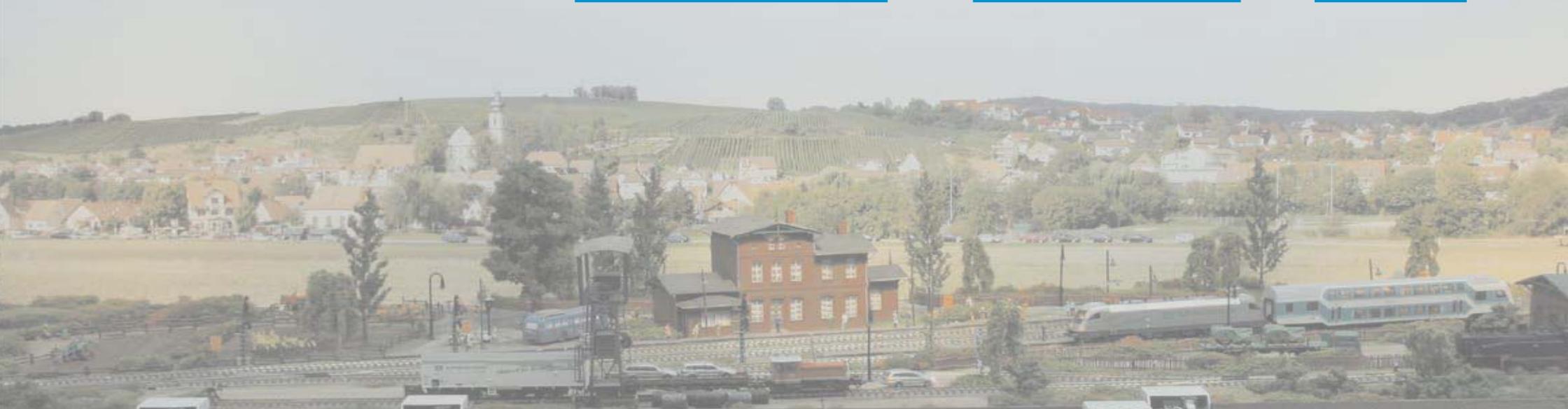


# 30 Years

**Uhlenbrock**  
digital  
For the Intelligent Railway

## New Items 2008

FRED-CS  
Gantry Crane  
Sound-Director  
Servo decoder  
USB-LocoNet Interface



## Advance notice 2009: The success story continues!

The successor to the legendary Intellibox IR which in one decade became the reference for all digital centers, will come in a whole new version next Year.

Tailored for the model railroader who wants to run a railway and not play with a computer.

### Intellibox II

#### The next Generation

##### New features

- Large, high resolution display with backlighting
- Informative display
- Detailed representation, therefore very readable
- Information in plain text or as function symbols
- All keys with backlighting
- Context sensitive key allocation
- Speed indication also in km/h
- Up to 32768 switchable functions per locomotive
- Large locomotive data base
- Input of locomotive names
- Decoder programming in plain text
- Routes callable by feedback contacts
- Help function
- Model time clock
- USB computer interface
- Low power technology

##### Familiar functionality

- Data format DCC, Motorola
- Up to 128 speed steps
- Up to 9999 decoder addresses
- Virtual locomotive addresses
- Multiple traction (consist)
- DirectDrive function
- Switching of turnouts, signals and routes
- Integrated Infrared receiver
- Connections for LocoNet, transformer, track, programming track, Booster, DCC booster and additional Infrared receiver

##### Great Prospects

Technically, the Intellibox II is a completely new device. Only the proven ergonomics remains. For us it is a given that it is compatible with our other devices.

The most obvious innovation is the large easy-to-read display. The various parameters are shown in plain text and as function symbols. The information is very detailed and also easy to read from the side.

The additional keys on the right and left of the display are contextually assigned, for fast access to menu options and functions.

The speed display is not only in speed steps or percent, but now also in km/h. Up to 32768 special functions per locomotive are available.

A large locomotive database with the text display of locomotive names can be set individually.

New also is decoder programming in plain text, the detailed help function, a model clock and computer connection via the USB port.

Because of the new low power technology the heat development is greatly reduced and the heat sink is no longer required.



Artist Impression

## NEW: The new driving comfort for the central station

### Still: Everything in a box

With the Intellibox II you are completely equipped for digital operation.

The Intellibox II can operate on 2-and 3-Rail layouts. It supports 128 speed steps and 9999 decoder addresses, Locomotive, function, turnout and switching decoders in the Motorola and DCC format from different manufacturers at the same time.

A single device puts the following components of Digital systems at your disposal: Central processing unit, booster, Speed controller, key board, Programmer, interface, feedback mode, route control and LISSY Mode with the DirectDrive function.

The integrated Infrared receiver makes the direct use of an IRIS infrared remote control possible.

As bus system the Intellibox II uses the model railway network work LocoNet. The data communication is reliable and fast. Accessories can be connected to the layout easily and quickly.

The connection of the individual locomotive control system LISSY makes automation of the model railway possible without the need for a computer.

With the DirectDrive function a locomotive which passed a selected LISSY receiver can be taken over on a speed controller by the push of a button, without the input of locomotive address or name.

The integrated USB interface provides a fast connection to PC or MAC. Any software that supports the LocoNet protocol can be used for automated layout control.

### FRED-CS

#### The hand control especially for the central station

- Direct connection to the central station
- Low friction rotary control
- Single hand operation
- Switches light and up to 14 special functions
- Large working radius



Suitably matching the Design of Central Station, the hand control has a large rotary speed control with end stop. This is very precise and low friction. It has a handing feel which you are undoubtedly looking for in Märklin devices.

It is ideal when shunting. With the FRED-CS in one hand one can drive "blind" and observe the locomotive from close proximity. One hand remains free for coupling or loading activities. With the 3m long spiral cable you have a large working radius.

A rocker switch changes the driving direction, so you can sense this at any time and are not dependent on the LED display.

The stop key is the emergency brake for the currently controlled locomotive.

The function keys can switch light and up to 14 special functions.

The locomotive to be controlled is assigned to the FRED-CS from the Central Station. Up to 31 FRED-CS can be attached to a Central station.

Supplied is a 3m spiral lead.

**Part No. 66 010 FRED-CS**

*Prospective availability from May 2008.*

**The familiar and popular FRED is now also available to connect to the Central Station. FRED is an abbreviation for "Fremos einfacher Drehregler (Fremos simple rotary controller)". Originally the FRED was developed by members of Fremo and has become the standard hand controller for digital layouts.**

## NEW: Support on crane?

### Gantry Crane in 1:87 Scale

#### Functional finished model for analogue and digital operations

##### The Prototype

This gantry crane was built in large numbers and even today it can still be found on many loading tracks.

##### The model



Our finished model is developed in co-operation with the company Kibri. It is based on the finely detailed plastic model of the gantry crane. The drive components are manufactured in metal. Quiet miniature motors lift and lower the crane hook and move the trolley with safely guided rope drives.

Size of the Model: 128 x 50 x 132 mm (L x B x H)

##### The Operation

The model is equipped with a digital decoder. There are programmable outputs for a lifting magnet or grip and for an additional lighting. All functions can be controlled in analog systems and also with all DCC or Märklin /Motorola Digital Center.

*Prospective availability from May 2008.*

##### The Control panel

For a simpler operation a control console is in preparation. It is equipped with an output for the crane and a LocoNet interface.

*Prospective availability from 2009.*



**Part No. 80 000 Gantry crane finished model**  
**Part No. 80 010 Gantry crane control console**

*The prototype can still be found on many loading tracks today.*



## NEW: My Railway – My Sound!

### Sound-Director

#### Your own Sounds on the Model railway

Whether you have an analogue or digital layout you can now play your own background sounds.

Prepare an appropriate MP3 file on your computer and store it on the provided USB stick. As soon as the USB stick is connected with the Sound-Director, the individual sounds can be called up.

- Controller, USB stick and 2 loudspeakers for administrating and playing MP3 files
- Play background noises in a continuous loop
- With 10 inputs for triggering context oriented noises by keys, switching or reed contact

- With LocoNet interface, it triggers context oriented noises by feedback, turnout commands or LISSY system
- In combination with LISSY, each train can trigger its own announcement
- With random number generator (e.g. for dog barking)
- With model clock (e.g. for the church bells)
- Play list for more than 600 files
- USB stick with 68 minutes playing time per 64MB storage with a sample rate of 128 Kbit/s
- Software for module set up and for the administration of the MP3 files on the USB stick
- For analogue and digital model courses
- No interface or Programmer necessary

Background noises such as wind and weather noises, road and building noise or animal sounds are played in a continuous loop.

Individual noises such as church bells, siren or station announcements can be individually played by key press, switching contact, reed contact, or by the random number generator or at set times.

When connected to the LocoNet the noises can also be triggered by a train driving by feedback, turnout instructions or the LISSY system. In a LISSY system a train can even call up its own, only valid for it, station announcement.

With model railways that are controlled by a LocoNet center more than 600 sounds from the play list can be called up. With all other systems including analogue systems over 400 sounds are available. These can run in continuous loops or called up by contacts, the random number generator or the model clock.

The Sound-Director is supplied completely with two small loudspeakers. Alternatively you can directly attach PC loud speaker boxes to the sockets.

The provided USB stick makes a selection of immediately playable noises available.

Supplied with: Sound Director, USB stick, 2 loud speakers and 2.15 m LocoNet lead

**Part No. 38 000**

*Prospective availability from July 2008.*

**Sound on the Model railway layout is like salt in soup.**

**Without everyday noises, station announcements, traffic noises or church bells, something is missing.**



## NEW: Everything in motion - the new digital servo drive

### Digital Servo drive

#### For Märklin and DCC Digital systems

A digital servo consists of the control drive (servo) and a servo decoder.

The servo moves the item which is to be moved via the provided control wire, for example turnout blades, semaphore signal, booms, water cranes or gates. It can be installed in many different situations with the enclosed mounting material.

**Servos switch turnouts, signals and boom gates at railway crossings, move a water crane, open or close gates. In use for decades in RC models, Servos form an inexpensive and quiet drive for many applications.**

### Servo decoder

#### For connecting 4 Servos

- Configurable switching address
- Configurable end stop
- Configurable rotating speed
- Backlash function
- Configurable using turnout keys or by DCC CV programming
- Connection to digital power
- Power supply from the track or by separate transformer
- Very low power usage by integrated regulator controller
- Servo outputs with overload protection

With simple key programming, Motorola and DCC centers can configure the address, end stop and the rotating speed for each servo independently.

When using a DCC center, e.g. the Intellibox, all parameters can be adjusted by CV programming. So 2 addresses, their end stops, the rotating speed and the backlash function for each servo can be adjusted independently.

**Part No. 67 800**

*Prospective availability from April 2008.*

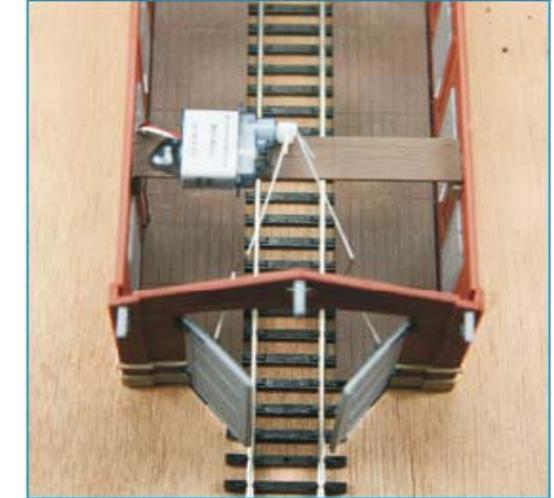
Up to 4 Servos can be connected to a servo decoder.



Standard servo swivels a water crane (example of use)



Mini servo opens the locomotive shed doors (example of use)



## NEW: The USB connection - LocoNet

### Servos

#### In three different variations

- With accessories and mounting material
- With actuator wire, 2 x 0.4mm and 1 x 0.6 mm, length ever 100 mm

#### Mini Servo

Use in limited space conditions for applications which do not require a large adjusting force.

Size of 2,0.0 x 17.6 x 8.0 mm, torque 4 Ncm

**Part No. 81 410**

#### Standard Servo

For general use, e.g. turnouts.

Size of 22.2 x 2,0.0 x 11.1 mm, torque 13 Ncm

**Part No. 81 420**

#### Precision Servo

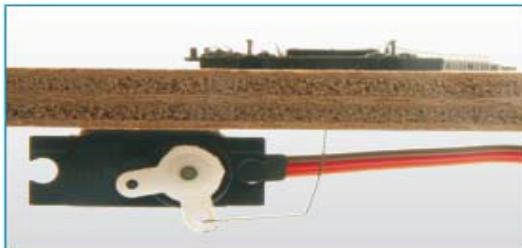
Very quiet and precise.

Size 22, 2?x 2,1.3 x 11.1 mm, torque 14 Ncm

**Part No. 81 430**

*Prospective availability from April 2008.*

*The precision servo controls a turnout (example of use)*



### USB-Loconet Interface

#### For Märklin and DCC Digital systems

- For programming of LocoNet modules
- Includes programming software LocoNet Tool
- For automatic layout control



The LocoNet interface is suitable for all digital centers without a computer interface such as for DAISY or Märklin control unit with 6021-Infrarot & LocoNet adapters.

The interface is connected to a USB socket of a computer. It is most suitable for automatic layout control.

Note: Feedback from s88 Modules, which are attached to Märklin devices (Memory, interface), cannot be conveyed to the computer.

Supplied with: LocoNet interface, "LocoNet Tool" software, operating instructions

**Part No. 63 120** USB LocoNet interface

*Prospective availability from June 2008.*

### Track-Control Foils

Due to numerous requests the Track-Control foils are now available separately.

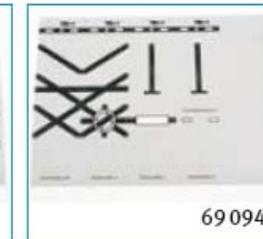
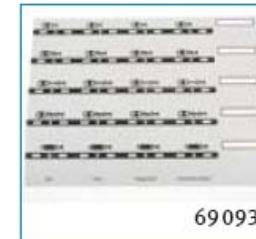
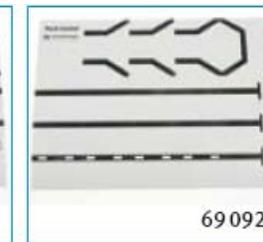
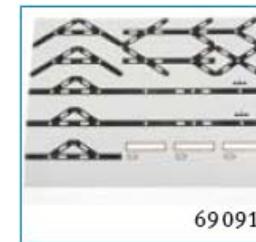


**Part No. 69 091** Turnout and Crossing symbols

**Part No. 69 092** Route symbols

**Part No. 69 093** Signals

**Part No. 69 094** Crossing without motor, Turntable, Route memory, Train no. display, Empty field



# LISSY

## The individual locomotive control system

- Automatic control of a layout **without needing a computer**
- Trouble free reporting procedure via LocoNet
- **Train recognition without track isolation**
- Speed influencing
- Pin-point stopping at signals
- Switching of locomotive special functions
- **Train dependent** route switching
- Block section operation, Shuttle train operation, automatic station control
- **DirectDrive = locomotive by name without input of the address**



## Complete Catalog

### Technology for model railways

Our 68 page catalog with all our products, many hints and references, can be obtained directly from your specialist dealer for 3,50 EUR, or from us by sending 5,00 EUR in stamps or Internet order, through our homepage.

## A ready fully functional system!

Uhlenbrock Elektronik GmbH  
 Mercatorstraße 6  
 D-46244 Bottrop  
 02045-85830



*"Intellibox", "IntelliSound" and "Uhlenbrock Elektronik" are registered trade marks Uhlenbrock Elektronik GmbH.  
 All brands mentioned are registered trade names of the appropriate companies.*

*We reserve the right to make changes to data.*

Your Uhlenbrock Dealer