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#### CAMMEGH The World's Finest Roulette Wheel

Bill Cammegh made his first roulette wheel in the Summer of 1989. Over thirty-five years later, and only a few miles from where it all started, Cammegh proudly continue Bill's work with a lasting commitment to making the world's finest roulette wheels.

Today Bill's sons, Richard and Andrew, direct a team of 30, including experts from the cutting edge of technology, mechanical engineering and product design to create high quality, bespoke gaming equipment for casinos all over the world.

Keeping precision engineering and creative innovation at the heart of what we do, Cammegh has established a reputation for producing the world's finest roulette wheels and displays - products that are highly valued and replied upon by the most prestigious casinos.

Every Cammegh roulette wheel and display is assembled in the company's factory in Bethersden, Kent. With most components designed and manufactured in-house, Cammegh are able to control the production process to an unparalleled level, instilling the highest of confidence in our products.



### Precision Engineering

At the heart of Cammegh is a state-of-the-art CNC machine shop, where parts are ground to the finest precision tolerance from solid, high-tensile metals. Every detail, down to the curve of a ball stop or height of a separator, is precision-engineered for security and maximum performance.

#### Beautiful Design

Cammegh's complete control of the manufacturing process gives our creative team the freedom to design truly beautiful products. Cutting edge digital graphics blend seamlessly with hand-painted wheels and sculpted turrets to create a unique fusion of modern and classic.

#### 35 Years of Experience

Over three decades of specialising in the manufacture of roulette wheels has given us an unrivalled depth of knowledge in both the established and evolving demands of roulette. This experience explains why so many of the industry's fundamental technologies, such as in-rim sensors and contactless automatic ball launch, were invented right here at Cammegh.



#### 1989 First Wheel

Bill Cammegh makes his first roulette wheel at home in Kent





Monte Carlo

First major order: 12 bespoke roulette wheels in Monte Carlo



2003 Matrix Display

Cammegh's first Matrix Display enters the market, designed to integrate with the Mercury wheel



### 2005

Slingshot 2

Cammegh introduce the Slingshot 2, the only automatic wheel to keep the ball in view at all times

1990 Maintenance Free for Life

Cammegh design a highperformance rotor bearing that is maintenance free for life



#### 2002 Mercury Wheel

The Mercury wheel is launched, with the world's first in-rim sensors in a manual roulette wheel



2003 Large Wheel & Display Order

Star City, then the UK's largest casino, orders 14 Mercury wheels and Matrix Displays



#### 2006 Billboard Display

Cammegh's Billboard Display System enters the market, featuring fully customised HD graphics





2006

**In-Rim Sensor** 

Cammegh launch the Mercury 2, with the world's

first invisible in-rim sensor

technology

#### TO Fabulous LAS VEGAS NEVADA

2011 Las Vegas

Cammegh are awarded a Nevada gaming licence and enter the Las Vegas market



2014 Aurora & Halo

Cammegh illuminate roulette with the world's first glowing cone and race track



#### 2023 Fontainebleau

Las Vegas' newest luxury hotel & casino orders bespoke Mercury 360s and Billboard Displays

#### 2009 In-House CNC

Cammegh bring CNC machining in-house, allowing greater customisation and total control of the manufacturing process



2012 Mercury 360

Cammegh launch the Mercury 360, featuring network connectivity and high-speed result detection



2017

#### Random Rotor Speed

Cammegh patent RRS technology, adding security and game optimisation



2024 The Star Brisbane

The Star's new Brisbane casino opens, with Mercury 360s and customised Billboard Displays for all table games



# Roulette Wheels



# Classic

At the heart of all Cammegh's manual roulette wheels is the Classic, which offers all configurations and customisations, but includes no In-Rim sensors. The Classic is manufactured from our very finest materials and incorporates Cammegh's trademark Garnite racetrack for maximum durability. To pair with a display, use Cammegh's EyeBall camera system.

The Classic shown here features Walnut Burl veneer with gold-plated turret and ball stops.





# Mercury 360

The Mercury 360 is the industry's leading intelligent roulette wheel, featuring an invisible suite of sensors that provides game reports, live data output and secure winning number detection. Cammegh's open data protocol, along with native support for the Billboard Display System, makes the Mercury 360 ideal for live casinos, online and electronic gaming terminals.

All customisations are available, in addition to unique Mercury 360 features such as Halo and Random Rotor Speed. The Mercury 360 above features Mahogany veneer with nickel-plated turret and stainless steel ball stops.









### Random Rotor Speed



Cammegh's pioneering Random Rotor Speed (RRS) technology eliminates the threat of wheel clocking by randomising rotor deceleration after 'No More Bets'. By the time the ball lands, the rotor has imperceptibly slowed by up to a full revolution – all in total silence and without physical contact. This extra layer of security allows bets to be placed later in the game for an added productivity boost.

RRS is retrofittable and can be added to any new Mercury 360 that does not have the Aurora feature.



The graph above shows the rotor speed during a typical RRS game. At two points, RRS adds a random, imperceptable deceleration: when the ball is launched, and when it drops below the configurable 'No More Bets' threshold. In the case above, these random decelerations add to 7rpm of variation and the ball lands in a completely different sector of the rotor.

The Mercury 360 opposite features maple veneer with a scalloped separator ring for greater ball scatter.



# Mercury 360 Halo



The Mercury 360 Halo adds a vibrant ring of light that chases the ball around the rim and dramatically changes colour at 'No More Bets'. Additionally, the customisable colours can be used to denote table limits or simply enhance the look of the wheel. Halo can be added to any Mercury 360, and pairs beautifully with Aurora for an even brighter experience (see next page).

The Mercury 360 shown here features Santos Rosewood veneer with Halo and a scalloped separator ring.





# Mercury 360 Aurora



The dome on a Mercury 360 Aurora lights up with a rich spectrum of colour that changes dramatically at 'No More Bets'. When set to ambient mode, the Aurora's colours can also be used to denote table limits or simply enhance the look of the wheel.

The Aurora looks especially good when combined with Halo, as shown opposite.

As with any Mercury 360, the Aurora can be cutomised with the full range of finishes, including natural wood veneers. The wheel shown on this page features piano black finish with a nickel-plated turret and stainless steel ball stops.



# Mercury 360 Monaco

Paying homage to the game's French origin, the Monaco is a beautiful interpretation of Casino de Monte-Carlo's original roulette wheels, secured and enhanced by all the cutting-edge technology and connectivity of the Mercury 360.

The Mercury 360 Monaco shown here features Sapele veneer with gold tramlines, brass brightwork, 12 conical ball stops, custom number artwork and a continental-style turret.





# Mercury 360 Mini

To boost productivity and reduce its footprint, the Mercury 360 can also be produced at 75% scale. This reduces the diameter from 80 cm to 60 cm, creating tighter curves that subtly increase ball deceleration for a faster game. When miniaturised, the Mercury 360 yields up to 50% more games per hour than a standard wheel, making it ideal for online and electronic gaming terminals.

All customisations are available, except for Aurora, Halo and RRS.





### Continental

The Continental offers a truly authentic recreation of the traditional French roulette wheel, featuring shallower ball track, smaller rotor and deeper pockets. In-Rim sensors are excluded, but game results can still be obtained via Cammegh's EyeBall camera detection system.

The wheel shown here features Mahogany veneer, 12 ball stops and a stainless steel continental-style turret.





# Crystal

With its transparent design, the Crystal looks breath-taking and inspires the utmost player confidence. Single pieces of solid acrylic make up the bowl and rotor, making the wheel both pristine and extremely hard-wearing. In-Rim sensors are excluded, but game results can still be obtained via Cammegh's EyeBall camera detection system.





# Slingshot 2



The automatic Slingshot 2 uses air jets to launch the ball, which allows it to remain in sight at all times. This transparency, coupled with an elegant, highly reliable design make the Slingshot 2 perfect for use with electronic gaming terminals and online.

Three layers of security are built in: bi-directional ball launch, randomised launch speeds and Cammegh's Random Rotor Speed technology.

Podium-mounted and table-top variants are available, each with a wide range of customisations. The Slingshot below features Mahogany veneer with gold-anodised separators.









**Collector's Edition** Cammegh's **007** Collector's Edition Roulette Wheel is the result of a unique collaboration with EON Productions, producer of the James Bond films. This stunning limited-edition gift set includes a fully functional half-size replica of the Cammegh Classic in Piano Black, along with a luxury roulette cloth and colour chips.

Casino-grade materials and the world famous **007**<sup>57</sup> branding make this exclusive gift perfect for operators looking to treat their most valued customers.

**EVEN** 

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77

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21

31

2<sup>ND</sup> 12

007

0075

CAMMEGH

13

ODD

10

£

9

50

**SNITEHANO** 

3



# Wheel Customisation

From hand-sculpted turrets to bespoke lighting and number sequences, our enthusiasm for creating truly individual roulette wheels speaks for itself. Cammegh offer a wealth of configurations as standard, and we relish the challenge of designing something new.





#### Natural Wood Veneers & Synthetic Finishes


#### Turret & Ball Stop Finishes

Other Customisations



Elegant brass designs and custom triple-zeroes

5

3

Matte finishes and bold numbers for studios



15

Custom number ring





# Billboard Displays

100

\$0,0

0.70

21



0

UNITS

\$25

\$25

\$25



## Billboard Overview

Cammegh's Billboard Displays emphasise flexibility and quality of graphics. They integrate seamlessly with casino-standard roulette wheels and electronic card shoes to provide the very best player experience for any table game.

Productivity and security features provide a boost for operators, while industrial-grade hardware gives outstanding performance and reliability.

With the power of Cammegh's proprietary Billboard software, each display can host as many screen layouts as required, making it easy to switch games or welcome VIPs with their own personalised display.







LED Side Strips Optional LED side strips with intelligent software integration



#### Range of Finishes

Different colours and finishes available for the side panels and pole



High Quality Glazed Panels

90° viewing angle, 350 nits brightness and anti-reflective coating for a bright, crisp image



Pay Tables

Table limits can be edited live or saved as pre-sets and

accessed via the on-screen menu. Each set can be linked to a colour scheme for the on-screen graphics and LED side strips, making it easy for players to find the right table for them. Reserved and VIP options are available.





Security Camera Housing

Cammegh can provide custom solutions for the integration of 3rd party security

cameras and other devices.















## Roulette

When paired with a roulette wheel, the Billboard Display System provides a unique, individualised experience. Game results, statistics and promotional material appear in pin-sharp high definition, beautifully animated, while sophisticated game logging and live data export help to ensure the long-term health and security of the wheel.

Roulette results are read automatically from any casino-standard wheel, via the wheel's in-rim sensors or Cammegh's intelligent EyeBall camera system. They can also be entered manually using the keypad provided.













Cammegh's Billboard software can be completely reconfigured to suit any installation









Billboard Displays can accommodate custom games and side bets







Game timers and rotor speed indicators can be included to boost productivity









Save physical space by moving table elements onto the display

## Roulette Software Features

The huge range of features available in Cammegh's Billboard software provides the means to optimise, customise and secure any roulette table. When configured for roulette, Billboard Displays offer the following features (amongst many others):



Number Stack shows the most recent winning numbers



Hot & Cool Numbers show numbers with the most and fewest wins



**Drought** shows which number has gone the longest without winning

(	
	0
	9

Chaser shows which number came next, last time the current number won







Wagon Wheel shows the most recent winning numbers in a radial graph



Bar Graph shows the most recent winning numbers in a straight graph



**Trends** shows the number of consecutive wins for standard bet types



**Patterns** highlights less obvious trends and patterns in the number stack



Screen Layouts allow each display to hold all required games and variants



Pay Tables displays table limit pre-sets and can be linked to LED Strip colour



Productivity Timer helps dealers meet the required games per hour









Multiboard shows the live results from multiple tables on one screen



Chip Tree shows a sorted list of player chip values and/or cash chips



**Regional Support** allows a variety of languages and currencies to be used



Live Video plays video from a UDP stream or capture device



Game Logging saves an XML log for each game for use in analysis software



Dealer Log-In displays the dealer name onscreen and in game logs



Menu PIN Access restricts access to sensitive menu options, as required



Camera Housing can be made to order for custom cameras

49



## Baccarat

Baccarat has never looked more stunning than it does on Cammegh's Billboard Display System. By mixing traditional Chinese elements with cutting edge technology, the Billboard software produces a beautiful yet respectful Baccarat experience for old and new players alike, filled with exciting, slot-quality animations and all the latest side bets. Custom animations can be used to accompany special results, and both the graphics and LED side strips can be used to highlight trends

when they occur.

Game results are read automatically from all major electronic card shoes and can also be entered manually using the keypad provided.





RS232/Ethernet



Manual results entry







Most major side bets can be integrated into the results and statistics, with optional custom animations for each



Cammegh's Billboard software allows every element to be rearranged and customised to suit any theme





This display features dragons that fly around the screen when trends occur, and eggs that shower gold coins when a side bet wins



Cards can be read from all major electronic card shoes and optionally displayed onscreen when the result button is pushed

## **Baccarat Software Features**

The huge range of features available in Cammegh's Billboard software provides the means to optimise, customise and secure any baccarat table. When configured for baccarat, Billboard Displays offer the following features (amongst many others):



Main Road shows all results in the traditional Chinese arrangement



Small Roads and predictor allow players to identify trends



Manual Road shows all results together so trends can be found



**Scores** displays the score and/or percentage for every result type



Statistic Bars show the proportion of wins for Player, Banker and Tie



Side Bet Meter animates to build excitement until a side bet wins



**Trend Bar** shows the current trend length and optionally triggers animations



Patterns highlights less obvious trends and patterns in the main road



Regional Support allows a variety of languages and currencies to be used



Punto Banco Mode displays results in the traditional European arrangement



Live Video plays video from a UDP stream or capture device



Screen Layouts allow each display to hold all required games and variants



Game Logging saves an XML log for each game for use in analysis software



Pay Tables displays table limit pre-sets and can be linked to LED Strip colour

**Productivity Timer** helps dealers

meet the required games per hour



Dealer Log-In displays the dealer name onscreen and in game logs



Menu PIN Access restricts access to sensitive menu options, as required



Camera Housing can be made to order for custom cameras



Multiboard shows the live results from multiple tables on one screen

**Card Display** displays the final cards when a card shoe result button is pushed



## Multiboard

Multiboard shows the live results from multiple tables on one display so players can monitor their table while playing elsewhere or taking a break. It can be shown on a dedicated display (e.g. mounted above the casino bar) or integrated into the graphics of another Billboard.

For Baccarat, Multiboard can display the traditional Chinese main road from each connected table, along with the table's name, statistics and open/closed status. Trends can be highlighted with colours and effects in order to entice players in from other tables.

















Blackjack

The dealer's blackjack results can be entered manually through the Billboard's numeric keypad.

Result animations, statistics and a history stack can be incorporated into the display. Graphics and animations can be customised as required.



## Sic Bo

Dice values for sic bo can be entered manually using the Billboard's numeric keypad, which animates the on-screen pay table to stylishly highlight winning bets.

Statistics for 'Big', 'Small' and 'Triple' results can be added, along with a comprehensive results stack and customised dice animations.



## Other Games

System is flexible enough to be used for almost any other game. Contact us to ask what we can do for your table game.





The Billboard software is flexible enough to be used for almost any table game



Spread-Bet Roulette transparently generates a bonus number from 0 - 72, enabling high payouts at an increased house edge. Two concentric roulette number rings appear on the display, spinning in opposing directions. At 'No More Bets', both rings stop, randomly aligning the numbers.

The winning roulette number then determines which two aligning numbers are added together to make the final Spread-Bet sum. Players bet on the spread into which this sum falls.

Spreads, house edges and graphics can be extensively customised.

#### Equipment

Spread-Bet Roulette comes with a new table layout and a Billboard Display (or a new screen layout) to generate the winning spreads.



#### How to Play



**Place your bets** on one or more of the Spread-Bet spots on the table



When a game starts, the Spread-Bet **rings start spinning**...



...and stop at 'No More Bets', putting them into a **random alignment** 

## $\downarrow$



When the ball lands, the winning number is **added** to its aligning number





If the **sum** lies within your **spread**, you are paid out at the odds shown



#### Single Zero Double Zero



Spread ranges can be customised to fine-tune house edges





Spread-Bet Plus is an exciting new expansion for Cammegh's popular side bet, Spread-Bet Roulette. Available for both new and existing installations, Spread-Bet Plus gives players the chance to win a progressive jackpot without affecting the traditional game.

Jackpots, re-seed values and house edges can be extensively customised to suit any installation. Players can re-buy at any stage – even if they already have chips in play.

By changing the jackpot qualifying number ('0' by default), the frequency of jackpot wins can be customised (see next page).

#### Equipment

Spread-Bet Plus comes with a new table layout, a set of gold chips, a jackpot server and a dealer tablet to conduct the game.

A Billboard Display shows the jackpot, buyins and each player's progress.





When the Spread-Bet total equals the qualifying number, players who have bet on the progressive then make a single straight-up bet for the jackpot.

#### How to Play



**Buy in** by betting that the Spread-Bet sum will match the jackpot qualifying number



If it does, you receive a **Gold Chip** to place straight up in the next game...

22

26

-



...and if that number wins, you've won the **Gold Jackpot**  

Roulette 66 is an example of how Spread-Bet Plus (see previous page) may be customised to create a distinctive new progressive side bet, with fresh graphics and a higher hit rate.

By changing the qualification number from '0' to '66', Roulette 66 allows players to enter the jackpot round more frequently (as there are more ways for the Spread-Bet rings to make '66' than to make '0').

Graphics on the display and table layout (inspired by America's famous Route 66) help to create a unified experience for the player.

#### Equipment

As with Spread-Bet Plus, Roulette 66 comes with a new table layout, a set of gold chips, a jackpot server and a dealer tablet to conduct the game.

A Billboard Display shows the jackpot, buyins and each player's progress.





When the Spread-Bet total equals the qualifying number, players who have bet on the progressive can make a single straight-up bet for the jackpot.

#### How to Play



**Buy in** by betting that the Spread-Bet sum will match the jackpot qualifying number



If it does, you receive a **Gold Chip** to place straight up in the next game...



...and if that number wins, you've won the **Gold Jackpot** 





Place a traditional bet before buying in to Spread-Bet Blackjack

Bet on a spread before any cards are dealt

When your hand is dealt, its card values are **added together** 

If the **sum** lies within your **spread**, you win at the odds shown





Spread-Bet Blackjack invites players to bet on the sum of their first two cards, adding variety for the player and an increased house edge for the casino — all without affecting the traditional experience of the game. Spread-Bets are paid out before the first player chooses whether to receive another card.

The side bet can be added to any blackjack table that uses a continuous 6-deck card shuffler. A new table layout is provided, featuring the Spread-Bet Blackjack bet spots. A simplified variant, with a single bet spot for each player, is also available (see next page).

The table layout above shows a back-betting variant, alongside 3rd party side bets.





**I**A

NS

11

**4-5** 21 to 1

Standard: 9.13% Royal Rule: 5.57%



Standard: 7.69% Royal Rule: 4.13%

Royal Rule: A player's Spread-Bets are pushed if they receive Ace + Picture Card





Place a traditional bet before buying in to Spread-Bet Blackjack

Bet on Spread-Bet before any cards are dealt

When your hand is dealt, its card values are **added together** 

If the **sum** lies within one of the **spreads**, you win at the odds shown





In order to simplify Spread-Bet Blackjack, a single betting spot variant is available. The single bet spot makes the game easier for players and provides more space for other side bets. The game otherwise remains the same, with players betting that the sum of their first two cards will fall into one of the spreads printed on the cloth. If it does, they are paid out as shown.

Spread-Bets are paid out before the first player chooses whether to receive another card.

The side bet can be added to any blackjack table that uses a continuous card shuffler (6 decks). A new table layout is provided, featuring the Spread-Bet Blackjack bet spots.

#### Payouts & House Edges



Sum of 2-3 pays 5 to 1 Sum of 4-5 pays 4 to 1 Sum of 6-9 pays 3 to 1 House Edge: 7.27%

**SLA** 

NS

Spread-Brief Option 2 Sum of 2-3 pays 12 to 1 Sum of 4-5 pays 5 to 1 Sum of 6-9 pays 2 to 1 House Edge: 6.23%



Sum of 2-3 pays 15 to 1 Sum of 4-5 pays 4 to 1 Sum of 6-9 pays 2 to 1 House Edge: 5.1%

Royal Rule: A player's Spread-Bets are pushed if they receive Ace + Picture Card



## Wheel Level

The Cammegh wheel level has an elegant two-piece design for exceptional durability and longevity. The two arms are connected with magnets to prevent the gradual loss of tension that occurs in classic spring levels. The device works with all casino standard roulette wheels. It is assembled by snapping the arms together, then inserted into the inner rim and read using the integrated spirit levels.

Cammegh recommend weekly checks to ensure all wheels are level and

# reduce the risk of bias. 0 9

## Dollies

Dollies are available in the shape of a miniature Cammegh turret or a modern geometric design in clear acrylic. Custom finishes and bespoke designs are available on request.



## Wheel Covers

Security covers for manual Cammegh wheels come in perspex and fabric designs (perspex shown). Both are lockable and incorporate security tags. Fabric covers can be customised extensively.



## Roulette Balls

Roulette balls are available in 21 and 18 mm sizes. Ivorine balls replicate the traditional ivory look and feel, offering a higher bounce for increased ball scatter.

Teflon balls are softer, producing a quieter, faster game for increased productivity. Signature UV-marked balls are available on demand.



## TD3 Keypad

Chips

The TD3 Keypad provides quick access to a number of Baccarat and Roulette functions, such as results entry, table limits and open/closed status. LED back lighting glows red or blue when a Baccarat result is entered.



Cammegh's partnership with some of the world's leading chip manufacturers allows us to offer high quality wheel checks and cash chips with tremendous flexibility in design and the best security features.



# Technical Services

Cammegh offer a committed support service to all customers, from point of sale throughout the product's lifetime.

The Technical Services team prides itself on personable contact and rapid fault resolution through a variety of remote and onsite services. Customers across the globe can enjoy friendly, professional assistance from a team with many years of expertise in table gaming operations.

Services include:

- Online remote support
- Telephone support
- On-site installation
- Routine controlled maintenance
- Technical troubleshooting
- OEM spare parts
- Technical training
- 3rd party systems integrations

Contact Cammegh Technical Services:



Click to call +44 (0)1233 820771



Click to e-mail support@cammegh.com



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