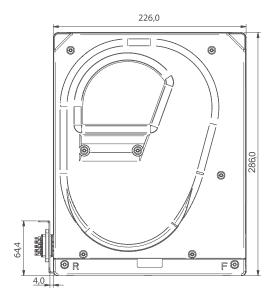
### High dispensing speed and reliability come together in a new generation of hoppers

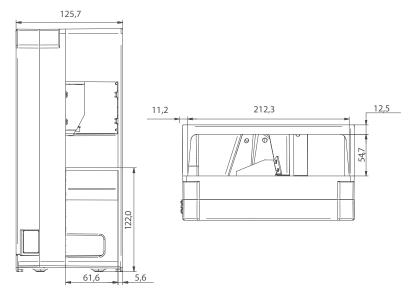
Based on a belt drive, Evolution is the result of an entirely new design, which represents a decisive improvement, in terms of both performance and ease of maintenance. The combination of extremely wear-resistant plastic resins with state of the art electronics has produced a device with low purchase and management costs. This type of hopper can be used for 95% of coins and tokens worldwide, without needing adjustments. Evolution is completely interchangeable with the other models available on the market. Suitable for many applications: Vending, Parking, Retail, Amusement.

- Board easily accessible from outside and extractible for facilitating maintenance
- DC motor, driven by an electronic actuator, which reduces friction and noise
- Equipped with a built-in agitator to prevent coin jams, as well as with additional electronic anti-jam electronics
- The standard version can be easily transformed into the adjoining version by simply removing the cover, which is fastened by two screws, and moving the connector to the new position
- Interfaces: standard, parallel or ccTalk serial.
   The latter guarantees excellent security and diagnostics management
- High-quality materials for long trouble free operations



### **Technical Schematics**





Unit of measure: mm

### **Functions**

- DC motor
- Double installation option: adjoining and standard
- Minimal maintenance
- Reduced noise
- Anti-jam electronics







Board easily extractible from the outside

### **Technical Specifications**

• • • • • • • • • • • • • • • • • • •	
Dimensions (L x H x W)	126 x 286 x 226 mm (4.9" 11.25" x 8.9")
Weight	2.5 Kg
Power supply	20 ÷ 24 VDC ± 10 %
Current consumption	40 mA in stand-by – 2.5A during dispensing
Power consumption	0.8 W in stand-by - 50 W during dispensing
Operating temperature	0 °C $\div$ 60 °C – relative humidity 5 $\div$ 95%
Coins accepted	Ø 16 ÷ 30 mm – thickness 1.25 - 3.5 mm
Payout speed	4 - 5 coins per second

# **Coin Capacity**

	0.25 \$
Capacity	1,450

# RM5 HD - COIN VALIDATOR -

### The new coin validator with the HD high-discrimination system

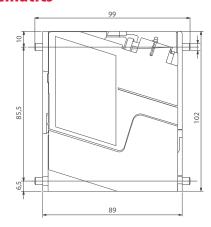
The new RM5 HD coin validator has set new standards in coin validation. Through 5 different sensors and 10 recognition parameters, it ensures a high level of recognition and discrimination of valid and counterfeit coins with an unprecedented speed of 6 coins per second (even of different values). This innovative type of construction ensures strength and durability, while advanced electronic and mechanical anti-fraud systems guarantee excellent security in all its various installation modes.

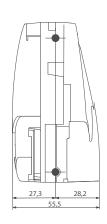
- HD high-discrimination system based on 10 different parameters regarding: frequency, dimensions and phase
- 5-sensor identification technology: 3 inductive sensors,
   1 optical sensor and 1 magnetic sensor
- High acceptance speed: 6 coins per second, even of different values
- Compatible with all coin sorters available on the market
- Advanced electronic and mechanical anti-fraud system: electronic antifishing device, coin movement direction detection, 3 mechanical traps, and wire cutting blade
- Innovative construction and design
- Indicator LED
- Also available in tropicalised version to adapt to environments exposed to adverse weather conditions
- Also available in USB version
- Validated by ECB

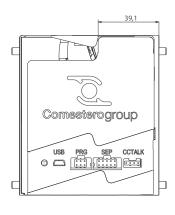




### **Technical Schematics**







Unit of measure: mm

### **Tools**

#### MultiConfig

Program for configuration via PC, which can be obtained free of charge from the download area at www.suzohapp.com/eu



#### **Virtual Dip Switch**

A new device for on-site configuration operations.



Each of the two versions are available in four models, in order to meet different installation requirements.

**Mechanical configurations** 

different acceptance channel.

maximum thickness of 3.2 mm.

RM5 HD is available in two versions, with a

· Version A, optimised for the euro, which

27 mm and maximum thickness of 2.4 mm.

Version B, which accepts coins with a

maximum diameter of 31.5 mm and

accepts coins with a maximum diameter of

### PC Programming Kit

Includes coin validator support, test box, power supply, interface cable and the MultiConfig software.



Model	Coin entry	Coin reject
F	Top or front	Front
V	Тор	Front
В	Top or front	Bottom/ left
G	Тор	Bottom/ right

### **Versions**

- Parallel Validator
- Parallel Validator with sorter
- Spain mode validator
- Binary Validator
- Confida Binary Validator
- Credit pulse emission totaliser
- Credit pulse emission totaliser with sorter control
- ccTalk Giochi Italia
- ccTalk Full

### **Optional accessories**

- RM1000-ADATTA5 vertical adaptor for vending machines without change-giver validator
- Validator Adaptor from 31/2" to 5"
- Front plates: available in the versions mod. F1 (60x118 mm) F6 (60x152 mm)
- Coin collection funnels of various heights: 9/16/25 mm
- RM5 HD PC Kit, which includes: coin validator support, test box, power supply, interface cable and the MultiConfig software
- Virtual Dip Switch
- · Label graphics customisable by quantity

### **Technical Specifications**

Dimensions (L x H x W)	99 x 102 x 55.5 mm (3.9" x 4" x 2.2")
Weight	200 g
Power supply	12 ÷ 24 ( ±10%) VDC
Current consumption	Stand by: max 70mA During acceptance: max 400mA
Operating temperature	0 °C $\div$ 55 °C - 10 $\div$ 75% humidity non-condensed (standard version) - 25 °C $\div$ 70 °C (tropicalised version)
Coins accepted	$\emptyset$ 16 ÷ 27 mm; max thickness 2.4 mm (Standard) $\emptyset$ 16 ÷ 31.5 mm; max thickness 3.4 mm (with acceptance channel: 4.5 mm)
Acceptance speed (without sorter)	Up to 6 coins per second
Acceptance rate	95% + first insertion 98% + second insertion
MTBF (Mean Time Between Failure)	at 25°C is around 170,000 hours

# DUALPRO + SOLOPRO

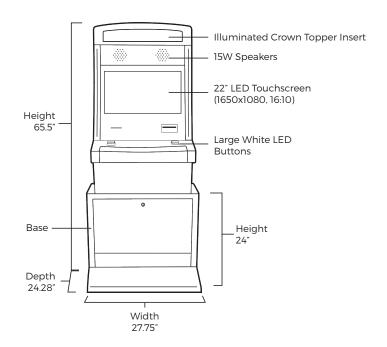
**CUSTOMIZABLE CABINETS** 

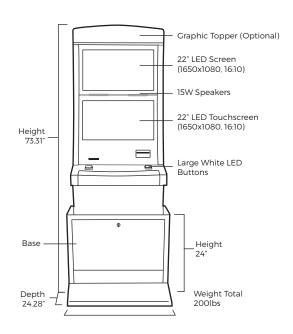
The SoloPro and DualPro platform are the perfect start for your next game launch. Simply plug in your game board and get started using our pre-fabricated sturdy, metal cabinets equipped with powerful 15W speakers and 22 inch LED LCD displays.

Don't delay the development of your next game, these cabinets are available now!



### **Technical Schematics**





Unit of measure: inches

## **Technical Specifications**

Cabinet Metal	16 Gauge G30 Galvanized Steel
Color	Powder Coat Black Wrinkle
Top Monitor	LCD 22" Open Frame LED VGA/DVI (16:10 or 16:9) Fully Supports 1920x1080 (Full HD) <b>DualPro Only</b>
Main Monitor	LCD 22" Open Frame LED VGA/DVI (16:10 or 16:9) Fully Supports 1920x1080 (Full HD) - With Optera Touchscreen 3M controller
Power Supply	400W ATX, UL, RoHS, FCC Compliant
Power Distribution Unit	AC Line filter and fuse, power on/off switch (6) NEMA AC Outlets, All components UL compliant
Speakers	3" 4 Ohm, Full range, 15W, RoHS compliant
Interlock Switch	UL94V0 Compliant
Thumb Lock	Nickel Plated/Zinc Alloy RoHS Compliant
Logic Box	Installed with Grommet
Also Includes	Complete Wire Harness, Refurbished Cashflow Validator, Large Square Buttons (Play, Ticket), Blue Side Trim LEDs, Power Cable/Cord, and VGA Splitter

Products sold by Happ Controls, Inc. are intended for legal use only. By placing/accepting an order for this item customer understands and affirms that cabinets are being purchased and will be used for legal amusement purposes only unless purchaser is authorized by regulative authorities to use otherwise. Check with your local gaming and regulatory agencies, or retain independent legal counsel, for clarification.

<sup>\* 12</sup> Month Warranty On Parts And Labor

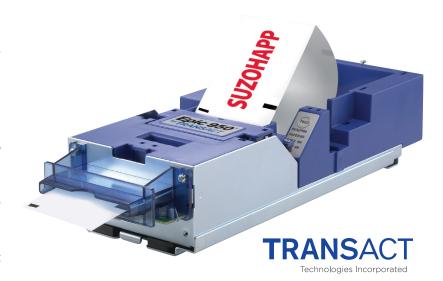
# TRANSACT PRINTER

Epic 950<sup>®</sup> =

Recognized worldwide for its unmatched reliability, and compatibility with all new and legacy games, the Epic 950° ticket-in/ticket-out (TITO) printer is installed in more than 500,000 slot machines worldwide. The Epic 950° printer also prints targeted, personalized coupons, in real time, when matched up with TransAct's powerful Epicentral software. With the addition of a TransAct ServerPort, the Epic 950° simultaneously connects to the game and to your casino management system, enabling you to reward your players with targeted promotions, while they are playing.

#### **Features**

- Easily integrated: one printer for all kind of games –
   Approved for new and legacy games
- Rugged metal chassis provides robust grounding design for high ESD immunity and optimal field performance
- Highly reliable, proven technology less than .03% failures (3 per 10,000)
- TicketBurst™ technology prints and bursts each gaming voucher before presenting the voucher, to eliminate player interference and ensure maximum up time
- Truly hot swappable with its Quick Disconnect Technology
- Extensive 8MB RAM and 4MB of Flash for printer operations and end-user definable tickets (graphics, fonts and international character sets)
- Modular design for easy serviceability
- Different Interface Options: Serial, Netplex, Netplex/ USB, and Ethernet connection
- Upgradeable to real-time coupon printing with our patented Dual Port for Epicentral and ServerPort™
- With Epicentral software, deliver personalized promotional coupons directly to the players, while they're playing



### **Tools For Printer Integration**

- Download Kit Kit contains Epic 950® USB download cable to reflash the printer, and both USA and European power supplies to power the printer externally.
- Master Programmer Hardware solution that allows up to 16 Epic 950° printers to be flashed with firmware at the same time.

### **Technical Specifications**

Dimensions (L x H x W)	113.3 x 67.6 x 285.75 mm (4.46" x 2.66" x 11.25")
Weight	1.7 Kg (3.8 lbs.)
Standard sensors	Top of Form/Ticket OUT, Ticket Taken, Ticket Low, Chasis Open, Cover Open
Print speed	- 125 mm per second (text mode) - 63 mm per second (2-colours mode)
Resolution	496 dots per line
Current consumption	24 VDC: 2.2A maximum (excluding exit lamp), 1.5A maximum (including exit lamp)
Operating temperature	5 to 60° C - 10 ÷ 90% RH
Storage and shipping temperature	10 to 50° C

# TRANSACT PRINTER

Epic 880<sup>®</sup>

The Epic 880° thermal roll printer is a compact, easily configurable, fast and reliable thermal, ticket and receipt printer for applications such as Amusement with Prizes (AWP), Skill with Prizes (SWP), Sports Betting and Video Lottery Terminals (VLT).

#### **Features**

- Small modular design, configurable to any space
- Built-in Ticket Retract capability
- Variable length printing between 2.5in and 10in (63.5 mm 254 mm) enables plenty of room for graphics, text and bar codes
- Accommodates 4" or 6" (101 mm or 152 mm) wide rolls of paper and tickets
- Auto paper-loading
- Variable-position spindle to fit any configuration
- Barcodes: Code 31, Code 39, Code 93, UPC-A & UPC-E, Codabar, EAN8, EAN13 & EAN14, Code 128, Interleaved 2 of 5

### **Optional Features**

- External Universal Power Supply
- Adjustable paper roll bracket/spindle, allowing paper roll to be mounted behind or below printer mechanism
- Variable length paper transport 63.5 mm to 254 mm long tickets (2.5in to 10in)
- Large core adapter allows you to accommodate large core paper rolls



### **Technical Specifications**

<b>-</b>	
Dimensions (L x H x W)	121.2 x 88.4 x 153.7 mm (4.8" x 3.48" x 6.06")
Weight	1.8 Kg (4 lbs.)
Printer drivers	Window XP, XPe, OPOS, USB, and Vista
Standard sensors	Paper Out, Jam Detect, Cover Open, Top of Form, Paper Low, Ticket Taken, Retract
Resolution	203 DPI
Current consumption	24 VDC, 3 Amps maximum average current
Operating temperature	5 to 50° C - 10 ÷ 90% RH
Storage and shipping temperature	10 to 50° C

# TOPPERS - MECHANICAL + VIDEO -

The perfect way to make your machines stand out. SUZOHAPP provides a multitude of topper options to ensure maximum visibility in every environment.









Card readers for Aristocrat, Bally, IGT, and Konami Games

- Bit/Strobe interface
- StatGuard<sup>™</sup> static protection
- Open slot architecture
- Front and rear card detects with jam proof card detect mechanism







70-1969-00



70-1971-00



70-1972-00













# PICTURE KEY CONTROLLER

BUTTON DISPLAY =

The SUZOHAPP Picture Key Controller is a single-panel system that features unique button configuration that can be customized and optimized for any given application.

It utilizes one LCD screen to feed content to the button array using a range of video sources through HDMI or DVI inputs. The single screen makes designing and updating labels easy – instead multiple individual LCD's to map out you only have one display panel to program.

### **Features**

- Uniform brightness and color cast across all the buttons (for the life of the product)
- · Commercial-Grade display panel
- Single screen pre-programmable control panel with multiple button display
- Each button has a 61x59 pixel screen area with millions of colors, optimum viewing angle, and a smooth 2mm travel
- Complete sub-assembly There's no need to place each of the 48 keys into a PCB and solder it into place
- Field-replaceable PCB button
- Buttons do not need individual calibration



# **ADDITIONAL BUTTONS**

# Jumbo Button with Aura RGB LED Light Assembly



# Halo Effect Illuminated Pushbutton Kit



# INTERACTIVE PRO™

**SNAPSHOT LCD BUTTON =** 

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

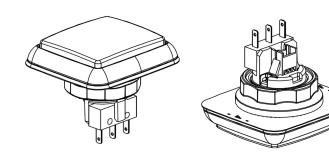
### **Features**

- Integrated seal protects button LCD circuitry from liquid spills
- HALO Button LED intensity controllable
- Light Ring comes in a range of colours
- Option to customize LCD decal surround (Black standard)
- 24 frames per second animation
- Full color 128 x 128 Pixels
- 128 x 128 pixels
- USB interface, controller board controls from 4 to 16 buttons
- RoHS compliant
- · Wide viewing angle

### **Advantages**

- Economical alternative to OLED Buttons
- Individual Buttons allow your choice of placement
- If replacement required, you don't have to replace complete button deck, just the button
- No more printed legends
- Display text or video to enhance game play or multi-function selection
- Host has full control to manipulate display images





# **Electronic Specifications**

Controller PCB	12VDC
Controller Board can drive	1 to 16 Buttons
Recommend Power Supply for 16 button panel	12VDC 2A
Current Average	12VDC 0.8A
Compliance	RoHS Compliant

### **Button mechanical dimensions** (for reference only)

Button Bezel Size with Light Ring	49.5 x 44.4 mm
Lens Cap size	38.4 x 33.4 mm
Viewing area of LCD	27.3 x 26.3 mm
Height above panel to top of Lens Cap	11.5 mm
Height below the button panel to the bottom of switch terminals	32 mm
Panel Cut out size for each button	22 x 22 mm

# **Physical Specifications**

High Quality DB5 Cherry Switch

### **Electrical ratings and operating life**

CWITCH CEDIEC	According to EN6105 8-1		According to UL1054		M I
SWITCH SERIES	Nominal Load	Operation Cycles	Nominal Load	Operation Cycles	Mechanical Life
DDE	5 1A 250V~ 50,000	50.000	1A 125/250 VAC	6000	15X
DB5		1A 48 VDC	15,000	10,000,000	

Part no	Description
RBM-828S-A-XX	LCD Button Assembly
RS828-E02-01	Controller Board

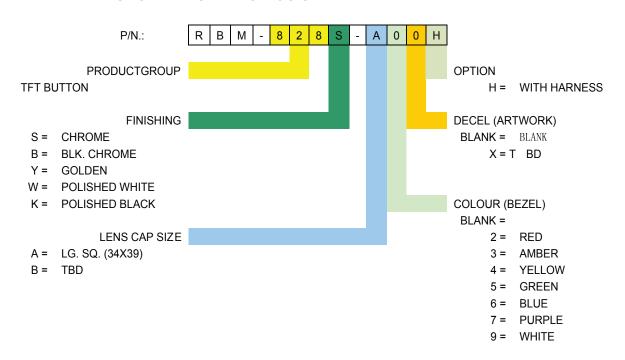
## **LCD Specifications**

LCD Type	TFT
Display Colour	262K
Viewing Direction	6:00 O'Clock
Active Area	25.5 (H) x 26.5 (V) mm
Number Of Dots	128 (H) x 128 (V) x 3 (RGB) dots
Dot Pitch	0.199 (H) x 0.207 (V) mm
Controller	RM68116
VDD	2.8V
Outline Dimensions	29.8 x 34.6 x 2.2 mm
Backlight	LED (white)
Operating Temperature	-20 ~ +70°
Storage Temperature	-30 ~ +80°
Polarizer Mode	Transmissive / Negative

### **Physical Specifications**

**Button Part Number Coding** 

#### LCD PANEL BUTTON PART NUMBER CODING SYSTE M



# GameController RGB LED GAMEPAD

### Rugged and alluring game controller to enable your next generation products!

Attracting the next generation of gamers to the casino floor by providing a more engaging and interactive experience is the biggest opportunity in today's casino market. With the direction and vision of GameCo, SUZOHAPP has designed and is now exclusively offering the GameController – a rugged and alluring controller specifically designed for skill-based games. The GameController is an experience that's familiar to console gamers and acts as a symbol and beacon for these gamers to attract them to your new game.

Equipped with an RGB LED array and including a flexible mounting system, the GameController is the only input device specifically designed for the future of skill-games.



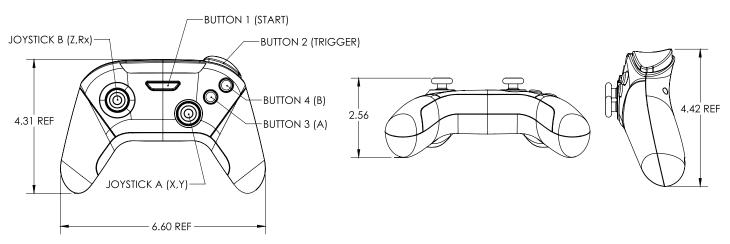
### **Features**

- · Ruggedized controller for casino environment
- Dual four-axis joysticks provide optimal control and feedback
- Scalable 2 button design plus flexible center "ACTION" button
- Right-hand trigger button similar to console games
- USB connected with drivers for Windows and Linux
- · Secure and flexible mounting system for ease of installation

### **Full Color Spectrum Display!**



### **Mechanical Layout**



Unit of measure: inches

# **SKILL-BASED GAMING**

JOYSTICKS · DRIVING CONTROLS · TRACKBALLS · LIGHTGUNS ——

### 2, 4 and 8-way Joysticks

Available in a variety of colors



Steering Wheels, Gear Shifts and Low/High Speed Shifts



**LED and Basic Trackballs** 



# VISIONPRO LCD SCREENS

SUZOHAPP offers a wide varierity of gaming LCDs to fit all your needs through our VisionPro product line including touchscreens and more.







# **3M TOUCH SCREENS**

### **Extended durability for high use applications**

MicroTouch™ ClearTek™ capacitive touch screens, manufactured by 3M Touch Systems, are the preferred touch solution for applications that require fast and accurate touch performance. The flat, capacitive profile sensor incorporates advanced construction and production techniques that result in a thin, sleek design which provides easy installation into flat panel displays and flat CRTs. The robust touch characteristics of ClearTek are attributed to its transparent overcoat, which significantly increase the physical durability of the surface by allowing it to resist scratches and abrasions. Popular applications include kiosks, ATM installations, point-of-sale, industrial equipment, gaming machines, and vending.



\* Please contact your SUZOHAPP representative for 3M Touch Screen options

# 21.5 DUAL-SIDED LCD

### INTERIOR SIGNAGE —

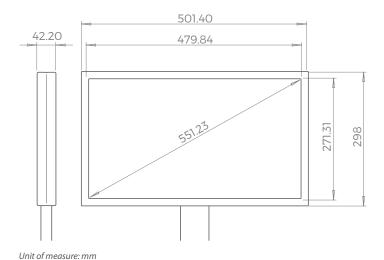
# Perfect for casinos, table games, signage or other interior environments

With its stylish design the dual-sided 21.5" FHD display is a slick way to share content, catching customers coming and going. 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 VGA or DVI signal source.



- 21.5" FHD LED industrial wide viewing angle panel
- VGA or DVI connection
- · One signal source for dual display
- 12VDC input power
- Black bezel with colored inner frame
- Custom<sup>†</sup> length round mounting pole available
- · Adjustable rotation mounting plate
- RoHS Compliance

### **Technical Schematics**



1 M<sup>†</sup> 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**

Size (L x H x W)	501.4 x 271.31 x 42.2 mm
Screen Diagonal	21.5"
Resolution	FHD 1920 x 1080
White Luminance	250 cd/m2
Contrast Ratio	3000
Operating Temperature	0 ÷ 50 °C
Viewing Angle	89° all sides
Power Requirements	12VCD
Display Height	Custom <sup>†</sup>

# INTERACTIVE PRO™

**TABLE** 

## Unique 10-Point Multi-Touch Table Experience Suitable for a Wide Range of Applications

Featuring a very robust 6 mm thick toughened glass, 10-point multi-touch projective capacitive touch screen, and a premium industrial quality 42" FHD LCD mounted inside an attractive high gloss black ABS housing - the table is equipped with an industrial grade fanless computer platform to meet the most demanding applications.

This table can be used in a host of different industries including hospitality, retail, gaming or any application where there is a possibility for more than one person at a time to utilize or interact with the system, including video and browser applications.

The bezel-free design is manufactured to withstand harsh environments and uses industrial grade components, ensuring high reliability and high customer satisfaction. Its design allows easy access to all the component parts, ensuring that service can be done quickly and efficiently.



- Dynamic 1-2-4 Screen/Interface Configurations
- 1-2-4 User Video and Browser Combinations
- Variable Multi-Touch Applications
- Multiple Channel Live Digital TV
- Direct Integration of Your Target Application Capable
- Secure Crossover Platform
- Resilient to Real Work Environments Including:
  - Room Lighting
  - · Liquid & Food Spills
  - · Shock Proof
- Two Different Models (Bar & Lounge Height)
- UL Certified Product



900m

460mm

# **Hardware options**

- 42" LCD
- Premium Industrial Grade FHD LED Panel
- Resolution: 1920 x 1080
- Wide Viewing Angle

### Interface

- 10 Point Multi-Touch Screen
- Projective Capacitive
- Toughened, 6 mm Anti-Glare Glass



# **Computer platform**

• Fanless Industrial Grade

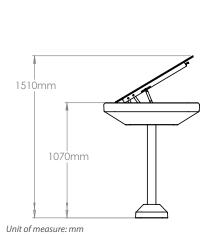
### **Power supply**

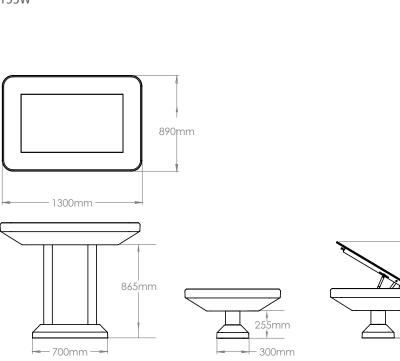
• Input Voltage 100V-240V AC capable

### **Power consumption**

• Continuous power rating approximately 155W

# **Technical Specifications**







# **INTERACTIVE PRO™**

BOOTH TV

### Interactive • Social • Connected VENUE ENTERTAINMENT

The InteractivePro™ Booth TV can be used in a host of different industries including hospitality, retail, gaming or indeed any application where there is a possibility for more than one person at a time to utilize or interact with a system, including video and browser applications. With two screen sizes available, 21.5″ and 27″, the Booth TV can be configured two different ways; a display monitor with external PC or an all-in-one display. The Booth TV is compatible with IPTV or can be used to view live digital TV with an optional TV tuner card. The InteractivePro™ BoothTV has been designed and manufactured with industrial-grade components.



- 21.5 " and 27" Monitors
- Projective capacitive 10-point multi-touch
- Multiple Channel Live Digital TV
- Web Browser
- 1-2-4 Screen User Video and Browser Combinations
- Can be integrated into other applications and POS systems



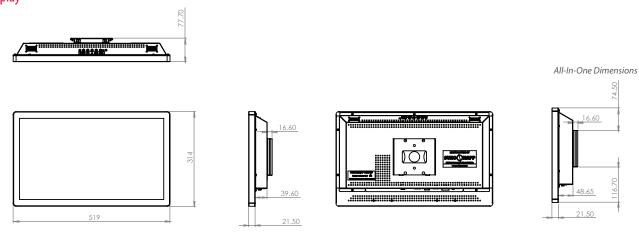
All-In-One Dimensions

16.60

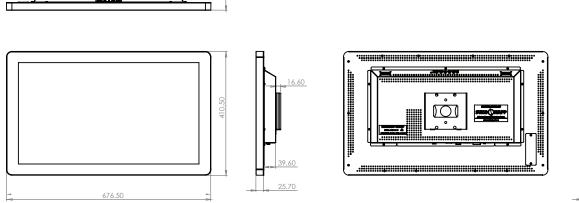
#### **BOOTH TV** 21.5" Display 27" Display 21.5" 16:9 27" 16:9 1920 x 1080 Resolution 1920 x 1080 Backlight LED LED **Bezel Opening** 477.6 (H) x 269 (V) mm 597.6 (H) x 336.15 (V) mm Landscape / Portrait **Display Orientation** Landscape / Portrait Contrast Ratio 3000 3000 300 cd/m2 Luminance 250 cd/m2 89° all sides 89° all sides Viewing Angle VGA / DVI / HDMI / DP VGA / DVI / HDMI / DP Inputs 240V AC 240VAC **Power Input** 519 x 314 x 61.1 mm (20.5" x 12.4" x 2.4") 676.5 x 410.5 x 65.3 mm (26.6" x 16.2" x 2.4") Monitor Dimensions 519 x 314 x 70.15 mm (20.5" x 12.4" x 2.8") 676.5 x 410.5 x 74.05 mm (26.6" x 16.2" x 2.8") All-In-One USB 10-point PCAP USB 10-point PCAP Touch Screen 100 mm VESA standard 100 mm VESA Standard Mounting Audio **Amp and Speakers** Amp and Speakers

### **LCD** mechanical layout

### 21.5" Display



### 27" Display



Unit of measure: mm

# DISPLAY PRO

This contemporary display has been specifically designed for flexible end of bank signage applications. The slimline signage has a small footprint and the display hinges open for servicing.

The display features a premium 42" FHD industrial LCD panel with toughened glass for screen protection. A decorative edge lit acrylic bezel can be added as an option to create a more dynamic display.

SUZOHAPP's DisplayPro is a smart display that can play a variety of images and videos.

There are three options available for displaying content:

- Standalone USB content upload
- Network Android media player based (Ethernet or WiFi)
  - Allows integration of application or web based Content Management System (CMS) for remote (or local) content updates and management
  - Local Venue Scheduling of content available, via network or USB
- External Input Wide range of display inputs to use with customer's own media player if CMS already in place
  - · Inputs include: VGA, DVI, HDMI, Display Port

- Slimline
- Small Footprint
- Concealed Mounting Points
- Edge Lit Translucent Acrylic
- Contemporary Design
- Custom Colours + Lighting
- 3 Options For Displaying Content
- Hinges Open For Servicing
- Wall Mount (Portrait or Landscape) or Stand (For Bank End)
   Mount



# **Hardware Options**

- 42" LCD
- Premium Industrial Grade FHD LED Panel
- Resolution: 1080 x 1920
- Portrait Mode
- Wide Viewing Angle

# **Power Supply**

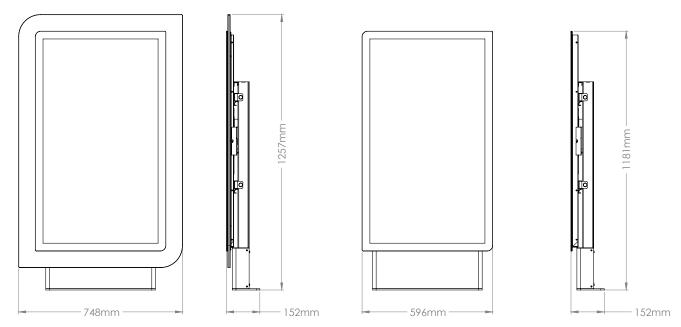
• Input Voltage 110-240VAC

# **Display Inputs**

- USB
- Network
- Display Inputs: VGA/DVI/HDMI/DP



ACRYLIC + LEDs and GLASS ONLY



Unit of measure: mm

# DUAL COIN PRO CHANGE MACHINE

### The ideal solution for dispensing large amounts of two different coin/token denominations

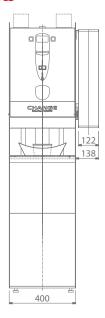
Its exceptional structural strength, reinforced closing mechanisms and ccTalk protocol make it one of the most secure change machines on the market. The 32-bit CPU provides notable functions, such as importing/exporting configuration parameters, exporting accounting data and the useful function of machine cloning.

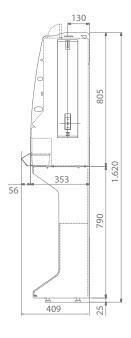
Dual Coin PRO can be equipped with the NV9 USB banknote reader with built-in stacker to stack up to 600 banknotes.

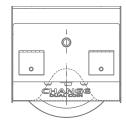
- · Operation via ccTalk
- Distribution of coins and tokens
- Bonus function for tokens
- · New 32-bit CPU with SD-Card
- Exporting of accounting data and importing of configuration parameters via SD-Card
- Machine cloning function
- Separate dispensing of coins and tokens, which are contained in different hoppers, can be selected using the appropriate button
- · Internal on/off controls to prevent tampering
- Pivoting door to facilitate dispenser-loading and cash box removal operations
- Additional doors for recharging the change machine (located on the cover)
- Coins/tokens dispensed automatically or manually
- LCD graphic display
- Installation: wall mounted, by means of 3 anchoring bolts to be inserted at the back of the device; countertop; free standing



### **Technical Schematics**







Unit of measure: mm

### **Optional peripherals**

• RM5 HD coin validator

### **Optional accessories**

- BRAIN remote control device
- Support base
- Reprogrammable lock
- Coin/token collection cups (max h 120 mm - Ø 145 mm)
- Cup dispensing tube
- Steel protective bars

### **Tools**

### Multiconfig

Software to configure the change machine.

### **Installed peripherals**

- 2 Evolution hoppers with extensions
- NV9 USB/NV10 USB Banknote reader



**Technical Specifications** 

	Change machine	Change machine on support base
Dimensions (LxHxW)	400 x 805 x 409 mm (15.75" x 31.7" x 16.1")	400 x 1,620 x 409 mm (15.75" x 63.78" x 16.1")
Weight	43 kg	60 kg
Power supply	230 Vac - 50 Hz	230 Vac - 50 Hz
Power consumption	60 W max	60 W max
Operating temperature	3°C ÷ 50 °C	3°C ÷ 50 °C

**Coin Capacity** 

	0,25¢	1 \$
2 Evolution hoppers with extensions	4,500	3,100
Cash box		4,000

# **SUZOHAPP**

www.suzohapp.com

