



## **Introducing the new OPTIKA Scorer**

OPTIKA, the fully automatic scoring system. A technologically advanced, sturdy and maintenance free Swiss quality product. As a further development of the legendary BMS Scoregraphic and thank the most modern electronic and the smart programming, Optika offers unparalleled features and advantages. The modular electronic control unit enables Optika to be optimally and most economically connected to practically all brands of pinsetters with strings or without strings. Following the slogan: “Creating smart devices to serve and not to be serviced”, BMS made special efforts to render Optika maintenance free.

The design is simple and logical and therefore also for non skilled persons easy to understand. An accurate instruction manual makes the installation, the wiring, the connections to the pinsetter and the calibration of the Optika so easy, that it may be managed by the house technicians. Of course, our accessible Hotline is always available for any assistance! This means a consistent cost saving for the customer since many expensive working hours by foreign technicians may be avoided.

## **Optika features**

Optika is compatible to almost all brands of pinsetters. For those with strings and for the GS-xx types, the data are detected potential free directly from their control unit and processed by a special interface, for those without strings a special CCD camera by BMS is used for a very accurate data acquisition. The CCD camera is equipped with one linear sensor per lane featuring a very high resolution, which, together with the smart electronics, enables the detection even of shifted and partly covered pins!

## **Score display**

Optika clearly displays the scores on any kind of overheads - CRT, LCD or Plasma – of any size, with standard or VGA resolution, or on TV sets, via SCART connection with RGB or FBAS or US TV signal.

## **"Stand-alone" concept**

This feature enables Optika to be fully functional starting from one single lane up to centers with indefinite number of lanes. The vandalen proof, durable, sturdy and ergonomic console, designed to not be used as cigarettes or beverages disposal, has an integrated, solid keyboard, which - together with a smart software – renders the input of all games and player’s data very easy. OPTIKA already "speaks" beside German also English, Français, Italiano and Dutch. Further languages may easily be implemented upon request. Even without console is Optika fully functional: with this option, the desk computer controls the game’s and player’s entries of each lane.

## **Grafics, 3D Animations, Commercials**

The very large memory of 40 or more gigabytes of each lane computer offers space for heaps of animations and graphics to be displayed on specific events like Strike, Spare, Gutter, Foul..etc. Furthermore, different “graphics folders” with special graphics contents, e.g. for children’s birthday

parties, for adult's bowling clubs, for special entertainments etc. may easily be selected and activated by each pair of lanes!

In addition to the above, every OPTIKA user may create his own graphics and animations by means of easy to use software. Commercial clips displayed during the down time of lanes may become a nice source of income! The graphics upload to the lane computers is easy since all Optika have an integrated FTP server, which is accessible from the desk computer by any FTP program (e.g. InternetExplorer)

### **Automatic updates, Internet- or online support**

The optional network-connection of all lane computers with the desk computer and with the Internet offers the opportunity of getting online support and automatic software updates. The well-known software "PC Anywhere" from Symantec offers a convenient way for remote diagnostics in case of emergency.

### **Center Control System CCS2000**

The front desk software CCS2000 (Center Control System) available for WINXP, WIN2000, and WIN98, is very flexible and may be configured to meet the requirements of each specific center. Different rates per ball, per frame, per game or per minute, during different time periods for the different week days or for special dates may be programmed as well as discounts etc. Also up to 999 fixed amounts are programmable. Further features as score correction, lane transfer, lane parking, waiting list, league archive etc. are integrated. CCS2000 runs on commercial PC and the invoices, manager reports and the score sheets are printed out on any printer. An optional receipt printer and a cash drawer is supported.

Tournament\* software for the automatic management of bowling leagues is also available. This program is compatible to the "League Secretary" by Treasure Software.

\*) Runs under WIN98 only.

### **ABUNDANT GAME OPTIONS:**

- OPEN with up to 18 players with automatic distribution for optimum visibility on the screen.
- OPEN with NO TAP 7, 8 and 9: if 7 or 8 or 9 pins have fallen, Strike is displayed and credited. The pinsetter sets up newly.
- OPEN GAMES. Special layout on the screen for the display of several games per players. At all Open score sheets the active player is displayed nominally and his score is emphasized by a different colour and larger size.
- BINGO: Game of skill with a pyramid of numbers. Who first fills the pyramid with matching scores, wins the game. This game is difficult and exciting!
- PYTHON: Game of skill with a chain of numbers. Who first fills a chain of connected links with corresponding scores, wins the game. It is very difficult from the beginning on!
- GRAND PRIX: Motor races where the score of each ball determines the speed of the car and thus the victory!
- DERBY: Horse races where the good throws determine the galloping pace of the racehorses!
- BLACK JACK
- DART
- LEAGUE: Tournament game for two teams with up to 5 players. It is played on two lanes alternatively after each frame. The active player is displayed nominally and his score is emphasized by a different colour and a larger size. The score sheet on the screen follows the players.
- SINGLE TOURNAMENT A: Displays three games of one player per lane .
- SINGLE TOURNAMENT B: Displays one game of two players per lane.
- SINGLE TOURNAMENT C: Displays three games of two players per lane.

- EUROLEAGUE: Tournament game for 2 teams with up to 5 players. It is played on two lanes, however without alternation. The active player is displayed nominally with the indication of the lane to play on and his score is emphasized by a different colour and a larger size.
- MOONLIGHT: Tournament game for one player per lane, without alternation. Three STRIKES are preset. Optional STRIKES may be set on arbitrary frames. Display of 5 games while the active game is emphasized by a different colour and a larger size.

### **COMPLETE ON SCREEN INFORMATION**

- The language of the on screen instructions is selectable through keystroke: German, English, Français, Italiano and Dutch. Other languages upon request as an option.
- Easy-to-use software for the calibration of the CCD camera allows quick checking and diagnosis of the pin fall measuring system.
- Simple programming of the set up of the scorer to match the requirements of the different pinsetters cares for an optimal performance and detecting accuracy.

#### **... further display features at OPEN:**

- Up to three initials of all players names and full name of the active player.
- Scores (4-digits) of the prior game - series.
- Ordinal number of the running game.

#### **... and at LEAGUE:**

- Up to three initials and full name of the active player.
- Scores (4-digits) of the prior game - series.
- Player - Handicap (2-digits).
- Team total (4-digits).
- Handicap - Total of the team.
- Ordinal number of the running game.
- Respective team - partial total.

#### **... furthermore at OPEN and at LEAGUE:**

- SPLIT and FOUL.
- Ball speed with 2 digits and one decimal after the comma in Km/h or Mph.
- SPAREMAKER. After the first throw a flashing arrow indicates the optimal ball direction to clear the remaining pins.
- INFORMATIONSLINE, freely programmable for advertising, communications, partial ranking at tournaments etc. The length of the text is arbitrary.
- ZOOM - function. Display of the score sheet with all or only with 5 frames.
- INSTRUCTION MANUAL condensed on several pages to be displayed on screen any time by request.

#### **... and generally:**

- COLOUR COMBINATIONS for the Score sheet are countless and freely programmable. The colour of all elements of the score sheet may be selected and adjusted.
- The display of the Ball Speed, of the Spare Makers and generally of the graphics is programmable: display at OPEN only, at LEAGUE only, at OPEN and LEAGUE or altogether never.

### **Scope of the standard delivery:**

Console complete with keyboard in the desired language, Pentium PC with power supply, 2 video and one communication board, then CCD-Camera, pinsetter interface, 2 colour monitors 28", casing for the monitors, 1 set low voltage-cables, 1 set installation-material.

### **Special options:**

- Key for "Service - Call": key for the request of the waiter, the mechanic etc. Optional delivery with corresponding receiving and receipting lighted keys mounted on a board for installation at the counter or in the pinsetters room.
- Optional Printer: Installed in the console. Prints automatically the score sheets at the end of the game, or by request at the console, or by remote control from the front desk.
- APS - Circuitry for the fully automatic trigger control of AMF-Pinspotters (82-70 and 82-90xx). Faster triggering, no "slow ball" - problems, no cycle when gutter ball and in case of the fall of pin 7 or 10, half cycle at Strike. Reduces wear and respotting time!
- SMART BOY console with integrated LCD-14" monitor and keypad. One console per lane displaying the same score sheet as the overheads.
- SMART BOY console with integrated LCD-14" monitor displaying the score sheets of a pair of lanes. One console per pair of lanes.
- Interface board to control AMF-82-90XL pinsetters
- LAN interface for net connection of all lane PC's with the desk PC
- Different overhead monitors or TV set of any size and technology: CRT, LCD or Plasma.

OptikaE2

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