DS®

Electronic Racing Products

2006 catalogue

> Electric Model Car Racing for the Enthusiast ◖

DS ®
Electronic Racing Products

"Just imagine... We did it!"

The best range of lap counters and software for Slot races!

- High quality and universal use.
- It can be used in any track system.
- It can control from 2 to 32 track lanes.
- Get for free the "Winslot 2006" software.
- Direct connection to computer.
- 13 different competition categories.
- 4 digits per lane.
- Permanent memory function.
- Infrared sensors.
- Connection to Stop & Go box for power supply control.
- Driver control linked to DS-Card Control System.
- 3 years warranty.

> technology and simplicity at your hand.

Do you need anything else?

Professional Lap Counters

> LAP COUNTER
DS-200 PRO

- Complete lap counter for one or two lane tracks, specially for **RALLY-SLOT, ENDURANCE, GT, FORMULA 1** and **DRAGSTER RACES**, together with the starting lights "Dragster Box Set" (ref. DS-0060).
- Easy connection to our card system "DS Card Control" (ref. DS-0062).

Includes free demo software for PC!

PRO SERIES

🏁 Ref. DS-2000

PRO SERIES

[FOR ANY KIND OF SLOT TRACK]
[FOR 1 OR 2 LANES]

REMOTE RC CONTROLLER

DS developed an upgrade kit for previous DS-200 lap counters to update them with this new feature.

ℹ️ For the correct working of this lap counter you need a power supply of 12 V. maximum and at least 1 A. of direct current. We recommend the DS Power Supply – reference DS-0050.

You should also choose the sensor you want to use for the track: infrared bridge, track section with "dead section"…

Technical data

- **13 different programmes for races**: Endurance, Rally-Slot, GT, Training, F-1, Dragsters, etc….combined with the different control and track systems.
- **4 digits per lane**. Quick and easy reading of timing/laps, with only one button.
- **PERMANENT programming**. The device memorises the programming until next change (although it may be disconnected)
- It is the **only lap counter** designed for **DRAGSTER** races, together with **"Dragster Box Set"** light starting signal.
- Specific programming for **RALLY-SLOT races**:
    - **Maximum time for a section.**
    - **Shows laps/timing in seconds** during the race.
    - Once the section has finished, **the lap counter shows time recorded: seconds, tenth, hundredth and thousandth of second.**
    - **Part timing of lap.**
    - **Beep signal when last lap.**
    - **Race number programming.**
    - **It is prepared to work with intelligent chip card "DS Card Control"** (ref.DS-0062).
- **Time programming:** Maximum 10 hours. Minimum 10 seconds.
- **Lap programming:** Maximum 9999 laps. Minimum 1 lap.
- **Minimal time programming between lap and lap** in order to avoid recording more laps due to another car or object. Thus, we can programme a minimal time per lap with a close record to the average time per lap. You will be able to make motor tests with the cable V-shaped (ref.DS-0018), recording the top speed, partial timing of a particular track section.
- **Programming** the desired **car control** system: **TOTAL** or **INDEPENDENT** lanes, for any kind of race.
- **Programming the start with power on the track** (for instance, keeping an eye on the lights and penalising one lap the car passing under the bridge before the lights are red) or **without power on the track** (for instance: the traditional system where models start at the same time, due to the control of the "Stop & Go Box" (ref. DS-0021) or "PRO Stop & Go Box" (ref. DS-0061).
- **Track power control**: Cars always stop at the end of the race, due to the power cut form the "Stop & Go Box" (ref. DS-0021) or "PRO Stop & Go Box" (ref. DS-0061), if installed.
- **PAUSE option**. We can stop the race and the time record, so we can continue the race from the same point.
- **RS-232C switch** for PC connection. The cable is not supplied with the lap counter; we recommend the cable manufactured by DS, with reference DS-0052.
- **Lap counter supplied with free demo WINSLOT software.** We also supply the transmission information in order that you can produce your own software. The minimum required hardware/software is: Pentium III, with OS Windows 98 / XP, 64 MB RAM, 20 free MB in Hard Disc and COM RS-232C.
- Display of:
    - **Lap timing** of every lane when the car is crossing the sensor.
    - **Time spend or time left for the finishing** the race, during or at the end of the race.
    - **3 fastest laps time record** of each lane during or at the end of the race.
    - **Partial timing** of each lap for Rally-Slot.
    - **Total time** record at the end of the programmed laps for each lane, at the end of the race.
    - **Timing data displayed in: thousands and tenth thousands of a second.**
    - **Blinking of the winner lane.**
    - **Blinking of the best lap time record** of the race.
- **Red/green lights** for visual control of the race start.
- **Acoustic signals** for: programming, start, last lap, end of race, pause and fastest lap.
- **Connection** to our card readers **"DS Card Control"** (ref. DS-0062), with a card like the ones used at the telephones, for the control of races, drivers, track renting, etc…

Programming chart

Programme	Time Control		Track Control	
	ON	OFF	Individual	Total
P.ti (Time programme)	✓	✓		✓
P.La (Laps programme)	✓	✓	✓	✓
P.F1 (Formula 1)	✓	✓	✓	✓
P.dr (Dragsters)				
P.t (Minimum time per lane programming)				
P.r (Rally-Slot) P.rA (Rally lap programming)				
P.to (Programming the maximum time of section)				
P.do (Programming the race number)				

> LAP COUNTER
DS-300 PRO

- •Modular lap counter from 2 to 8 lanes, especially for **SPEED** and **ENDURANCE** races.
- •Lap counter especially suitable for 4 or more track lanes.
- •Easy connection to our card control system **"DS Card Control"** (ref. DS-0062).

Includes free demo software for PC!

PRO SERIES

Ref. DS-3000

[FOR ANY KIND OF SLOT TRACK]
[FOR 1 OR 2 LANES]

REMOTE RC CONTROLLER

DS developed an upgrade kit for previous DS-300 lap counters to update them with this new feature.

NEW

[EASY WIRELESS CONNECTION]

Technical data

- •**11 different programmes for races**: Endurance, Rally-Slot, GT, Training, F-1, etc… combined with the different track and control systems.
- • **4 digits per lane**. Quick and easy reading of timing and laps, with one only button.
- • **PERMANENT programming**. The device memorises the programming until next change (although it may be disconnected)
- • **Time programming**: Maximum 24 hours. Minimum 10 seconds.
- • **Lap programming**: Maximum 9999 laps. Minimum 1 lap.
- • **Minimal time programming between lap and lap** in order to avoid recording more laps due to another car or object. Thus, we can programme a minimal time per lap with a close record to the average time per lap. You will be able to make motor tests with the cable V-shaped (ref.DS-0018), recording the top speed, partial timing of a particular track section.
- • **Programming** the desired **car control** system: **TOTAL** or **INDEPENDENT** lanes, for any kind of race.
- • **Programming the start with power on the track** (for instance, keeping an eye on the lights and penalising one lap the car passing under the bridge before the lights are red) **or without power on the track** (for instance: the traditional system where models start at the same time, due to the control of the "Stop & Go Box" (ref. DS-0021) or "PRO Stop & Go Box" (ref. DS-0061).
- • **Track power control**: Cars always stop at the end of the race, due to the power cut form the "Stop & Go Box" (ref. DS-0021) or "PRO Stop & Go Box" (ref. DS-0061), if installed.
- • **PAUSE option.** We can stop the race and the time recorded, so we can continue the race from the same point.
- • **Extendable to 8 lanes** by means of 2 lane modules.
- • **RS-232C switch** for PC connection. The cable is not supplied with the lap counter; we recommend the cable manufactured by DS, with reference DS-0052.
- • **Lap counter supplied with free demo software.** We supply the transmission information in order that you can produce your own software. The minimum required hardware/software is: Pentium III, with OS Windows 98/ XP, 64 MB RAM, 20 free MB of Hard Disc and COM RS-232C.
- • Display of:
    - **Lap timing** of every lane when the car is crossing the sensor.
    - **Time spend or time left** for the finishing of the race, during or at the end of the race.
    - **3 fastest lap times** recorded for each lane during or at the end of the race.
    - **Total time** recorded at the end of the programmed laps for each lane, at the end of the race.
    - Timing data displayed in: **thousands and tenth thousands of a second.**
    - **Blinking of the winner lane.**
    - **Blinking of the best lap time record** of the race.
- • **Red/green lights** for visual control of the race start.
- • **Acoustic signals** for: programming, start, last lap, end of race, pause and fastest lap.
- • **Connection** to our card readers **"DS Card Control"** (with a card like the ones used at the telephones) for the control of races, drivers, track renting, etc…

For the correct working of this lap counter you need a power supplier of 12 V. maximum and at least 3 A. of direct current. We recommend the DS build with reference DS-0051.

You should also choose the sensor you what to use for the track: infrared bridge, track section with "dead section"…

Programming chart

Programme	Time Control		Track Control	
	ON	OFF	Individual	Total
P.ti (Time programme)	✔	✔		✔
P.La (Laps programme)	✔	✔	✔	✔
P.F1 (Fórmula 1)	✔	✔	✔	✔
P.t (Minimum time record per lap)				

DS-300 PRO

Ref. DS-3340 — **UNIT DS-300 PRO for LANES 3 and 4**

Complement for the extension of the lap counter "DS-300 PRO" into 4 lanes.
It needs main unit (lanes 1 and 2) for working.

Technical data:
- Connection to main unit "DS-300 PRO" (lanes 1 and 2) without wiring.
- Connector for lane 3 and 4 sensor.
- Connector for "STOP & GO Box" or "PRO STOP & GO Box".
- Display of data like the main unit (lanes 1 and 2).

Ref. DS-3560 — **UNIT DS-300 PRO for LANES 5 and 6**

Complement for the extension of the lap counter "DS-300 PRO" into 6 lanes.
It needs main unit (lanes 1 and 2) and second unit (lanes 3 and 4) to work.

Technical data:
- It has the same technical characteristics as the unit DS-300 PRO for lanes 3 and 4 (ref.DS-3340), but aimed at lanes 5 and 6.

Ref. DS-3780 — **UNIT DS-300 PRO for CARRILES 7 y 8**

Complement for the extension of the lap counter "DS-300 PRO" into 8 lanes.
It needs main unit (lanes 1 and 2) and second and third units (lanes 3 and 4 / lanes 5 and 6) to work.

Technical data:
- It has the same technical characteristics as the unit DS-300 PRO for lanes 3 and 4 (ref.DS-3340), but aimed at lanes 7 and 8.

Ref. DS-3000
Ref. DS-3340
Ref. DS-3560
Ref. DS-3780

REMOTE CONTROLLER

- Complete remote control for your DS-200 / DS-300 lap counter. Allow all programming and data options without wirings.
- Works with 9V. battery (not included).

Ref. DS-0075 — **DS-REMOTE CONTROL UNIT**

All DS-300 lap counting systems will be equipped during 2006 with special antenna to receive all needed signals for remote control function.

Ref. DS-0076 — **Remote control upgrade kit for DS-300.**

Ref. DS-0077 — **Remote control upgrade kit for DS-200.**

DS developed an upgrade kits for previous DS-300 and DS-200 lap counters to update them with this new feature. Includes remote controller and a new PC board to fix inside the lapcounters.

NEW

REMOTE RC CONTROLLER

PRO SERIES

> DS - 400 PRO

"SUPERTOWER"

• Large dimension display specially for **HIGH COMPETITION** tracks or **COMMERCIAL** use.
• Lap counter suitable for tracks with 4 lanes or more.

Technical data

- **For 4, 6 or 8 lanes.**
- **Large tower display** (85cm high and 48cm wide) for easy viewing of time and data. Easy and quick to read.
- The programming and displaying of data is done by **DS-300 or DS-INERFACE.**
- **Start Traffic lights:** 8 LED for red + 2 LED for green colour, big format, horizontally placed, simulating a Grand Prix start.
- **General display** (4 digits) for: time spent on the race or time left for finishing the race, left laps, programming, especial data.
- **Three displays for each lane: qualifying position, Laps and Timing.**
  - **Qualifying position** (1 digit): Shows the driver's position during the race, refreshing immediately every time the car passes the sensor.
  - **Laps** (4 digits): Shows the current lap of the cars, or the laps left to finish (when lap programming). When Formula 1 programming it shows the leader's laps and the gap of laps between the other participants and the leader.
  - **Time** (5 digits): Shows the time recorded for the last lap and the two best time recorded for the race. The displays of Lane 1 is also used for data programming.

> Ref. DS-4000   SUPER TOWER DISPLAY - For 4 lanes
> Ref. DS-4001   SUPER TOWER DISPLAY - For 6 lanes
> Ref. DS-4002   SUPER TOWER DISPLAY - For 8 lanes
> Ref. DS-4003   Extension PC-BOARD from 4 to 6 lanes
> Ref. DS-4003   Extension PC-BOARD from 6 to 8 lanes
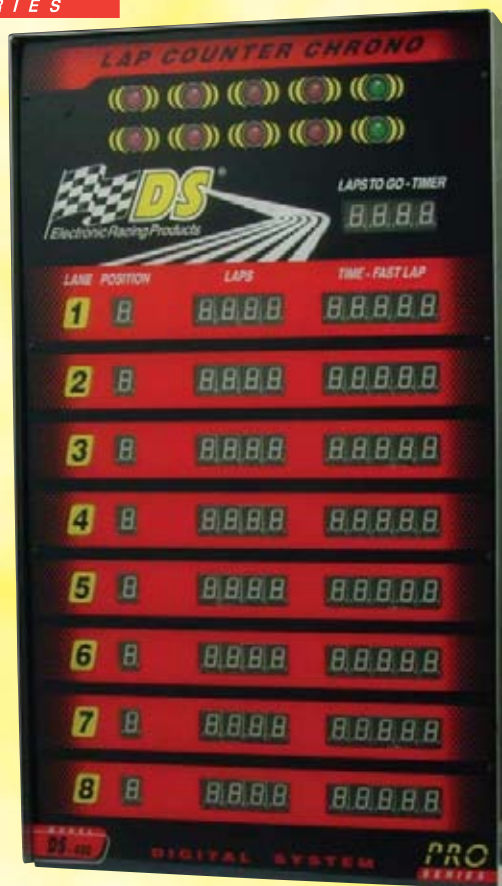
Ref. DS-4000

[FOR ANY KIND OF SLOT TRACK]
[FOR 4 TO 8 LANES]

> INTERFACE

Ref. DS-0045

NEW

Technical data

- Direct total control of the track from your personal computer (Windows 98, 2000 and XP).
- With sensor connection for 1 to 8 lanes, and connection to the control box "PRO STOP & GO Box" (ref. DS-0021) for the control of all the races.
- **"Winslot 2006"** included, this being a programme that provides all the necessary information for **the control of any race** from your PC, having a complete control of the race and obtaining printed results and data form the race with ease. The special cable for connection between INTERFACE and PC (ref. DS-0052) is included.
- **Connections:**
  - Sensor connections for track lanes 1-2, 3-4, 5-6 and 7-8.
  - "PRO STOP & GO Box" control boxes connection for track lanes 1-2, 3-4, 5-6 and 7-8.
  - PC connection through Standard 9 pin COM.

[FOR ANY KIND OF SLOT TRACK]
[FOR 1 TO 8 LANES]

**Full version "Winslot 2006" included!**

For the correct working of the INTERFACE you need a power supplier of 12 V. maximum and at least 3 A. of direct current. We recommend the DS build with reference DS-0051.

You should also choose the sensor you want to use for the track: infrared bridge, track section with "dead section"…

# > DS - START PACKS

Ref. DS-9995   **Lap counting system SCX-SCALEXTRIC for 2 lanes with infrared sensor.**

Ref. DS-9996   **Lap counting system NINCO for 2 lanes with infrared sensor.**

Ref. DS-9997   **Lap counting system CARRERA EVOLUTION - EXCLUSIVE for 2 lanes with infrared sensor.**

Ref. DS-9998   **Lap counting system SCX-SCALEXTRIC for 4 lanes with infrared sensor.**

Ref. DS-9999   **Lap counting system NINCO for 4 lanes with infrared sensor.**


PACK 2 LANES

PACK 4 LANES
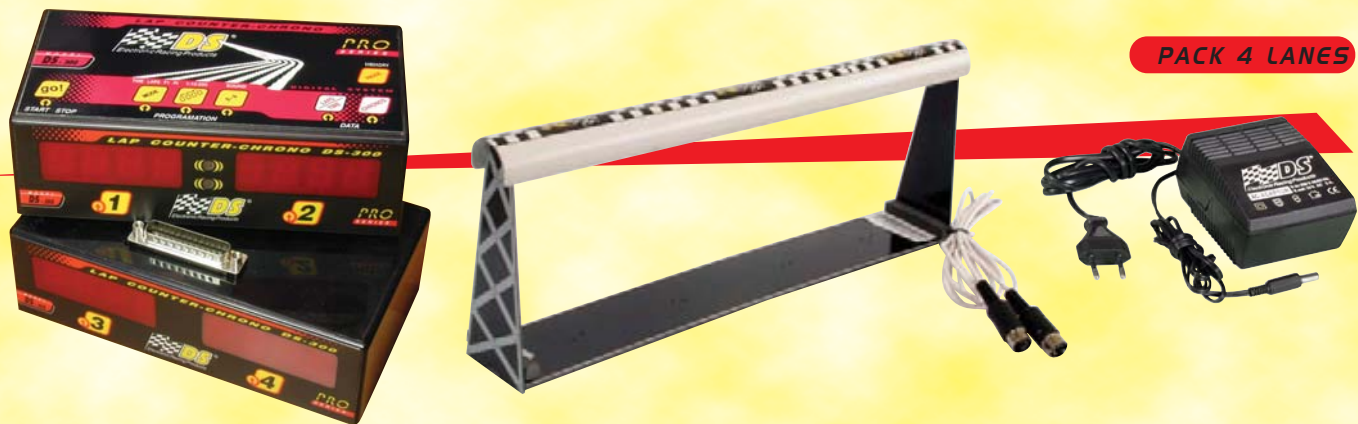
> DS - 4 PORT

> Ref. DS-0080   **DS-4PORT**

DS offer the possibility of multi track connection, with this Professional box that Allow connection from up to 4 DS lap counter into 1 sole PC serial port, this special box is needed for over 8 lane racing control in endurance competitions together with winslot 2002 software. The maximum number of lanes possible is 32 (4 tracks with 8 lanes each). It is also compatible with DS-Davic Professional system, then instead of counting laps per lanes it counts laps for each car. For it's working is needed a DS-0051 DS transformer.
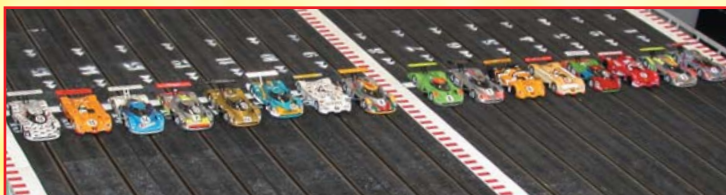
Multi lap counter connection:

Connection system DS-4PORT multi-lap counter which allows connecting 4 x DS-300 PRO, getting a total 32 lanes.

To computer

8 lanes   16 lanes   24 lanes   32 lanes
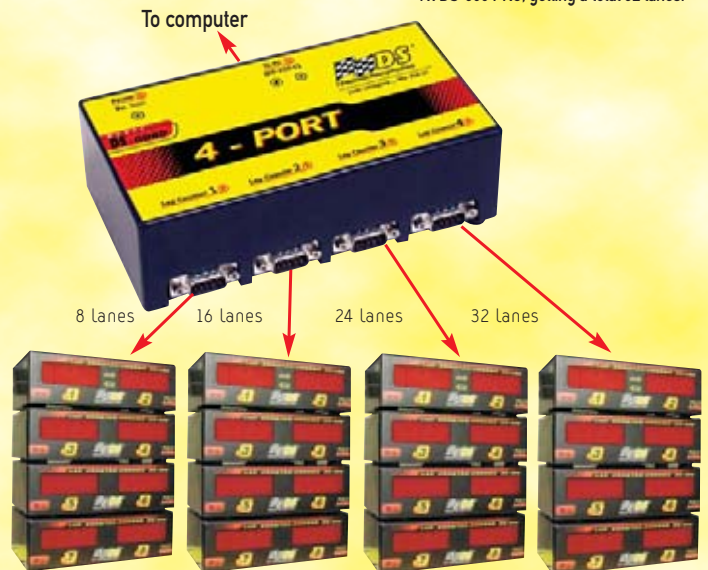
DS software allows the complete managing of clubs and races at a professional or home use.

The minimum required hardware/software for DS programmes is:
- -Pentium III.
- -OS Windows 98/ 2000 / XP.
- -64 MB RAM
- -20 free MB in Hard Disc
- -Installing of Microsoft Office (98 / 2000 / XP)
- -RS-232C comunication port.

Ref. DS-0047

> Ref. DS-0047 RALLY-SLOT REAL TIME ("R.S.R.T.")

- This programme can work without the need of a DS lap counter, entering the data to the PC with the keyboard. But it is optimised to work automatically with the control system for Rally
- Every DS lap counter includes a demo programme that can be 100% used during 12 days, after which you have to register the programme.
- Available in Spanish (other languages under development).
- DS-Card Control connection for automatic reading.

- **Programme characteristics:**
  - The drivers' data base is made with Microsoft Access allowing easy development or export to other programmes by Microsoft.
  - Special banner for advertising sponsoring.
  - Special option to define the last heat drivers.
  - To amalgamate the results of drivers from different heats and days.
  - Able to control 12 rally sections.
  - Able to control 7 classes or Groups in the same Rally.
  - Colour identifier for Scratch timing on each rally section.
  - Drivers import from Microsoft Excel file.
  - Results export to Microsoft Excel file.
  - New on-line support for updates and operation manuals at www.ibbautoracing.com

- **Detailed information of the race:**
  - Banner with every driver's data each 5 seconds.
  - General qualifying from every category with the "top-5"
  - Scratch position of every drivers heats.
 - All results can be printed.

Ref. DS-0049
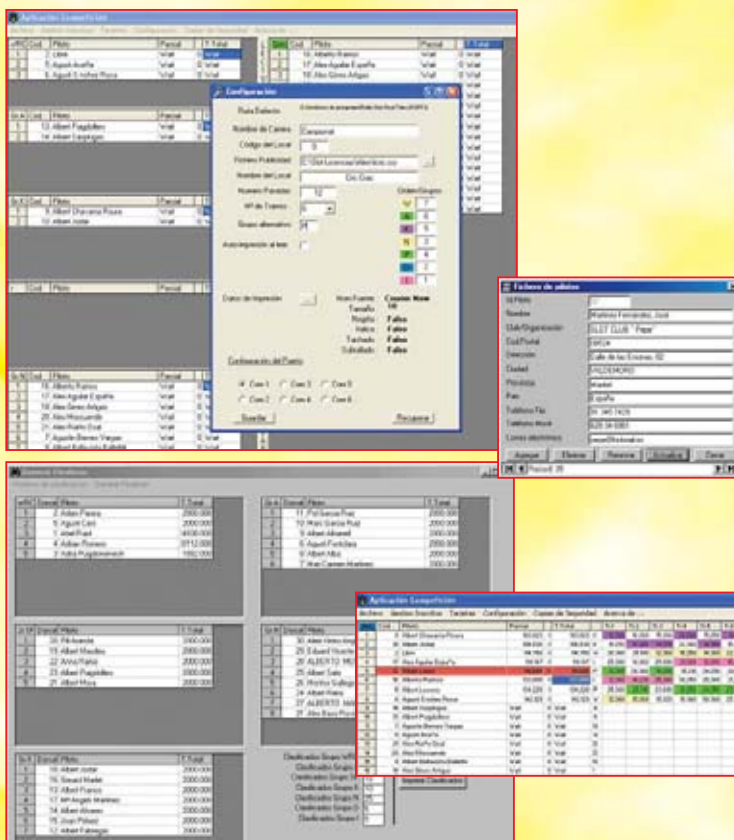
> Ref. DS-0049 DS TRACK DESSIGNER Software.

- This is an new software development and designed for DS, the new DS Track Designer is a completely easy system to design tracks of any major manufacturer including the following special characteristics:
- **Software details:**
  - Graphic view of the tack identifying with colour all different contents.
  - Drawing of 2,4,6,8 lanes tracks together.
  - Allow drawings of track pieces coming from Concept, Carrera, Ninco, Scalextric, Scalextric Digital, SCX Digital, Carrera Evolution.
  - Complete special track catalogue options on all track systems as: lane change, crosses, borders, walls, raid tracks, ice tracks, lemans start, etc…
  - Windows possibilities of various track opens at the same time and full using of copy-cut-paste options.
  - Permanent viewing of track size and length.
  - Rotation and mirror reverse options.
  - Automatic closing option.
  - Automatic addition of 2 lanes on actual design when possible.
  - Grid option for background.
  - Bring front & send back option for track pieces that over crosses.
  - Rules and background picture for exact helping on fixing separate pieces.
  - Possibility to design space with full drawing options as lines, rounds, squares…
  - Possible to set up tolerance wanted on the plastic pieces.
  - Automatic recognition of special track connections as chicanes.
  - Assembling guide piece by piece list.
  - Personal notes inside the drawing options.
  - Overall piece needed list with stock options.
  - Track layout printing and export at different scales and qualities.
  - Aproximate lap timing calculation based on own entered values.
  - Drawing system for room or maximum space available.
  - Spanish-English language.
  - Works under windows 98, 2000 and XP.
  - Track value information.
  - New on-line support for updates and operation manuals at www.ibbautoracing.com

NEW
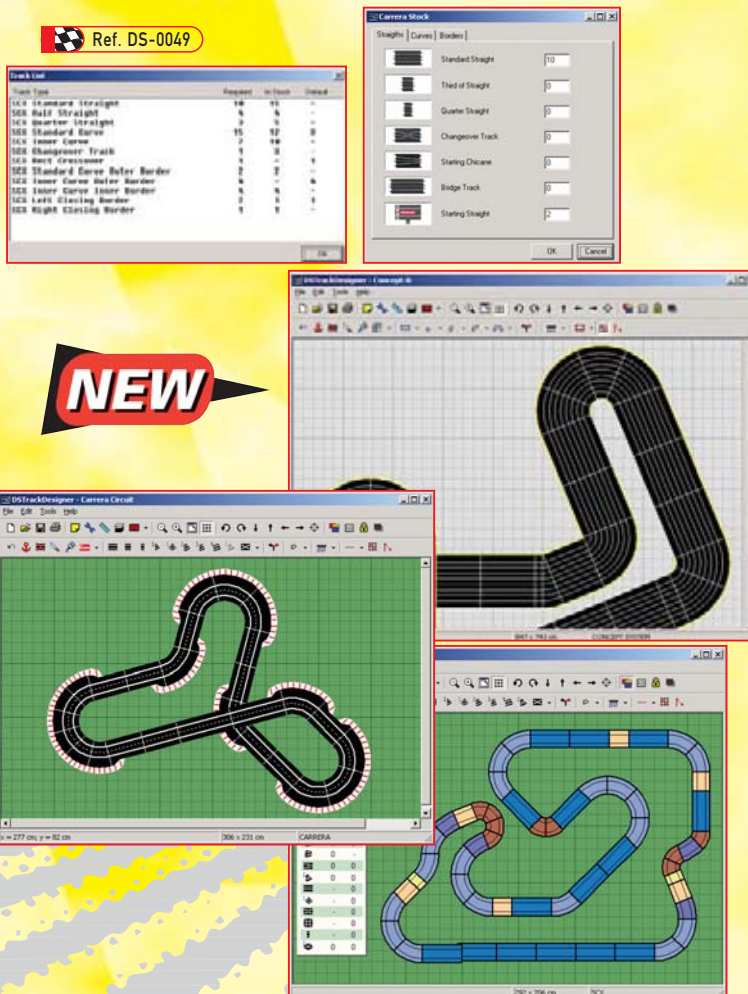
WINSLOT 2006

Winslot 2006 is the developed DS software for racing at home, club or even at international events. Tested without problems at national championships and 24h. endurance race. Can be used with all DS lap counter system for free, and register at any time to get updated versions and more features activated.

• Software to be used in any DS or INTERFACE lap counters system, in Spanish or English (easy translation sytem to French, German, Italian and Portuguese).

• All the DS-200 PRO and DS-300 PRO include a demo of the programme that can be used for quick races: introducing driver's name and recording race results. In order to have access to the full-version the programme must be registered (for registering get in contact with your distributor)

• DS-INTERFACE include a full registered version of the programme.

• You can register the programme without the need of lap counter serial number, these allows the programme to work in different tracks with lap counters of different models with only one license.

• All data is based in Microsoft Access allowing an easy development or evolution of the programme and also the export of data to other MS programmes.

• **Extendable to 32 lanes** with the new connection system **"DS-4PORT", multi-lap counter**, which allows connecting four DS-300 PRO or INTERFACE to only one computer. If multi-start system is used all lap counters can start simultaneously.

• **Programme details:**
- **Championship control.** Each one with different races and ranking points.
- **Race option.** It controls various races on the same track.
- **Track option.** It controls more than one track in the same club, with characteristics of each one: lanes, lane distance, with the possibility of racing in all of them.
- **Club data.** It controls more than one club and allows printing the information.
- **Allows the control of any race** from the DS lap counters, with the exception of Rally-Slot.
- **Allows racing individually or as team** (with more than one driver).
- **Driver profile.** To control the drivers and print the information.
- **Technical instructions for the Slot car.** It allows the control of different cars with different technical characteristics and with the possibility to test on the track.

• **Detailed information of the race:**
- Complete grid designing, allowing the movement of drivers from one heat to another.
- Qualifying options.
- Rotation option system which allows more drivers than lanes on the track.
- Team or driver that is racing on the track.
- Each team or driver position.
- Last lap time record.
- Amount of laps done.
- Time left for the end of the race.
- Lane changes done always show on screen.
- Printing all the results.
- Precise information each lap by means of statistics or graphics.
- Full new giant screen for training table results showing lap timing, best lap and num of laps for all lanes.
- Full new giant screen for race results showing overall classification from the race in large numbers.
- New race system able to repeat heats, adding laps to the previous results in the same lanes, as many times as wanted. Needed for endurance races where lanes are repeated several times.
- Drivers import from Microsoft Excel file.
- Results export to Microsoft Excel file.
- New on-line support for updates and operation manuals at www.ibbautoracing.com

DS RENT

• This programme allows the managing of club costumers by means of the DS-Card Control system in the use of tracks. A reader/recorder DS-0063 and a DS-0062 reader units minimum required.

• Available in Spanish (other languages under development).

• **Software details:**
- Drivers data files are in Microsoft Access allowing easy development or evolution of the programme and also the export to other MS programmes.
- Complete data file on every costumer including a personalised photo and control of expense.
- Allow reading and charging DS-Card from costumers.
- Allows master card programming for DS-Card readers, which includes:
  · Time zones for 4 different kinds of costumers.
  · Initial charging.
  . Reader device time.
  . General data like currency, reader device language, name of the club.

Ref. DS-0048

NEW

Ref. DS-0046
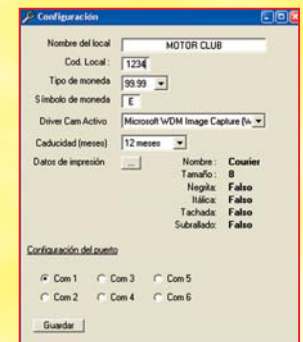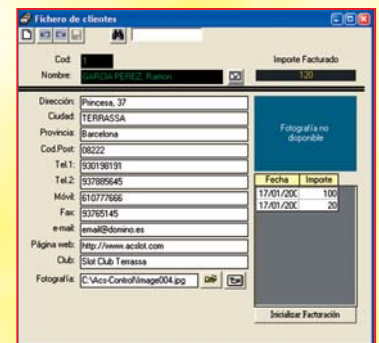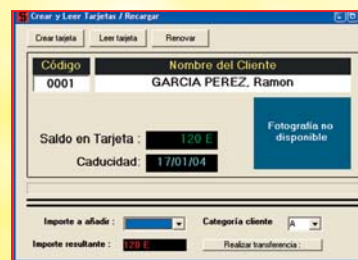
> SPEED CAR CONTROL

• System made for remote checking of the speed of a real car at a given point.
• Specially suitable for permanent circuits, car driving school training…

PRO
S E R I E S

Ref. DS-1000

Technical data

This complete system has been specially made for checking speed of a car at a given point. It shows the speed on a giant screen with three displays and also in the LCD from the "Control Unit".

This device detects the passing of a car at high and low speed at a maximum distance of 15m.

New function:
Shows three digit number that can be manualy introduced on the big screen. Usefull for drivers during a race: laps to finish, km/h record, pit lane warning, etc.

Very useful for: car driving schools, racing teams, rally and speed competitions…

Contents:
• Control unit and distance programming.
• Two sets of powerful photoelectric sensors assembled in high quality tripods.
• Two catadioptric mirrors assembled in tripods for stability.
• The display transmission and reception is made via radio to obtain the data from the sensors.
• 600 x 350mm Screen made in stainless steel with three digits made up of high luminosity LEDs.
• 2 Batteries and charger.
• Plastic box for transporting all devices (it can be completely taken apart).

Control Unit and its functions

• LCD display for programming and showing the data.
• Data transmission via radio to the giant screen.
• Programming of the distance between the photoelectric sensors (1m by default).
• Shows the last data received.
• Reset.

Photoelectrics sensors

• Connection to Control Unit by wire.
• Assembled in high quality tripods.

> POCKET CHECKER

GAUSS

DS introduces a new concept in the world of Slot; the Pocket Checker, a powerful measurement tool for motors and slot cars, great efficiency in a small size.
Ideal for enthusiasts that want to know a little more of their cars and motors, as well as for strict race directors when technical checking.
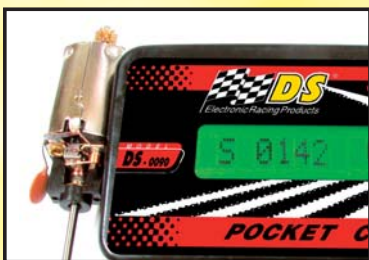
> Ref. DS-0090 **POCKET CHECKER**

Tool that checks and verifies magnet and motor GAUSS, as well as the R.P.M. of motor: it is small - hence the name "pocket".

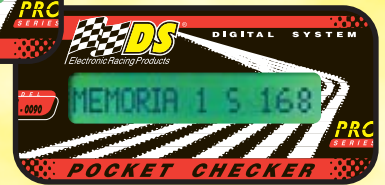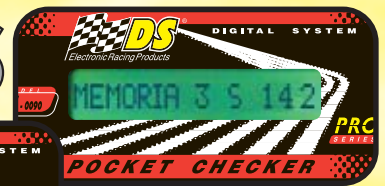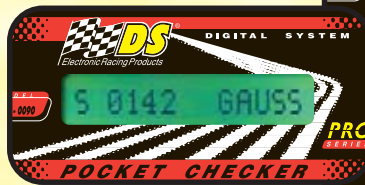Developed version with new characteristics and fixed sensors.
· In the case of the GAUSS, the fixed sensor allows an exact and calibred mesure of this motor characteristic.

R.P.M.

Technical data:
• Checks and verifies the motor or magnet GAUSS (magnet strength).
• Checks and verifies the motor R.P.M. (motor rotations per minute).
• Has 10 memories: 5 for GAUSS data and 5 for R.P.M. data recording.
• Reads from 1 to 999 magnet GAUSS.
• Reads from 1 to 50.000 motor R.P.M.
• LCD dispaly (20 digits).
• Size: length: 10 cm. width: 5 cm. and height: 2.5 cm.
• Needs a 9 V. battery (not included).

go!
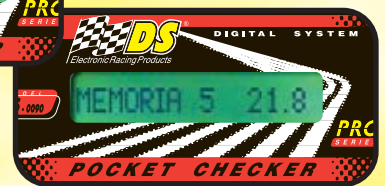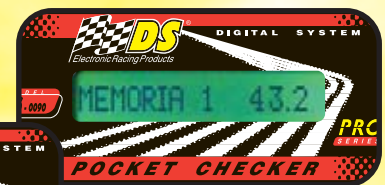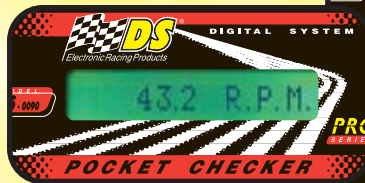
The definite tool for Slot drivers !

R.P.M. sensor

LCD display

Expandable device connection R.P.M./ CHRONO

ON / OFF button

Memory Menu

GAUSS sensor

Ref. DS-0090

> HAND CONTROLLER

NEW

Ref. DS-0083

DS Electronic products enter to the controller market with a fully electronic Controller, developed over years of tests, races and improvement at the best worldwide slot racing events.

> Ref. DS-0083 **DS PROSPEED-2 ELECTRONIC CONTROLLER**

DS developed the easiest system to set up your controller to any car or track conditions just turning the rotative prestablished switch.

• All electronic compounds are fixed directly into the DS compact connector in order to avoid loses on controller power wiring. This allows connecting directly to the DS Stop & Go boxes or with "female" DS compact connector (DS-0074) to any other system in the market.
• Preset 40 variable digital adjustments,t allows racing from rallying with S-can motor to Scale car racing with 16D motors.
• Assembled in the most common handle and used worldwide, with spare available and proof quality.
• The lighter controller in the market. With a handle that weights less than 100gr. completely assembled including all mechanicals supports, trigger functions and Selector.
• LED indicates correct function of the controller. For positive (DS standard where red is negative) track wiring systems.
• Breaking system with warranty function over 700millions uses.
• Progression curve divided in 18 fine steel long life sections.
• High sensitive Brake adjustable system from maximum to no breaking system.
• Easy adjust of braking from maximum to minimum with 10 position rotative switch.

Max. Power

PRO - SPEED Controller
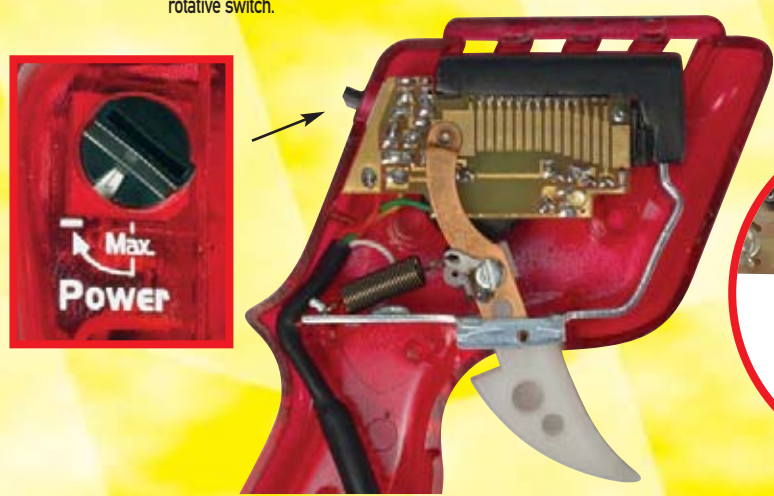
Controllers - Accessories

> Ref. DS-0024 **4 MM Ø BANANA PLUGS FOR CONTROLLER**
Three 4 mm. Ø bananas: red, black and white colours, for controller connection.

> Ref. DS-0032 **4 MM Ø BANANA "FEMALE PLUGS"**
Three 4 mm. Ø banana "female plugs": red, black and white colours, for banana "male plug" connection.

Ref. DS-0024

Ref. DS-0032

DS Adapters are delivered completely tested and includes de best materials we can find for beeing the professional solution for all customers.
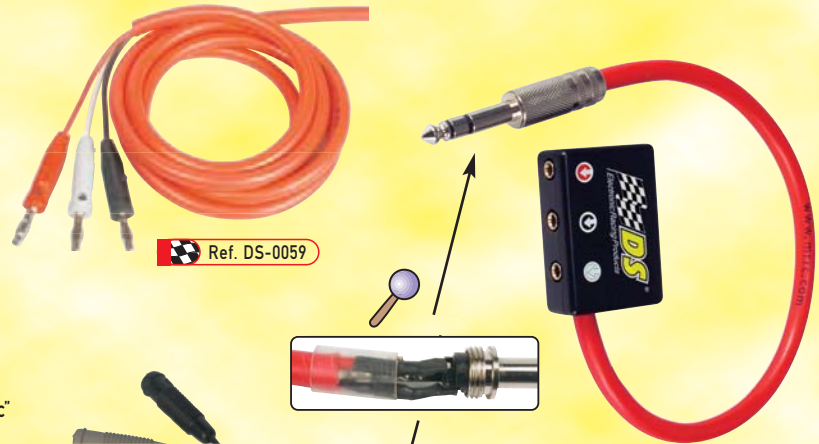
Controllers - Accessories

> Ref. DS-0010 BANANA "COMPACT CONNECTOR"
Compact connector for controllers, allows an easy and direct connection to international and Stop & Go boxes.

> Ref. DS-0011 BANANA PLUG "COMPACT CONNECTOR" WITH WIRE
Compact connector for controllers, allows an easy and direct connection to international and Stop & Go boxes. With tricolour silicon wire of 1.5 meter assembled.

> Ref. DS-0059 SILICON WIRE FOR CONTROLLER
1.5 meter with 3 coloured banana plug assembled.

> Ref. DS-0072 ADAPTER WIRE FROM BANANA PLUG TO JACK STEREO
Adapter wire from 4 mm. banana "female plug" to 6 mm. "metallic" Jack stereo.

> Ref. DS-0073 ADAPTER WIRE FROM FEMALE COMPACT CONNECTOR TO JACK STEREO
Adapter wire from 4 mm. banana "female compact connector" to 6 mm. "metallic" Jack stereo.

> Ref. DS-0074 FEMALE DS "COMPACT" CONNECTOR
If your track connection system is different than the DS, don't worry, you now can install in you controller the universal female DS compact box and adapt it to any track with it.

> Ref. DS-0079 SCX CONTROLLER CONNECTOR
Adapter wire from 4 mm. banana "female plug" to standard SCX track connection.

DS gives you the most extensive catalogue of accessories for lap counters that will fulfil all needs at home, club or professional users, in the world of Slot racing.

Track accessories - Furniture supports:

> Ref. DS-0008 2 LANES COMPACT SUPPORT PLATE
Stainless steel plate for speed circuits, prepared to fit a control box "PRO Stop & Go Box" (ref. DS-0061) and two credit card readers "DS Card Control Reader" (ref. DS-0062). The plate is 1 metre long.

> Ref. DS-0009 RALLY COMPACT SUPPORT PLATE
Stainless steel plate for Rally circuits, prepared to fit a lap counter "DS-200 PRO" (ref. DS-2000), a power supplier, "DS-POWER 2" (ref. DS-0001), one credit card reader "DS Card Control Reader" (ref. DS-0062) and a control box "PRO Stop & Go Box" (ref. DS-0061). The plate is 40 cm. long.

Ref. DS-0010

Ref. DS-0011

Ref. DS-0059

Ref. DS-0073
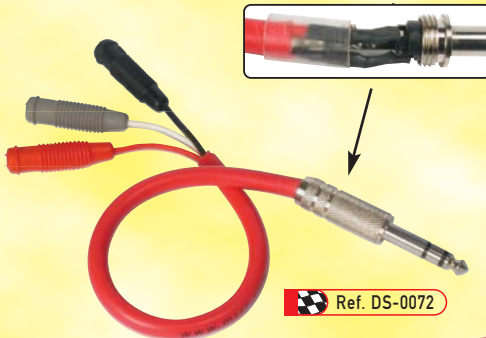
Ref. DS-0072

Ref. DS-0074

Ref. DS-0079

Ref. DS-0009

Ref. DS-0008

DS components not included !

Lap counter power supplier transformers

> Ref. DS-0050 **10 V. A.C. 1 A. POWER SUPPLIER**
Recommended for the "DS-200 PRO" lap counter. Output: 10 V. and 1 Amp. A.C.

> Ref. DS-0051 **10 V. A.C. 3 A. POWER SUPPLIER**
Recommended for "DS-300 PRO" or "INTERFACE" lap counters. Output: 10 V. and 3 Amp. A.C.

Ref. DS-0050

Ref. DS-0051

Track power supplier transformers

The DS power suppliers are universal, this means, they can be used on any kind of slot track system.
It is ideal to solve all kind of current problems from the track, homogenising the current from all the track lanes.

> Ref. DS-0001 **DS POWER-2**
The power supplier POWER-2, gives 2 Ampere and it is adjustable in Voltage (5, 7, 10, 12, 14, 15, 16, 17, 18, 19, 20, 22 V.).

Technical data:
- Universal use power supplier, it works with any kind of track system on the market.
- Automatic short circuit cut off, with immediate restart by means of a button (saving controllers or power supplier to be burned).
- Bipolar out cable at low current (red/black) without switch (universal connection).
- Power is on/off shown by means of a bicolour LED (green/red).
- 2 Amp of power and non limited direct current.
- For 220V. use with 36VA, stabilised and rectified current.
- Size: length: 13 cm. width: 9 cm. and height: 7 cm.

12 VOLTAGE POSITIONS

Ref. DS-0001

NEW

> Ref. DS-0002 **DS POWER-2BASIC**
The track power supplier POWER-2BASIC, is the lower and economic range of professional DS power units. With 2 Amperes it is adjustable in Voltage (12, 14, 15, 16, 18, 20 V.). Fully stabilised dc voltage.

Technical data:
- Universal use power supplier, it works with any kind of slot track system on the market.
- Automatic electronic protection for short circuits or overload cut off indicated by a led display.
- New extraflexible bipolar out cable at low current (yellow) without switch (universal connection).
- Switch function using revolving commutator with six position.
- Power is on/off shown by means of a bicolour LED (green/red).
- 2 Amp of power and non limited direct current..
- For 220V. use with 36VA, stabilised and rectified current
- Size: length: 13cm, width: 9cm and height: 7cm.

6 VOLTAGE POSITIONS

Ref. DS-0002

NEW

> Ref. DS-0002

DS POWER-3

The track power supplier POWER-3, is the higher range range of professional DS compact power units. With 3 Amperes it is adjustable in Voltage (9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20 V.). Fully stabilised dc voltage.

12 VOLTAGE POSITIONS

Technical data:
• Universal use power supplier, it works with any kind of slot track system on the market.
• Automatic electronic protection for short circuits or overload cut off indicated by a led display.
• New extraflexible bipolar out cable at low current (yellow) without switch (universal connection).
• Switch function using revolving commutator with eleven position.
• Power is on/off shown by means of a bicolour LED (green/red)
• 3 Amp of power and non limited direct current.
• For 220V. use with 60VA, stabilised and rectified current.
• Size: length: 13cm, width: 9cm and height: 7cm.

Ref. DS-0003

NEW

> Ref. DS-0005

DS POWER-5

The power supplier POWER-5 gives 5 rectified and stabilised Amps. It is digitally adjustable in Voltage, from 4 to 20V. By means of a new and more sensitive device to 0,1 V. increments.

DIGITAL ADJUSTMENT

Technical data:
• Universal use power supplier, it works with any kind of track system on the market.
• Automatic short circuit cut off, with immediate restart by means of a button (saving controllers or power supplier to be burned).
• Track connection by means of 4mm. diameter banana connection (included) like the ones used by controllers (ref. DS.0025).
• Digital display of voltage.
• 5 Amp. of power and non limited direct current.
• With a new design of box made up with stainless steel.
• Protection fuses to avoid tension overload.
• For 220 V. use with 100 VA stabilised and rectified current.
• Size: length: 18 cm. width: 14 cm. and height: 14 cm.

Ref. DS-0003

NEW

Power Suppliers

DS gives you the most extensive catalogue of accessories for lap counters that will fulfil all needs at home, club or professional users, in the world of Slot racing.

> Ref. DS-0005

POWER SUPPLIER DS POWER-5

The power supplier POWER-5 gives 5 rectified and stabilised Amps. It is digitally adjustable in Voltage, from 4 to 20V. By means of a new and more sensitive device to 0,1 V. increments.

Technical data:
- Universal use power supplier, it works with any kind of track system on the market.
- Automatic short circuit cut off, with immediate restart by means of a button (saving controllers or power supplier to be burned).
- Track connection by means of 4mm. diameter banana connection (included) like the ones used by controllers (ref. DS.0025).
- Digital display of voltage.
- 5 Amp. of power and non limited direct current.
- With a new design of box made up with stainless steel.
- Protection fuses to avoid tension overload.
- For 220 V. use with 100 VA stabilised and rectified current.
- Size: length: 18 cm. width: 14 cm. and height: 14 cm.

Ref. DS-0005

DIGITAL ADJUSTMENT

> Ref. DS-0006

DS POWER-10

The power supplier POWER-10 is the highest range of DS track power supply. It gives stabilised and rectified 10 Amps from 4 to 13 V. and 5 Amps from 14 to 22V. It is digitally adjustable in Voltage with a new and more sensitive device to 0,1 V. increments.

Technical data:
- Universal use power supplier, it works with any kind of track system on the market.
- Automatic short circuit cut off, with immediate restart by means of a button (saving controllers or power supplier to be burned).
- Track connection by means of 4mm. diameter banana connection (included) like the ones used by controllers (ref. DS.0025).
- Digital display of voltage.
- 10 Amp. of power and non limited direct current from 4 to 13 V.
- 5 Amp. of power and non limited direct current from 14 to 22 V.
- With a new design of box made up with stainless steel.
- Protection fuses to avoid tension overload.
- For 220 V. use with 100 VA stabilised and rectified current.
- Size: length: 18cm, width:14cm and height:14cm.

NEW

Ref. DS-0006

DIGITAL ADJUSTMENT

[**EASY ACCESS AND CONTROL**]

> "Infrared Bridge" sensors

Lap counter universal infrared bridge sensor. For all SLOT tracks and number of lanes on the market.

Complete infrared bridge sensor includes wire and completely assembled connector for the DS lap counter. It does not need extra power supply for use.

All infrared bridges have infrared sender lights on the upper part and a receiver on the bottom. When the car is cutting the beam of light, the sensor sends a signal to the lap counter.

Attention! The receiver on the bottom must always be visible, this means, never to be covered by the track or any other object.

It also can be used as decoration.

Available for:
- SCALEXTRIC-SUPERSLOT: 78 mm. distance between lanes.
- POLISTIL-PROSLOT-CARRERA PROFI: 89 mm. distance.
- NINCO-FLEICHMANN: 90 mm. distance.
- CARRERA EVOLUTION y EXCLUSIV: 100 mm. distance.
- CONCEPT SYSTEM: 110 mm. distance.

DS offers the possibility of manufacturing special sizes according to the costumer's needs, apart from the mentioned above.

> Ref. DS-0013   **SCALEXTRIC 2 LANES**
> Ref. DS-0026   **SCALEXTRIC 4 LANES**
> Ref. DS-0027   **SCALEXTRIC 6 LANES**
> Ref. DS-0028   **SCALEXTRIC 8 LANES**

> Ref. DS-0033   **POLISTIL – PROSLOT – PROFI 2 LANES**
> Ref. DS-0034   **POLISTIL – PROSLOT – PROFI 4 LANES**
> Ref. DS-0035   **POLISTIL – PROSLOT – PROFI 6 LANES**

> Ref. DS-0036   **EVOLUTION – EXCLUSIV 2 LANES**
> Ref. DS-0037   **EVOLUTION – EXCLUSIV 4 LANES**
> Ref. DS-0038   **EVOLUTION – EXCLUSIV 6 LANES**
> Ref. DS-0039   **EVOLUTION – EXCLUSIV 8 LANES**

> Ref. DS-0040   **CONCEPT SYSTEM 2 LANES**
> Ref. DS-0041   **CONCEPT SYSTEM 4 LANES**
> Ref. DS-0042   **CONCEPT SYSTEM 6 LANES**
> Ref. DS-0043   **CONCEPT SYSTEM 8 LANES**

> Ref. DS-0054   **NINCO – FLEICHMANN 2 LANES**
> Ref. DS-0055   **NINCO – FLEICHMANN 4 LANES**
> Ref. DS-0056   **NINCO – FLEICHMANN 6 LANES**
> Ref. DS-0057   **NINCO – FLEICHMANN 8 LANES**
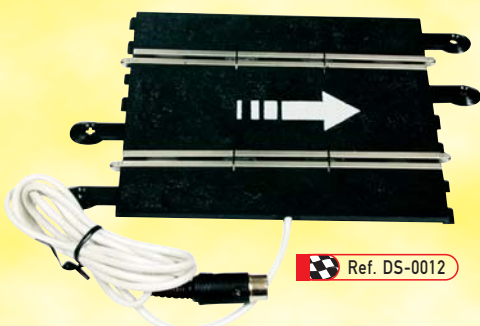
Ref. DS-0012

> Track "Dead Section" sensors

This kind of sensor is a standard two lane track section. This section has a "dead section" which is used as sensor. It is an easy to install, simple and cheap senor.

Compatible with all the DS lap counter.

Wiring and connector for two completely assembled lanes included.

There is the option of a 2m. wire with connector for two lanes, without track section, in this way you can adapt to any track.

Available for:
- SCALEXTRIC: 155 mm. straight.
- CARRERA EVOLUTION y EXCLUSIV: Standard straight.
- CARRERA PROFI: Standard straight.
- CARTRONIC "The Club": Standard straight.
- NINCO: 200 mm. straight.

DS offers the possibility of manufacturing special sizes according to the costumer's needs, apart from the mentioned above.

> Ref. DS-0012   **SCALEXTRIC**
> Ref. DS-0016   **CARRERA EXCLUSIV – EVOLUTION**
> Ref. DS-0029   **CARRERA PROFI**
> Ref. DS-0031   **CARTRONIC "THE CLUB"**
> Ref. DS-0058   **NINCO**

> Ref. DS-0017   **SENSOR KIT FOR ESPECIAL TRACKS**
Sensor Kit for universal track, you can adapt to any kina of track on the market, includes 2m. wire with connector. It does not include track section. Directions for assembling included.

Ref. DS-0013

Ref. DS-0081

You can have the total control of the track and races with these boxes! They start the race and stop the race all at once or when crossing the finish line, etc, depending on the programme of the lap counter.

They are valid for any kind of track on the market.

Do not use power over 20V. and 5A.

The easiest way to connect controllers and power suppliers to any track!

Controller lane 1
To track lane 1
Controller lane 2
To track lane 2
To power supplier lane 1 power supplier
To DS lap counter
To power supplier lane 2 power supplier

Ref. DS-0021 / DS-0061

> Ref. DS-0021 STOP & GO BOX

Professional box for quick and easy connection of controllers and power suppliers.

Technical data:
- Cable with valid switch to all DS lap counters.
- Controller connection is made by means of the international system of 3 coloured bananas. The easiest and standard way.
- These boxes are valid for any kind of controller existing on the market (Mrrc, Scalextric, Ninco, Parma, Carrera, etc.), with or without electrodynamic breaking.
- Large red and green LED traffic lights to start the race.
- In-cable for power to track, independent for each lane (two power supplies) or common (one power supplier)
- Out-power supply to track by means of two banana connections, easy plug in/out driving directions.
- Start and stop control, working directly on the track's power supply, power on when starting or power off when finishing the race.

ATTENTION! It does not work without switching to a DS lap counter. We recommend purchasing the trackpower wiring set - reference DS-0053.

Lane 1 controller
Lane 2 controller
To track lane 1
To track lane 2
To power supplier lane 1 power supplier
To power supplier lane 2 power supplier

Ref. DS-0022

> Ref. DS-0061 PRO STOP & GO BOX

Professional box for the quick and easy connection of controllers and power suppliers.

Technical data:
- With the same features as DS-0021, but with two releé (one for each track lane) for individual lane control.
- Only works if connected to DS-200 PRO, DS-300 PRO, and DS-400 PRO "SUPERTOWER".

> Ref. DS-0022 INTERNATIONAL BOX

Box for the quick and easy connection of controllers and power suppliers.

Technical data:
- Controller connection is made by means of the international system of 3 coloured bananas. The easiest and standard way.
- These boxes are valid for any kind of controller existing on the market (Mrrc, Scalextric, Ninco, Parma, Carrera, etc.), with or without electrodynamic breaking.
- In-cable for power to track, independent for each lane (two power supplies) or common (one power supplier)
- Out-power supply to track by means of two banana connections, easy plug in/out driving directions.

> Ref. DS-0060 DRAGSTER BOX SET

Especial traffic light tree for Dragster races.

Technical data:
- Includes a "V" wire (ref.DS-0018) to connect the two sensors needed.
- It must be connected to the lap counter DS-200 PRO.
- Not compatible with control boxes "Stop & Go Box" (ref. DS-0021) or "PRO Stop & Go Box" (ref- DS-0061).

Compatibility Chart
DS-300 / DS-030 / Stop&Go

	DS-300 Unit 1-2	DS-300 Secondaries U.	DS-0021 Stop&Go	DS-0061 PRO Stop&Go
DS-030 Unit 1-2	✗	✗	✔	✗
DS-030 Secondaries U.	✔	✗	✔	✗
DS-0021 Stop&Go	✔	✔		
DS-0061 PRO Stop&Go	✔	✔		

Ref. DS-0060

To DS-200 PRO lap counter

Ref. DS-0062 DS CARD CONTROL READER WITH LCD

A complete set of control by means of a card with "chip", it can be used for the control of club tracks, tracks for renting...

Technical data:
- Allows power supply to track when the card is valid and has credit.
- LCD screen for the reading of needed information (programming, left credit, etc)
- Allows programming in different currencies.
- Direct connection to track control box "PRO Stop & Go Box" (ref. DS-0061).
- Presented in stainless steel box.

> Ref. DS-0063 DS CARD CONTROL READER/WRITER

A complete control system by means of DS credit cards, together with the software included gives total control.

Technical data:
- Reads and writes on DS credit cards.
- PC is used for the programming and control of cards.
- Allows lane control by the track owner.
- Special software settings for the owner.
  - Allows 4 different categories of customer at the same time.
  - We can save the customer's photograph through the webcam.
  - Allows setting different time zones 24 hours a day 7 days per week.
  - Each lane has independent consumption control.
  - Programmable cards.
  - Timing control.
  - Allows card blocking.
- Professional control of club membership fee or race entry fee.
- Easy working.
- Allows consumption control by means of card configuration.
- Needs of DS-Rent software for working.
- Presented in stainless steel box.

Ref. DS-0062

> Ref. DS-0064 CREDIT CARDS

Ten recordable credit card units, which can be personalised for the use of costumer card or can be used for the configuration of the readers (ref. DS-0062).
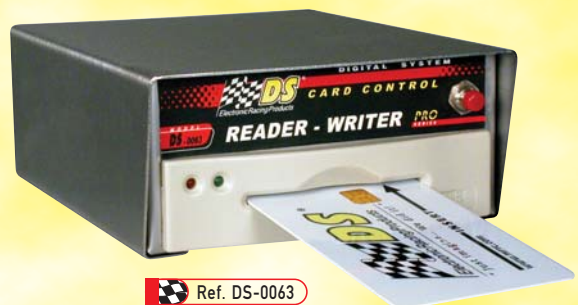
Ref. DS-0063

> Ref. DS-0088 PERSONALISED CREDIT CARDS

Credit car personalising with your logo, address, advertising... printed in two colours chosen by the user. Minimum order of 100 cards. There is the possibility of personalising with more colours.

Ref. DS-0088

Easy programm to setup races !

Electronics accessories - Wires, track connections

> **Ref. DS-0018** **"V" WIRE FOR TWO SENSORS**
For the assembling of two sensors to the same lap counter.
It is used for time section timing between two sensors or partial timing (motor and car test).

> **Ref. DS-0019** **STANDARD POWER SUPPLY WIRE**
To be used together with another supplier in any DS lap counter.

> **Ref. DS-0023** **BICOLOUR WIRE FOR TRACK POWER**
Ten metres of bicolour black/red wire of 1 mm. of section.

> **Ref. DS-0025** **4 MM Ø BANANA PLUGS**
Two 4 mm. Ø banana plugs: red and black colours, for controller connection.

> **Ref. DS-0052** **RS-323C WIRE, DS CONNECTION TO PC**
1.80 meters of wire to connect the DS lap counter to PC (9 pin for COM port).

> **Ref. DS-0086** **RS-232C WIRE, DS CONNECTION TO PC**
3 meters of wire to connect the DS lap counter to PC (9 pin for COM port).

> **Ref. DS-0087** **RS-232C WIRE, DS CONNECTION TO PC**
10 meters of wire to connect the DS lap counter to PC (9 pin for COM port).

> **Ref. DS-0053** **TRACK POWER WIRING SET**
Five metres of bicolour red/black wire of 1 mm. of section and
4 mm. Ø (2 black and 2 red) banana plugs for installation and connections.

> **Ref. DS-0070** **EXTENSION WIRE FOR INFRARED BRIDGE**
Four metres of especial wire for infrared bridge with connectors.

> **Ref. DS-0071** **EXTENSION WIRE FOR STOP & GO BOX**
Four metres of szzpecial wire for Stop & Go boxes with connectors. Also works with the PRO series.

> **Ref. DS-0092** **TENSION LINKAGE CLIPS**
Set of clips with special desing that helps Carrera-Exclusiv power current supply.

> **Ref. DS-0098** **INFRARED SPARE LED'S FOR INFRARES BRIDGES**
Led from Infrared bridge may be need to be replaced after continous use during a long term (years), DS offer you the possibility to replace them without problems with the original DS infrared Leds.

> **Ref. DS-0099** **RED LED**
Break 3mm.

> **Ref. DS-0100** **BLUE XENON LED**
Front 3mm.

> **Ref. DS-0101** **WHITE XENON LED**
Front 3mm.

> **Ref. DS-0102** **YELLOW XENON LED**
Front 3mm.

Ref. DS-0018

Ref. DS-0023

Ref. DS-0019

Ref. DS-0052 / DS-0086 / DS-0087

Ref. DS-0025

Ref. DS-0053

Ref. DS-0070

Ref. DS-0071

Ref. DS-0092
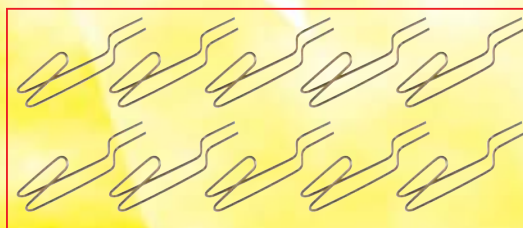
Ref. DS-0098

Ref. DS-0099

NEW

Ref. DS-0100

[DS - 200 PRO and accessories]

Standard system for two lanes

220 V. (With DS-0050 10 Volts / 1 Amp. AC / DC transformer)

PC

(Lane 1)

(Lane 2)

DS CARD Control

Handcontroller 1

Handcontroller 2

Power supply

Power supply

Sensor

**STOP & GO BOX
o PRO STOP & GO BOX**

TRACK

Lane 1

Lane 2
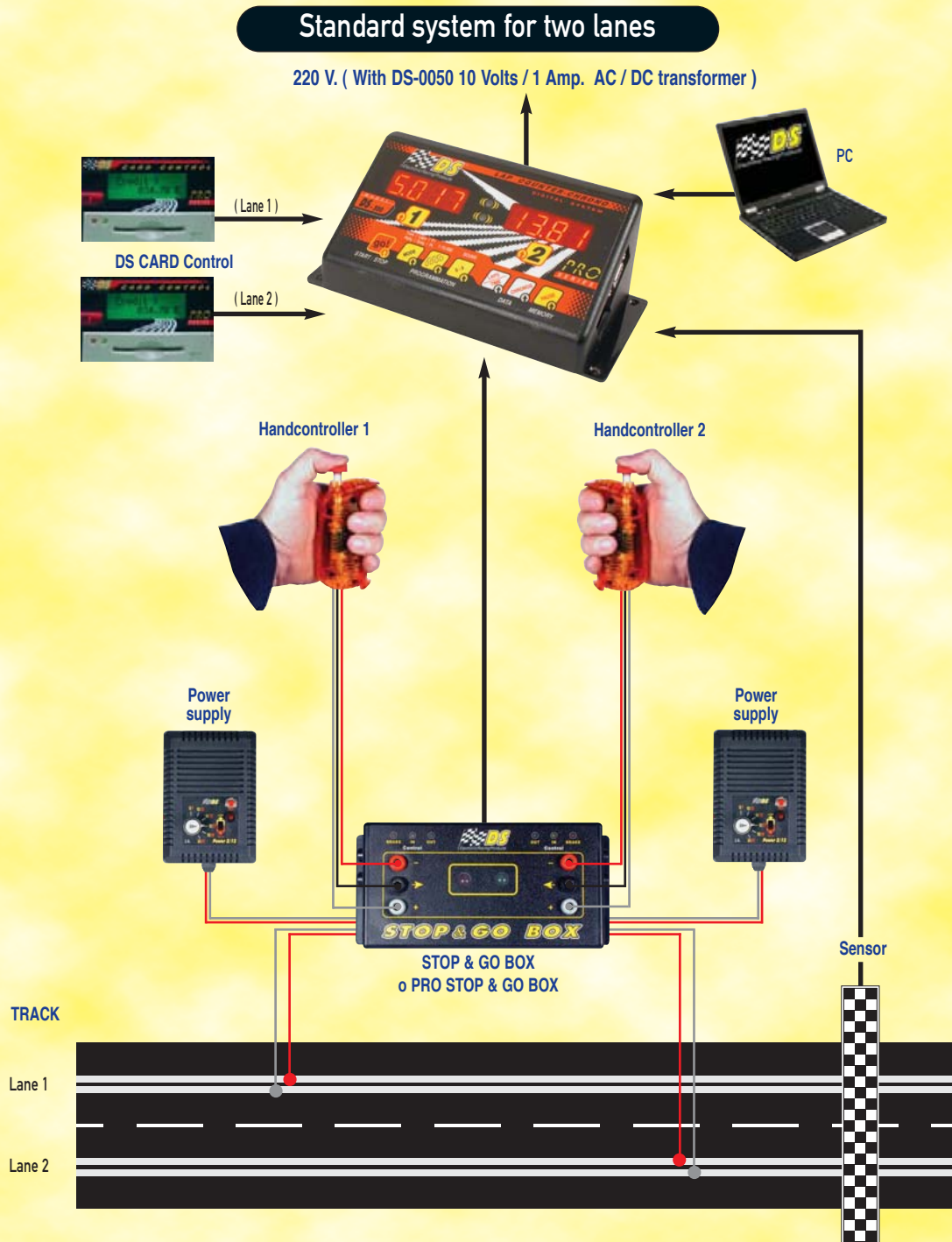
[DS - 200 PRO and accessories]

Slot Dragsters system

220 V. (With DS-0050 10 Volts / 1 Amp. AC / DC transformer)

(Lane 1)

DS CARD Control

(Lane 2)

PC

Dragster Box

"V" wire

Handcontroller 1

Handcontroller 2

Power supply

Power supply

Sensor 1

Sensor 2

INTERNATIONAL BOX

TRACK

Lane 1

Lane 2

[DS - 300 PRO and accessories]

220 V. (With DS-0051, 10 Volts / 3 Amp.   AC / DC transformer)

DS CARD Control

(One "DS CARD Control" for each lane)

Handcontroller 1

Handcontroller 2

Power supply

Power supply

(Lane 1 and 2)

(Lane 3 and 4)

(Lane 5 and 6)

(Lane 7 and 8)

(Lane 1 and 2)

(Lane 3 and 4)

(Lane 5 and 6)

(Lane 7 and 8)

PC

STOP & GO BOX

(Same as lanes 1 and 2)

(Same as lanes 1 and 2)

(Same as lanes 1 and 2)

Sensor

TRACK

Lane 1

Lane 2

Lane 3

Lane 4

Lane 5

Lane 6

Lane 7

Lane 8

DS®
Electronic Racing Products

" Just imagine... We did it! "

Since 1954!

MRRC International Hobbies Limited

P. O. Box 790
St. Heiler
JE4 0SW - JERSEY (Great Britain)
Fax Int. + 44 (0) 1534864988

http://www.mrrc.com
info@mrrc.com

Manufactured by:

IBB AUTO RACING, S.L.
C/ Sant Joan Baptista, 79
08700 Igualada (Barcelona)
Tel. + 34 93 803 08 80
Fax + 34 93 805 50 57

e-mail: info@ibbautoracing.com
web: www.ibbautoracing.com

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