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PROVIDING LIVE DEALERS TO REMOTELY LOCATED TABLE GAMES

Abstract

Game information for a wagering game is received from a remote gaming table. Live actions by a live dealer for the wagering game are captured by an image capture device. Image information based on the captured live actions are transmitted to the remote gaming table to provide a live holographic image of the dealer at the remote gaming table. An input device receives game input from the live dealer and game instructions based on the game input are transmitted to the remote gaming table to execute game actions at the remote gaming table to generate a game result for the wagering game.

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Background/Summary

BACKGROUND

[0001] Embodiments described herein relate to network-connected wagering games, and in particular to providing live dealers to remote gaming tables in a casino environment, and related devices, systems, and methods. Table games in casinos may provide wagering opportunities for players at the tables for primary wagering games as well as side bets, side bets, or other secondary games. Live dealers for physical table games typically rotate among different tables in a single casino on a set schedule, making it difficult for players to play wagering games with specific dealers at specific times. There is a need for a unique technical solution to the technical problem of matching players with specific live dealers to enhance player enjoyment.

BRIEF SUMMARY

[0002] According to some embodiments, a system includes a processor circuit and a memory coupled to the processor circuit. The memory includes machine-readable instructions that, when executed by the processor circuit, cause the processor circuit to receive, from a remote gaming table, game information for a wagering game at the remote gaming table. The instructions further cause the processor circuit to capture, by an image capture device, live actions by a live dealer for the wagering game. The instructions further cause the processor circuit to transmit, to the remote gaming table, image information based on the captured live actions to provide a live holographic image of the dealer at the remote gaming table. The instructions further cause the processor circuit to receive, by an input device, game input from the live dealer. The instructions further cause the processor circuit to transmit, to the remote gaming table, game instructions based on the game input to execute game actions at the remote gaming table to generate a game result for the wagering game.

[0003] According to some embodiments, a system includes a processor circuit and a memory coupled to the processor circuit. The memory includes machine-readable instructions that, when executed by the processor circuit, cause the processor circuit to transmit, to a remote dealer location, game information for a wagering game at a gaming table. The instructions further cause the processor circuit to receive, from the remote dealer location, image information based on captured live actions of a live dealer. The instructions further cause the processor circuit to display, based on the image information, a live holographic image of the dealer at the gaming table. The instructions further cause the processor circuit to receive, from the remote dealer location, game instructions based on game input received from the live dealer. The instructions further cause the processor circuit to execute, based on the game instructions, game actions at the gaming table to generate a game result for the wagering game.

[0004] According to some embodiments, a method includes receiving, from a remote gaming table, game information for a wagering game at the remote gaming table. The method further includes capturing, by an image capture device, live actions by a live dealer for the wagering game. The method further includes transmitting, to the remote gaming table, image information based on the captured live actions to provide a live holographic image of the dealer at the remote gaming table. The method further includes receiving, by an input device, game input from the live dealer. The method further includes transmitting, to the remote gaming table, game instructions based on the game input to execute game actions at the remote gaming table to generate a game result for the wagering game.

Description

BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE DRAWINGS

[0005] FIG. 1 is a schematic block diagram illustrating a network configuration for a plurality of gaming devices according to some embodiments.

[0006] FIG. 2A is a perspective view of a gaming device that can be configured according to some embodiments.

[0007] FIG. 2B is a schematic block diagram illustrating an electronic configuration for a gaming device according to some embodiments.

[0008] FIG. 2C is a schematic block diagram that illustrates various functional modules of a gaming device according to some embodiments.

[0009] FIG. 2D is perspective view of a gaming device that can be configured according to some embodiments.

[0010] FIG. 2E is a perspective view of a gaming device according to further embodiments.

[0011] FIG. 3 illustrates a system for providing a live dealer remotely at one or more gaming tables in a casino environment, according to some embodiments.

[0012] FIG. 4 illustrates a system for providing multiple live dealers remotely via a combined stream at the same gaming table in a casino environment, according to some embodiments.

[0013] FIG. 5 illustrates a system for providing multiple live dealers remotely from different remote dealer locations in separate streams at the same gaming table in a casino environment, according to some embodiments.

[0014] FIG. 6 illustrates a system for providing multiple live dealers remotely from different remote dealer locations in separate streams for different games being played simultaneously by different players at the same gaming table in a casino environment, according to some embodiments.

[0015] FIG. 7 illustrates a system for a remote dealer remotely controlling physical game objects such as a physical roulette wheel, according to some embodiments.

[0016] FIG. 8 illustrates a system for a remote dealer streaming an image of a physical game object such as a physical roulette wheel to the remote gaming table, according to some embodiments.

[0017] FIG. 9 is a flowchart illustrating operations of systems/methods for facilitating embodiments described herein.

[0018] FIG. 10 is a flowchart illustrating operations of systems/methods for facilitating embodiments described herein.

DETAILED DESCRIPTION

[0019] Embodiments described herein relate to network-connected wagering games, and in particular to providing live dealers to remote gaming tables in a casino environment, and related devices, systems, and methods. Before describing these and other features in greater detail, reference is now made to FIG. 1, which illustrates a gaming system 10 including a plurality of gaming devices 100. The gaming devices 100 may be one type of a variety of different types of gaming devices, such as electronic gaming machines (EGMs), mobile gaming devices, or other devices, for example. The gaming system 10 may be located, for example, on the premises of a gaming establishment, such as a casino. The gaming devices 100, which are typically situated on a casino floor, may be in communication with each other and/or at least one central controller 40 through a data communication network 50 that may include a remote communication link. The data communication network 50 may be a private data communication network that is operated, for example, by the gaming facility that operates the gaming devices 100. Communications over the data communication network 50 may be encrypted for security. The central controller 40 may be any suitable server or computing device which includes at least one processing circuit and at least one memory or storage device. Each gaming device 100 may include a processing circuit that transmits and receives events, messages, commands or any other suitable data or signal between the gaming device 100 and the central controller 40. The gaming device processing circuit is operable to execute such communicated events, messages or commands in conjunction with the operation of the gaming device 100. Moreover, the processing circuit of the central controller 40 is configured to transmit and receive events, messages, commands or any other suitable data or signal between the central controller 40 and each of the individual gaming devices 100. In some embodiments, one

or more of the functions of the central controller **40** may be performed by one or more gaming device processing circuits. Moreover, in some embodiments, one or more of the functions of one or more gaming device processing circuits as disclosed herein may be performed by the central controller **40**.

[0020] A wireless access point **60** provides wireless access to the data communication network **50**. The wireless access point **60** may be connected to the data communication network **50** as illustrated in FIG. **1**, and/or may be connected directly to the central controller **40** or another server connected to the data communication network **50**.

[0021] A player tracking server **45** may also be connected through the data communication network **50**. The player tracking server **45** may manage a player tracking account that tracks the player's gameplay and spending and/or other player preferences and customizations, manages loyalty awards for the player, manages funds deposited or advanced on behalf of the player, and other functions. Player information managed by the player tracking server **45** may be stored in a player information database **47**.

[0022] As further illustrated in FIG. **1**, the gaming system **10** may include a ticket server **90** that is configured to print and/or dispense wagering tickets. The ticket server **90** may be in communication with the central controller **40** through the data communication network **50**. Each ticket server **90** may include a processing circuit that transmits and receives events, messages, commands or any other suitable data or signal between the ticket server **90** and the central controller **40**. The ticket server **90** processing circuit may be operable to execute such communicated events, messages or commands in conjunction with the operation of the ticket server **90**. Moreover, in some embodiments, one or more of the functions of one or more ticket server **90** processing circuits as disclosed herein may be performed by the central controller **40**.

[0023] The gaming devices **100** communicate with one or more elements of the gaming system **10** to coordinate providing wagering games and other functionality. For example, in some embodiments, the gaming device **100** may communicate directly with the ticket server **90** over a wireless interface **62**, which may be a WiFi link, a Bluetooth link, a near field communications (NFC) link, etc. In other embodiments, the gaming device **100** may communicate with the data communication network **50** (and devices connected thereto, including other gaming devices **100**) over a wireless interface **64** with the wireless access point **60**. The wireless interface **64** may include a WiFi link, a Bluetooth link, an NFC link, etc. In still further embodiments, the gaming devices **100** may communicate simultaneously with both the ticket server **90** over the wireless interface **66** and the wireless access point **60** over the wireless interface **64**. Some embodiments provide that gaming devices **100** may communicate with other gaming devices over a wireless interface **64**. In these embodiments, wireless interface **62**, wireless interface **64** and wireless interface **66** may use different communication protocols and/or different communication resources, such as different frequencies, time slots, spreading codes, etc.

[0024] Embodiments herein may include different types of gaming devices. One example of a gaming device includes a gaming device **100** that can use gesture and/or touch-based inputs according to various embodiments is illustrated in FIGS. **2A**, **2B**, and **2C** in which FIG. **2A** is a perspective view of a gaming device **100** illustrating various physical features of the device, FIG. **2B** is a functional block diagram that schematically illustrates an electronic relationship of various elements of the gaming device **100**, and FIG. **2C** illustrates various functional modules that can be stored in a memory device of the gaming device **100**. The embodiments shown in FIGS. **2A** to **2C** are provided as examples for illustrative purposes only. It will be appreciated that gaming devices may come in many different shapes, sizes, layouts, form factors, and configurations, and with varying numbers and types of input and output devices, and that embodiments are not limited to the particular gaming device structures described herein.

[0025] Gaming devices **100** typically include a number of standard features, many of which are illustrated in FIGS. **2A** and **2B**. For example, referring to FIG. **2A**, a gaming device **100** (which is

an EGM **160** in this embodiment) may include a support structure, housing **105** (e.g., cabinet) which provides support for a plurality of displays, inputs, outputs, controls and other features that enable a player to interact with the gaming device **100**.

[0026] The gaming device **100** illustrated in FIG. 2A includes a number of display devices, including a primary display device **116** located in a central portion of the housing **105** and a secondary display device **118** located in an upper portion of the housing **105**. A plurality of game components **155** are displayed on a display screen **117** of the primary display device **116**. It will be appreciated that one or more of the display devices **116**, **118** may be omitted, or that the display devices **116**, **118** may be combined into a single display device. The gaming device **100** may further include a player tracking display **142**, a credit display **120**, and a bet display **122**. The credit display **120** displays a player's current number of credits, cash, account balance or the equivalent. The bet display **122** displays a player's amount wagered. Locations of these displays are merely illustrative as any of these displays may be located anywhere on the gaming device **100**.

[0027] The player tracking display **142** may be used to display a service window that allows the player to interact with, for example, their player loyalty account to obtain features, bonuses, comps, etc. In other embodiments, additional display screens may be provided beyond those illustrated in FIG. 2A. In some embodiments, one or more of the player tracking display **142**, the credit display **120** and the bet display **122** may be displayed in one or more portions of one or more other displays that display other game related visual content. For example, one or more of the player tracking display **142**, the credit display **120** and the bet display **122** may be displayed in a picture in a picture on one or more displays.

[0028] The gaming device **100** may further include a number of input devices **130** that allow a player to provide various inputs to the gaming device **100**, either before, during or after a game has been played. The gaming device may further include a game play initiation button **132** and a cashout button **134**. The cashout button **134** is utilized to receive a cash payment or any other suitable form of payment corresponding to a quantity of remaining credits of a credit display.

[0029] In some embodiments, one or more input devices of the gaming device **100** are one or more game play activation devices that are each used to initiate a play of a game on the gaming device **100** or a sequence of events associated with the gaming device **100** following appropriate funding of the gaming device **100**. The example gaming device **100** illustrated in FIG. 2A and 2B includes a game play activation device in the form of a game play initiation button **132**. It should be appreciated that, in other embodiments, the gaming device **100** begins game play automatically upon appropriate funding rather than upon utilization of the game play activation device.

[0030] In some embodiments, one or more input device **130** of the gaming device **100** may include wagering or betting functionality. For example, a maximum wagering or betting function may be provided that, when utilized, causes a maximum wager to be placed. Another such wagering or betting function is a repeat the bet device that, when utilized, causes the previously placed wager to be placed. A further such wagering or betting function is a bet one function. A bet is placed upon utilization of the bet one function. The bet is increased by one credit each time the bet one device is utilized. Upon the utilization of the bet one function, a quantity of credits shown in a credit display (as described below) decreases by one, and a number of credits shown in a bet display (as described below) increases by one.

[0031] In some embodiments, as shown in FIG. 2B, the input device(s) **130** may include and/or interact with additional components, such as gesture sensors **156** for gesture input devices, and/or a touch-sensitive display that includes a digitizer **152** and a touchscreen controller **154** for touch input devices, as disclosed herein. The player may interact with the gaming device **100** by touching virtual buttons on one or more of the display devices **116**, **118**, **140**. Accordingly, any of the above-described input devices, such as the input device **130**, the game play initiation button **132** and/or the cashout button **134** may be provided as virtual buttons or regions on one or more of the display devices **116**, **118**, **140**.

[0032] Referring briefly to FIG. 2B, operation of the primary display device **116**, the secondary display device **118** and the player tracking display **142** may be controlled by a video controller **30** that receives video data from a processing circuit **12** or directly from a memory device **14** and displays the video data on the display screen. The credit display **120** and the bet display **122** are typically implemented as simple liquid crystal display (LCD) or light emitting diode (LED) displays that display a number of credits available for wagering and a number of credits being wagered on a particular game. Accordingly, the credit display **120** and the bet display **122** may be driven directly by the processing circuit **12**. In some embodiments however, the credit display **120** and/or the bet display **122** may be driven by the video controller **30**.

[0033] Referring again to FIG. 2A, the display devices **116**, **118**, **140** may include, without limitation: a cathode ray tube, a plasma display, an LCD, a display based on LEDs, a display based on a plurality of organic light-emitting diodes (OLEDs), a display based on polymer light-emitting diodes (PLEDs), a display based on a plurality of surface-conduction electron-emitters (SEDs), a display including a projected and/or reflected image, or any other suitable electronic device or display mechanism. In certain embodiments, as described above, the display devices **116**, **118**, **140** may include a touchscreen with an associated touchscreen controller **154** and digitizer **152**. The display devices **116**, **118**, **140** may be of any suitable size, shape, and/or configuration. The display devices **116**, **118**, **140** may include flat or curved display surfaces.

[0034] The display devices **116**, **118**, **140** and video controller **30** of the gaming device **100** are generally configured to display one or more game and/or non-game images, symbols, and indicia. In certain embodiments, the display devices **116**, **118**, **140** of the gaming device **100** are configured to display any suitable visual representation or exhibition of the movement of objects; dynamic lighting; video images; images of people, characters, places, things, and faces of cards; and the like. In certain embodiments, the display devices **116**, **118**, **140** of the gaming device **100** are configured to display one or more virtual reels, one or more virtual wheels, and/or one or more virtual dice. In other embodiments, certain of the displayed images, symbols, and indicia are in mechanical form. That is, in these embodiments, the display device **116**, **118**, **140** includes any electromechanical device, such as one or more rotatable wheels, one or more reels, and/or one or more dice, configured to display at least one or a plurality of game or other suitable images, symbols, or indicia.

[0035] The gaming device **100** also includes various features that enable a player to deposit credits in the gaming device **100** and withdraw credits from the gaming device **100**, such as in the form of a payout of winnings, credits, etc. For example, the gaming device **100** may include a bill/ticket dispenser **136**, a bill/ticket acceptor **128**, and a coin acceptor **126** that allows the player to deposit coins into the gaming device **100**.

[0036] As illustrated in FIG. 2A, the gaming device **100** may also include a currency dispenser **137** that may include a note dispenser configured to dispense paper currency and/or a coin generator configured to dispense coins or tokens in a coin payout tray.

[0037] The gaming device **100** may further include one or more speakers **150** controlled by one or more sound cards **28** (FIG. 2B). The gaming device **100** illustrated in FIG. 2A includes a pair of speakers **150**. In other embodiments, additional speakers, such as surround sound speakers, may be provided within or on the housing **105**. Moreover, the gaming device **100** may include built-in seating with integrated headrest speakers.

[0038] In various embodiments, the gaming device **100** may generate dynamic sounds coupled with attractive multimedia images displayed on one or more of the display devices **116**, **118**, **140** to provide an audio-visual representation or to otherwise display full-motion video with sound to attract players to the gaming device **100** and/or to engage the player during gameplay. In certain embodiments, the gaming device **100** may display a sequence of audio and/or visual attraction messages during idle periods to attract potential players to the gaming device **100**. The videos may be customized to provide any appropriate information.

[0039] The gaming device **100** may further include a card reader **138** that is configured to read magnetic stripe cards, such as player loyalty/tracking cards, chip cards, and the like. In some embodiments, a player may insert an identification card into a card reader of the gaming device. In some embodiments, the identification card is a smart card having a programmed microchip or a magnetic strip coded with a player's identification, credit totals (or related data) and other relevant information. In other embodiments, a player may carry a portable device, such as a cell phone, a radio frequency identification tag or any other suitable wireless device, which communicates a player's identification, credit totals (or related data) and other relevant information to the gaming device. In some embodiments, money may be transferred to a gaming device through electronic funds transfer. When a player funds the gaming device, the processing circuit determines the amount of funds entered and displays the corresponding amount on the credit or other suitable display as described above.

[0040] In some embodiments, the gaming device **100** may include an electronic payout device or module configured to fund an electronically recordable identification card or smart card or a bank or other account via an electronic funds transfer to or from the gaming device **100**.

[0041] FIG. **2B** is a block diagram that illustrates logical and functional relationships between various components of a gaming device **100**. It should also be understood that components described in FIG. **2B** may also be used in other computing devices, as desired, such as mobile computing devices for example. As shown in FIG. **2B**, the gaming device **100** may include a processing circuit **12** that controls operations of the gaming device **100**. Although illustrated as a single processing circuit, multiple special purpose and/or general-purpose processors and/or processor cores may be provided in the gaming device **100**. For example, the gaming device **100** may include one or more of a video processor, a signal processor, a sound processor and/or a communication controller that performs one or more control functions within the gaming device **100**. The processing circuit **12** may be variously referred to as a "controller," "microcontroller," "microprocessor" or simply a "computer." The processor may further include one or more application-specific integrated circuits (ASICs).

[0042] Various components of the gaming device **100** are illustrated in FIG. **2B** as being connected to the processing circuit **12**. It will be appreciated that the components may be connected to the processing circuit **12** through a system bus **151**, a communication bus and controller, such as a universal serial bus (USB) controller and USB bus, a network interface, or any other suitable type of connection.

[0043] The gaming device **100** further includes a memory device **14** that stores one or more functional modules **20**. Various functional modules **20** of the gaming device **100** will be described in more detail below in connection with FIG. **2D**.

[0044] The memory device **14** may store program code and instructions, executable by the processing circuit **12**, to control the gaming device **100**. The memory device **14** may also store other data such as image data, event data, player input data, random or pseudo-random number generators, pay-table data or information and applicable game rules that relate to the play of the gaming device. The memory device **14** may include random access memory (RAM), which can include non-volatile RAM (NVRAM), magnetic RAM (ARAM), ferroelectric RAM (FeRAM) and other forms as commonly understood in the gaming industry. In some embodiments, the memory device **14** may include read only memory (ROM). In some embodiments, the memory device **14** may include flash memory and/or EEPROM (electrically erasable programmable read only memory). Any other suitable magnetic, optical and/or semiconductor memory may operate in conjunction with the gaming device disclosed herein.

[0045] The gaming device **100** may further include a data storage **22**, such as a hard disk drive or flash memory. The data storage **22** may store program data, player data, audit trail data or any other type of data. The data storage **22** may include a detachable or removable memory device, including, but not limited to, a suitable cartridge, disk, CD ROM, Digital Video Disc ("DVD") or

USB memory device.

[0046] The gaming device **100** may include a communication adapter **26** that enables the gaming device **100** to communicate with remote devices over a wired and/or wireless communication network, such as a local area network (LAN), wide area network (WAN), cellular communication network, or other data communication network. The communication adapter **26** may further include circuitry for supporting short range wireless communication protocols, such as Bluetooth and/or NFC that enable the gaming device **100** to communicate, for example, with a mobile communication device operated by a player.

[0047] The gaming device **100** may include one or more internal or external communication ports that enable the processing circuit **12** to communicate with and to operate with internal or external peripheral devices, such as eye tracking devices, position tracking devices, cameras, accelerometers, arcade sticks, bar code readers, bill validators, biometric input devices, bonus devices, button panels, card readers, coin dispensers, coin hoppers, display screens or other displays or video sources, expansion buses, information panels, keypads, lights, mass storage devices, microphones, motion sensors, motors, printers, reels, Small Computer System Interface (“SCSI”) ports, solenoids, speakers, thumb drives, ticket readers, touch screens, trackballs, touchpads, wheels, and wireless communication devices. In some embodiments, internal or external peripheral devices may communicate with the processing circuit through a USB hub (not shown) connected to the processing circuit **12**.

[0048] In some embodiments, the gaming device **100** may include a sensor, such as a camera **127**, in communication with the processing circuit **12** (and possibly controlled by the processing circuit **12**) that is selectively positioned to acquire an image of a player actively using the gaming device **100** and/or the surrounding area of the gaming device **100**. In one embodiment, the camera **127** may be configured to selectively acquire still or moving (e.g., video) images and may be configured to acquire the images in either an analog, digital or other suitable format. The display devices **116**, **118**, **140** may be configured to display the image acquired by the camera **127** as well as display the visible manifestation of the game in split screen or picture-in-picture fashion. For example, the camera **127** may acquire an image of the player and the processing circuit **12** may incorporate that image into the primary and/or secondary game as a game image, symbol or indicia.

[0049] Various functional modules of that may be stored in a memory device **14** of a gaming device **100** are illustrated in FIG. 2C. Referring to FIG. 2C, the gaming device **100** may include in the memory device **14** a game module **20A** that includes program instructions and/or data for operating a hybrid wagering game as described herein. The gaming device **100** may further include a player tracking module **20B**, an electronic funds transfer module **20C**, an input device interface **20D**, an audit/reporting module **20E**, a communication module **20F**, an operating system kernel **20G** and a random number generator **20H**. The player tracking module **20B** keeps track of the play of a player. The electronic funds transfer module **20C** communicates with a back-end server or financial institution to transfer funds to and from an account associated with the player. The input device interface **20D** interacts with input devices, such as the input device **130**, as described in more detail below. The communication module **20F** enables the gaming device **100** to communicate with remote servers and other gaming devices using various secure communication interfaces. The operating system kernel **20G** controls the overall operation of the gaming device **100**, including the loading and operation of other modules. The random number generator **20H** generates random or pseudorandom numbers for use in the operation of the hybrid games described herein.

[0050] In some embodiments, a gaming device **100** includes a personal device, such as a desktop computer, a laptop computer, a mobile device, a tablet computer or computing device, a personal digital assistant (PDA), or other portable computing devices. In some embodiments, the gaming device **100** may be operable over a wireless network, such as part of a wireless gaming system. In such embodiments, the gaming machine may be a hand-held device, a mobile device or any other suitable wireless device that enables a player to play any suitable game at a variety of different

locations. It should be appreciated that a gaming device or gaming machine as disclosed herein may be a device that has obtained approval from a regulatory gaming commission or a device that has not obtained approval from a regulatory gaming commission.

[0051] For example, referring to FIG. 2D, a gaming device **100** (which is a mobile gaming device **170** in this embodiment) may be implemented as a handheld device including a compact housing **105** on which is mounted a touchscreen display device **116** including a digitizer **152**. One or more input devices **130** may be included for providing functionality of for embodiments described herein. A camera **127** may be provided in a front face of the housing **105**. The housing **105** may include one or more speakers **150**. In the gaming device **100**, various input buttons described above, such as the cashout button, gameplay activation button, etc., may be implemented as soft buttons on the touchscreen display device **116** and/or input device **130**. In this embodiment, the input device **130** is integrated into the touchscreen display device **116**, but it should be understood that the input device may also, or alternatively, be separate from the display device **116**. Moreover, the gaming device **100** may omit certain features, such as a bill acceptor, a ticket generator, a coin acceptor or dispenser, a card reader, secondary displays, a bet display, a credit display, etc. Credits can be deposited in or transferred from the gaming device **100** electronically.

[0052] FIG. 2E illustrates a standalone gaming device **100** (which is an EGM **160** in this embodiment) having a different form factor from the EGM **160** illustrated in FIG. 2A. In particular, the gaming device **100** is characterized by having a large, high aspect ratio, curved primary display device **116** provided in the housing **105**, with no secondary display device. The primary display device **116** may include a digitizer **152** to allow touchscreen interaction with the primary display device **116**. The gaming device **100** may further include a player tracking display **142**, an input device **130**, a bill/ticket acceptor **128**, a card reader **138**, and a bill/ticket dispenser **136**. The gaming device **100** may further include one or more cameras **127** to enable facial recognition and/or motion tracking.

[0053] Although illustrated as certain gaming devices, such as electronic gaming machines (EGMs) and mobile gaming devices, functions and/or operations as described herein may also include wagering stations that may include electronic game tables, conventional game tables including those involving cards, dice and/or roulette, and/or other wagering stations such as sports book stations, video poker games, skill-based games, virtual casino-style table games, or other casino or non-casino style games. Further, gaming devices according to embodiments herein may be implemented using other computing devices and mobile devices, such as smart phones, tablets, and/or personal computers, among others.

[0054] FIG. 3 illustrates a system **300** for providing a live dealer **328** remotely at one or more gaming tables **302** in a casino environment, according to some embodiments. The system may include a plurality of remote gaming tables **302** each having a plurality of player positions **304** for a plurality of players **306**. In this example, each table **302** is a roulette table with a physical roulette wheel **308** and a common betting area **310**, but it should be understood that other types game tables may be used to provide different types of table games, as desired. Each table **302** includes a controller **312** connected to a network **314** for receiving display information for displaying real-time three dimensional (e.g., holographic) video of a live dealer **328** on a holographic display device **316**. Each table **302** may include one or more audio output devices **318** and/or audio input devices **320** for facilitating one-way or two-way communication between the players **306** and the dealer **328** and/or other audio features, such as music and/or sound effects. The gaming tables **302** may be connected to each other directly and/or via one or more servers on a local network **322** (e.g., casino property network) and/or via the larger network **314** (e.g., operator network, Internet, etc.).

[0055] In this example, the live dealer **328** may be remotely located at a dealer location **326**, which may be any network accessible location, as desired. The dealer location may include a streaming controller **330** and one or more video capture devices **332** for capturing the video of the live dealer

328 and providing the display information to the remote gaming tables **302** via the network **314**. As with the tables **302**, the dealer location may include one or more audio output devices and/or audio input devices for facilitating one-way or two-way communication between the players **306** and the dealer **328**. The controller **330** may include an input device **338** for providing instructions and/or information relating to wagering games to the remote gaming tables **302**. The dealer location **326** may be connected to other dealer locations directly and/or via one or more servers on a local network **342** and/or via the larger network **314**. In some examples, the local network **342** may also include a video stream editing interface **344** for pre-processing, editing, and/or otherwise modifying the display information before transmitting the display information to the remote gaming tables **302**.

[0056] In some embodiments, the one or more video capture devices **332** may capture a real-time three-dimensional recording of the dealer **328** to generate realistic virtual appearance for the dealer **328**. The video stream may be modified to alter background content, clothes, features, etc. of the dealer **328**. Communication via the network **342** may be via wired or wireless interfaces at the dealer location **326** and/or gaming tables **302**, with appropriate encryption and/or other security measures. In some examples, the dealer **328** may interact with different tables **302** simultaneously and/or separately (e.g., in turn).

[0057] In some examples, the gaming tables **302** may provide physical table games and/or virtual table games (e.g., via an electronic table game). This may allow players **306** to participate with a single dealer **328** from different locations, such as within a casino at a physical or virtual table, and/or remotely, e.g., via a computing or mobile device. In some examples, physical elements such as the physical roulette wheel **308** may be replicated on other remote gaming tables **302**.

Alternatively, or in addition, different tables **302** may have different elements and/or interactions, such as different wheel **308** results, which may be managed and coordinated by the dealer **328** for example.

[0058] In some examples, game information for a wagering game at a remote gaming table **302** is received from the remote gaming table **302**. An image capture device, e.g., capture device **332**, may capture live actions by a live dealer **328** (e.g., at a remote dealer location **326**) for the wagering game. Image information (such as a three-dimensional live holographic image) based on the captured live actions may be transmitted to the remote gaming table **302** to provide a live holographic image of the dealer **328** at the remote gaming table **302**. In some examples, the live holographic image of the dealer **328** may include a three-dimensional animated avatar of the dealer **328**.

[0059] Game input may be received from the dealer **328** by an input device **338**, and game instructions based on the game input may be transmitted to the remote game table **302** to execute game actions at the remote gaming table **302** to generate a game result for the wagering game. In some examples, the game instructions may include instructions to confirm a winning game result for the wagering game to initiate payment of a game award to a player of the wagering game.

[0060] In some examples, the remote gaming table **302** may include a plurality of gaming tables **302**, with game information and game instructions for game actions for different wagering games at the different gaming tables **302** being communicated between the dealer **328** and the different gaming tables **302**.

[0061] In some examples, audio information from the remote gaming table corresponding to voice communication from a player of the wagering game may be played by an audio output device **334** and second audio information from the live dealer **328** corresponding to voice communication from the live dealer **328** may be received via an audio input device **336** for transmission to the remote gaming table **302** for playback at the remote gaming table **302**. These and other features may facilitate interaction between the live dealer **328** and the players at the remote gaming table **302**, such as audio communication, visual communication, written communication (e.g., text or graphical messages), and/or financial transactions such as a player betting on behalf of the dealer

328 and/or providing a gratuity or tip.

[0062] In some examples, players may be able to indicate particular live dealers as preferred dealers, for example, by storing the dealers in a preferences associated with a player account. In some examples, the player may be able to view a preferred dealer's schedule and/or availability, and/or may receive a notification (e.g., a phone alert) when a preferred dealer is working and/or available.

[0063] FIG. 4 illustrates a system **400** for providing multiple live dealers **428** remotely via a combined stream at the same gaming table **402** in a casino environment, according to some embodiments. The table **402** includes a controller **412** connected to a network **414**, one or more audio output devices and/or audio input devices, and a display device **416**.

[0064] In this example, multiple live dealers **428** may be remotely located at a single dealer location **426**, including a streaming controller **430**, one or more audio output devices and/or audio input devices, and one or more video capture devices **432** for capturing the video of the live dealer **428** and providing the display information to the remote gaming table **402** via the network **414**.

[0065] In this example, a single stream with both dealers **428** may be transmitted from the dealer location **426** to the one or more remote gaming tables **402**. For example, the streaming controller **430** may process the video and/or audio for both dealers **428**, add additional content, such as virtual content and/or informational content, and combine these and/or other elements into a single stream, e.g., with different active audio content based on which dealer **428** is speaking for example. For example, both dealers **428** may be visualized next to each other, talking to each other, etc. and are visible on one holographic display device **416** at each remote gaming table **402**.

[0066] FIG. 5 illustrates a system **500** for providing multiple live dealers **528** remotely from different remote dealer locations **526** in separate streams at the same gaming table **502** in a casino environment, according to some embodiments. The table **502** includes a controller **512** connected to a network **514**, one or more audio output devices and/or audio input devices, and a display device **516**.

[0067] In this example, multiple live dealers **528** may be remotely located at different dealer locations **526**, each including a streaming controller **530**, one or more audio output devices and/or audio input devices, and one or more video capture devices **532** for capturing the video of each live dealer **528** and providing the display information to the remote gaming table **502** via the network **514**.

[0068] In this example, both dealers **528** may be visible at the display device **516** at the same time, and may be displayed independently from each other, interacting with each other and/or the players **506**, switching back and forth, e.g., in response to game events associated with the different dealers **528**, and/or based on player input, e.g., selecting a single dealer **528** from a group of available dealers **528**.

[0069] FIG. 6 illustrates a system **600** for providing multiple live dealers **628** remotely from different remote dealer locations **626** in separate streams for different games being played simultaneously by different players **606** at the same gaming table **602** in a casino environment, according to some embodiments. The table **602** includes a controller **612** connected to a network **614**, one or more audio output devices and/or audio input devices, and a display device **616**.

[0070] In this example, multiple live dealers **628** associated with the different games may be remotely located at the same or different dealer locations **626**, each including a streaming controller **630**, one or more audio output devices and/or audio input devices, and one or more video capture devices **632** for capturing the video of each live dealer **628** and providing the display information to the remote gaming table **602** via the network **614**.

[0071] In this example, both dealers **628** may be visible at the display device **616** at the same time. Alternatively, different dealers **628** may be displayed at personal display devices **617** associated with individual players **606** based on which game each player **606** is playing. Each personal display device **617** may also be associated with an individual audio device **621**, such as an individual audio

output device, e.g., headphones, and/or individual audio input device, e.g., microphone, so that each player **606** can interact with a particular dealer **628** associated with a particular wagering game. In some examples, each player **606** may provide input for interacting with specific dealers **628**, such as via a push-to-talk button. In some examples, the personal display device **617** and/or audio devices **621** may be provided via a mobile computing device interface, such as a phone associated with the player **606**. In some examples, the personal display device **617** may be a terminal integrated into the gaming table **602**. In some examples, personal display devices **617** may be shared among a subset of the players **606** at the table **602**.

[0072] In this example, the different wagering games may be different instances of the same game type or may be different types of games, e.g., roulette and blackjack for example. In this manner, two different games may be played independently and in parallel at the same game table **602**, allowing for different groups of players **606**.

[0073] In some examples, the controller **612** may transmit, to different remote dealer locations **626**, game information for different wagering games associated with different players **606** at the gaming table **602**, and may receive, from the remote dealer locations **626**, image information based on captured live actions of the live dealers **628**. In some examples, wagering games may be different instances of the same wagering game type, or may be different game types. The display device **616** may display, based on the image information, live holographic images of the dealers **628** at the gaming table **602**. The controller **612** may also receive, from the remote dealer location **626**, game instructions based on game input received from the live dealers **628** and execute, based on the game instructions, game actions at the gaming table **602** to generate game results for the different wagering game.

[0074] In some examples, the remote dealer location **626** may be a single location with both dealers **628** or may be different locations **626** with a different dealer **628** at each location **626**.

[0075] FIG. 7 illustrates a system **700** for a remote dealer **728** remotely controlling physical game objects **707** (e.g., a physical roulette wheel **708** in this example), according to some embodiments. In this example, the dealer **728** may remotely control the objects via an input device **738** at the remote dealer location **726**. In this manner aspects of a physical table game having a plurality of physical game objects **707** may be controlled, with the game instructions including instructions to manipulate the physical game objects **707** at the remote gaming table **702** to generate the game result. For example, the instructions may cause a physical roulette wheel **708** at the remote gaming table **702** to spin, or may cause a card dealing device to deal a physical playing card at the remote gaming table **702**, in some embodiments.

[0076] FIG. 8 illustrates a system **800** for a remote dealer **828** streaming an image of a physical game object **807** (such as a physical roulette wheel **808**) to the remote gaming table **802**, according to some embodiments. In this example, the video capture device **832** (or another capture device) at the remote dealer location **826** may also capture an image of the game object **807** and include the real time captured image of the object **807** in the stream that is displayed at a display device **816** at the remote gaming table **802**. The streaming controller **830** may also detect a state of the object **807** (e.g., the wedge in which the roulette ball lands) and include the spin result in the stream. The stream of the dealer **828** and the object **807** may be a combined stream or separate streams, as desired, e.g., based on security, bandwidth, or other criteria for example.

[0077] FIG. 9 is a flowchart illustrating operations **900** of systems/methods for facilitating embodiments described herein. The operations **900** may be performed by one or more processor circuits of one or more computing devices, such as any of the computing devices described herein, for example. The operations **900** may include receiving, from a remote gaming table, game information for a wagering game at the remote gaming table (Block **902**). The operations **900** may further include capturing, by an image capture device, live actions by a live dealer for the wagering game (Block **904**). The operations **900** may further include transmitting, to the remote gaming table, image information based on the captured live actions to provide a live holographic image of

the dealer at the remote gaming table (Block **906**). The operations **900** may further include receiving, by an input device, game input from the live dealer (Block **908**). The operations **900** may further include transmitting, to the remote gaming table, game instructions based on the game input to execute game actions at the remote gaming table to generate a game result for the wagering game (Block **910**).

[0078] FIG. **10** is a flowchart illustrating operations **1000** of systems/methods for facilitating embodiments described herein. The operations **1000** may be performed by one or more processor circuits of one or more computing devices, such as any of the computing devices described herein, for example. The operations **1000** may include transmitting, to a remote dealer location, game information for a wagering game at a gaming table (Block **1002**). The operations **1000** may further include receiving, from the remote dealer location, image information based on captured live actions of a live dealer (Block **1004**). The operations **1000** may further include displaying, based on the image information, a live holographic image of the dealer at the gaming table (Block **1006**). The operations **1000** may further include receiving, from the remote dealer location, game instructions based on game input received from the live dealer (Block **1008**). The operations **1000** may further include executing, based on the game instructions, game actions at the gaming table to generate a game result for the wagering game (Block **1010**).

[0079] Embodiments described herein may be implemented in various configurations for gaming devices **100**, including but not limited to: (1) a dedicated gaming device, wherein the computerized instructions for controlling any games (which are provided by the gaming device) are provided with the gaming device prior to delivery to a gaming establishment; and (2) a changeable gaming device, where the computerized instructions for controlling any games (which are provided by the gaming device) are downloadable to the gaming device through a data network when the gaming device is in a gaming establishment. In some embodiments, the computerized instructions for controlling any games are executed by at least one central server, central controller or remote host. In such a “thin client” embodiment, the central server remotely controls any games (or other suitable interfaces), and the gaming device is utilized to display such games (or suitable interfaces) and receive one or more inputs or commands from a player. In another embodiment, the computerized instructions for controlling any games are communicated from the central server, central controller or remote host to a gaming device local processor and memory devices. In such a “thick client” embodiment, the gaming device local processor executes the communicated computerized instructions to control any games (or other suitable interfaces) provided to a player. [0080] In some embodiments, a gaming device may be operated by a mobile device, such as a mobile telephone, tablet or other mobile computing device. For example, a mobile device may be communicatively coupled to a gaming device and may include a user interface that receives user inputs that are received to control the gaming device. The user inputs may be received by the gaming device via the mobile device.

[0081] In some embodiments, one or more gaming devices in a gaming system may be thin client gaming devices and one or more gaming devices in the gaming system may be thick client gaming devices. In another embodiment, certain functions of the gaming device are implemented in a thin client environment and certain other functions of the gaming device are implemented in a thick client environment. In one such embodiment, computerized instructions for controlling any primary games are communicated from the central server to the gaming device in a thick client configuration and computerized instructions for controlling any secondary games or bonus functions are executed by a central server in a thin client configuration.

[0082] The present disclosure contemplates a variety of different gaming systems each having one or more of a plurality of different features, attributes, or characteristics. It should be appreciated that a “gaming system” as used herein refers to various configurations of: (a) one or more central servers, central controllers, or remote hosts; (b) one or more gaming devices; and/or (c) one or more personal gaming devices, such as desktop computers, laptop computers, tablet computers or

computing devices, PDAs, mobile telephones such as smart phones, and other mobile computing devices.

[0083] In certain such embodiments, computerized instructions for controlling any games (such as any primary or base games and/or any secondary or bonus games) displayed by the gaming device are executed by the central server, central controller, or remote host. In such “thin client” embodiments, the central server, central controller, or remote host remotely controls any games (or other suitable interfaces) displayed by the gaming device, and the gaming device is utilized to display such games (or suitable interfaces) and to receive one or more inputs or commands. In other such embodiments, computerized instructions for controlling any games displayed by the gaming device are communicated from the central server, central controller, or remote host to the gaming device and are stored in at least one memory device of the gaming device. In such “thick client” embodiments, the at least one processor of the gaming device executes the computerized instructions to control any games (or other suitable interfaces) displayed by the gaming device.

[0084] In some embodiments in which the gaming system includes: (a) a gaming device configured to communicate with a central server, central controller, or remote host through a data network; and/or (b) a plurality of gaming devices configured to communicate with one another through a data network, the data network is an internet or an intranet. In certain such embodiments, an internet browser of the gaming device is usable to access an internet game page from any location where an internet connection is available. In one such embodiment, after the internet game page is accessed, the central server, central controller, or remote host identifies a player prior to enabling that player to place any wagers on any plays of any wagering games. In one example, the central server, central controller, or remote host identifies the player by requiring a player account of the player to be logged into via an input of a unique username and password combination assigned to the player. It should be appreciated, however, that the central server, central controller, or remote host may identify the player in any other suitable manner, such as by validating a player tracking identification number associated with the player; by reading a player tracking card or other smart card inserted into a card reader (as described below); by validating a unique player identification number associated with the player by the central server, central controller, or remote host; or by identifying the gaming device, such as by identifying the MAC address or the IP address of the internet facilitator. In various embodiments, once the central server, central controller, or remote host identifies the player, the central server, central controller, or remote host enables placement of one or more wagers on one or more plays of one or more primary or base games and/or one or more secondary or bonus games, and displays those plays via the internet browser of the gaming device.

[0085] It should be appreciated that the central server, central controller, or remote host and the gaming device are configured to connect to the data network or remote communications link in any suitable manner. In various embodiments, such a connection is accomplished via: a conventional phone line or other data transmission line, a digital subscriber line (DSL), a T-1 line, a coaxial cable, a fiber optic cable, a wireless or wired routing device, a mobile communications network connection (such as a cellular network or mobile internet network), or any other suitable medium. It should be appreciated that the expansion in the quantity of computing devices and the quantity and speed of internet connections in recent years increases opportunities for players to use a variety of gaming devices to play games from an ever-increasing quantity of remote sites. It should also be appreciated that the enhanced bandwidth of digital wireless communications may render such technology suitable for some or all communications, particularly if such communications are encrypted. Higher data transmission speeds may be useful for enhancing the sophistication and response of the display and interaction with players.

[0086] In the above description of various embodiments, various aspects may be illustrated and described herein in any of a number of patentable classes or contexts including any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement

thereof. Accordingly, various embodiments described herein may be implemented entirely by hardware, entirely by software (including firmware, resident software, micro-code, etc.) or by combining software and hardware implementation that may all generally be referred to herein as a "circuit," "module," "component," or "system." Furthermore, various embodiments described herein may take the form of a computer program product including one or more computer readable media having computer readable program code embodied thereon.

[0087] Any combination of one or more computer readable media may be used. The computer readable media may be a computer readable signal medium or a computer readable storage medium. A computer readable storage medium may be, for example, but not limited to, an electronic, magnetic, optical, electromagnetic, or semiconductor system, apparatus, or device, or any suitable combination of the foregoing. More specific examples (a non-exhaustive list) of the computer readable storage medium would include the following: a portable computer diskette, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or Flash memory), an appropriate optical fiber with a repeater, a portable compact disc read-only memory (CD-ROM), an optical storage device, a magnetic storage device, or any suitable combination of the foregoing. In the context of this document, a computer readable storage medium may be any medium that can contain, or store a program for use by or in connection with an instruction execution system, apparatus, or device.

[0088] A computer readable signal medium may include a propagated data signal with computer readable program code embodied therein, for example, in baseband or as part of a carrier wave. Such a propagated signal may take any of a variety of forms, including, but not limited to, electromagnetic, optical, or any suitable combination thereof. A computer readable signal medium may be any computer readable medium that is not a computer readable storage medium and that can communicate, propagate, or transport a program for use by or in connection with an instruction execution system, apparatus, or device. Program code embodied on a computer readable signal medium may be transmitted using any appropriate medium, including but not limited to wireless, wireline, optical fiber cable, radio frequency ("RF"), etc., or any suitable combination of the foregoing.

[0089] Computer program code for carrying out operations for aspects of the present disclosure may be written in any combination of one or more programming languages, including an object oriented programming language such as Java, Scala, Smalltalk, Eiffel, JADE, Emerald, C++, C#, VB.NET, Python or the like, conventional procedural programming languages, such as the "C" programming language, Visual Basic, Fortran 2003, Perl, Common Business Oriented Language ("COBOL") 2002, PHP: Hypertext Processor ("PHP"), Advanced Business Application Programming ("ABAP"), dynamic programming languages such as Python, Ruby and Groovy, or other programming languages. The program code may execute entirely on the user's computer, partly on the user's computer, as a stand-alone software package, partly on the user's computer and partly on a remote computer or entirely on the remote computer or server. In the latter scenario, the remote computer may be connected to the user's computer through any type of network, including a local area network (LAN) or a wide area network (WAN), or the connection may be made to an external computer (for example, through the Internet using an Internet Service Provider) or in a cloud computing environment or offered as a service such as a Software as a Service (SaaS).

[0090] Various embodiments were described herein with reference to flowchart illustrations and/or block diagrams of methods, apparatus (systems), devices and computer program products according to various embodiments described herein. It will be understood that each block of the flowchart illustrations and/or block diagrams, and combinations of blocks in the flowchart illustrations and/or block diagrams, can be implemented by computer program instructions. These computer program instructions may be provided to a processing circuit of a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions, which execute via the processing circuit of the computer or

other programmable instruction execution apparatus, create a mechanism for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks.

[0091] These computer program instructions may also be stored in a computer readable medium that when executed can direct a computer, other programmable data processing apparatus, or other devices to function in a particular manner, such that the instructions when stored in the computer readable medium produce an article of manufacture including instructions which when executed, cause a computer to implement the function/act specified in the flowchart and/or block diagram block or blocks. The computer program instructions may also be loaded onto a computer, other programmable instruction execution apparatus, or other devices to cause a series of operations to be performed on the computer, other programmable apparatuses or other devices to produce a computer implemented process such that the instructions which execute on the computer or other programmable apparatus provide processes for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks.

[0092] The flowchart and block diagrams in the figures illustrate the architecture, functionality, and operation of possible implementations of systems, methods, and computer program products according to various aspects of the present disclosure. In this regard, each block in the flowchart or block diagrams may represent a module, segment, or portion of code, which includes one or more executable instructions for implementing the specified logical function(s). It should also be noted that, in some alternative implementations, the functions noted in the block may occur out of the order noted in the figures. For example, two blocks shown in succession may, in fact, be executed substantially concurrently, or the blocks may sometimes be executed in the reverse order, depending upon the functionality involved. It will also be noted that each block of the block diagrams and/or flowchart illustration, and combinations of blocks in the block diagrams and/or flowchart illustration, can be implemented by special purpose hardware-based systems that perform the specified functions or acts, or combinations of special purpose hardware and computer instructions.

[0093] The terminology used herein is for the purpose of describing particular aspects only and is not intended to be limiting of the disclosure. As used herein, the singular forms “a”, “an” and “the” are intended to include the plural forms as well, unless the context clearly indicates otherwise. It will be further understood that the terms “comprises” and/or “comprising,” when used in this specification, specify the presence of stated features, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, steps, operations, elements, components, and/or groups thereof. As used herein, the term “and/or” includes any and all combinations of one or more of the associated listed items and may be designated as “/”. Like reference numbers signify like elements throughout the description of the figures.

[0094] Many different embodiments have been disclosed herein, in connection with the above description and the drawings. It will be understood that it would be unduly repetitious and obfuscating to literally describe and illustrate every combination and subcombination of these embodiments. Accordingly, all embodiments can be combined in any way and/or combination, and the present specification, including the drawings, shall be construed to constitute a complete written description of all combinations and subcombinations of the embodiments described herein, and of the manner and process of making and using them, and shall support claims to any such combination or subcombination.

Claims

1. A system comprising: a processor circuit; and a memory coupled to the processor circuit, the memory comprising machine-readable instructions that, when executed by the processor circuit, cause the processor circuit to: receive, from a remote gaming table, game information for a

wagering game at the remote gaming table; capture, by an image capture device, live actions by a live dealer for the wagering game; transmit, to the remote gaming table, image information based on the captured live actions to provide a live holographic image of the dealer at the remote gaming table; receive, by an input device, game input from the live dealer; and transmit, to the remote gaming table, game instructions based on the game input to execute game actions at the remote gaming table to generate a game result for the wagering game.

2. The system of claim 1, wherein the remote gaming table comprises a first remote gaming table and a second remote gaming table, wherein the game information comprises first game information for a first wagering game at the first remote gaming table and second game information for a second wagering game at the second remote gaming table, and wherein the game instructions comprise: first game instructions to execute first game actions at the first remote gaming table to generate a first game result for the first wagering game; and second game instructions to execute second game actions at the second remote gaming table to generate a second game result for the second wagering game.

3. The system of claim 1, wherein the live holographic image of the dealer comprises a three-dimensional live holographic image of the dealer.

4. The system of claim 1, wherein the live holographic image of the dealer comprises a three-dimensional animated avatar of the dealer.

5. The system of claim 1, wherein the instructions further cause the processor circuit to: play, via an audio output device, first audio information from the remote gaming table corresponding to voice communication from a player of the wagering game; receive, via an audio input device, second audio information from the live dealer corresponding to voice communication from the live dealer; and transmit the second audio information to the remote gaming table for playback at the remote gaming table.

6. The system of claim 1, wherein the remote gaming table comprises a physical table game comprising a plurality of physical game objects.

7. The system of claim 6, wherein the game instructions comprise instructions to manipulate the physical game objects at the remote gaming table to generate the game result.

8. The system of claim 7, wherein the game instructions comprise instructions to cause a physical roulette wheel at the remote gaming table to spin.

9. The system of claim 7, wherein the game instructions comprise instructions to cause a card dealing device to deal a physical playing card at the remote gaming table.

10. The system of claim 1, wherein the remote gaming table comprises an electronic gaming table, and wherein the wagering game comprises an electronic table game.

11. The system of claim 1, wherein the game instructions comprise instructions to confirm a winning game result for the wagering game to initiate payment of a game award to a player of the wagering game.

12. A system comprising: a processor circuit; and a memory coupled to the processor circuit, the memory comprising machine-readable instructions that, when executed by the processor circuit, cause the processor circuit to: transmit, to a remote dealer location, game information for a wagering game at a gaming table; receive, from the remote dealer location, image information based on captured live actions of a live dealer; display, based on the image information, a live holographic image of the dealer at the gaming table; receive, from the remote dealer location, game instructions based on game input received from the live dealer; and execute, based on the game instructions, game actions at the gaming table to generate a game result for the wagering game.

13. The system of claim 12, wherein the gaming table comprises a first gaming table and a second gaming table, wherein transmission of the game information to the remote dealer location comprises transmission of first game information for a first wagering game at the gaming table to a first remote dealer at the remote dealer location and transmission of second game information for a second wagering game at the gaming table to a second remote dealer at the remote dealer location.

- 14.** The system of claim 13, wherein the first wagering game is associated with a first player at the gaming table and the second wagering game is associated with a second player at the gaming table.
- 15.** The system of claim 13, wherein the first wagering game is a first wagering game type associated with a player at the gaming table, and the second wagering game is a second wagering game type different from the first wagering game type associated with the player at the gaming table.
- 16.** The system of claim 13, wherein the remote gaming location comprises a first remote gaming location associated with the first remote dealer and a second remote gaming location associated with a second dealer.
- 17.** The system of claim 12, wherein the live holographic image of the dealer comprises a three-dimensional live holographic image of the dealer.
- 18.** The system of claim 12, wherein the live holographic image of the dealer comprises a three-dimensional animated avatar of the dealer.
- 19.** The system of claim 12, wherein the instructions further cause the processor circuit to: receive, via an audio input device, first audio information corresponding to voice communication from a player of the wagering game; transmit the first audio information to the remote dealer location for playback at the remote dealer location; and play, via an audio output device, second audio information from the remote dealer location corresponding to voice communication from the live dealer.
- 20.** A method comprising: receiving, from a remote gaming table, game information for a wagering game at the remote gaming table; capturing, by an image capture device, live actions by a live dealer for the wagering game; transmitting, to the remote gaming table, image information based on the captured live actions to provide a live holographic image of the dealer at the remote gaming table; receiving, by an input device, game input from the live dealer; and transmitting, to the remote gaming table, game instructions based on the game input to execute game actions at the remote gaming table to generate a game result for the wagering game.
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