

**Digital**  
plus<sup>®</sup>  
by Lenz

Command station LZV200  
Software update LZV100, LH90, LH100

**Digital**  
plus<sup>®</sup>  
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SILVER mini + with S.U.S.I. interface

**Rail** **Com**

RailCom transmitter LRC110

**Modell**  
plus  
by Lenz

Köf II Era 3

**Lenz** **O**<sup>©</sup>

Converted coaches 3yg („Umbauwagen“)

**Lenz**  
ELEKTRONIKGMBH  
New products 2010

# News from the Great Gauge: V 60 and 3yg

## Diesel locomotive V 60

The DB shunting locomotive par excellence. Well-known to model railway enthusiasts.

- ✓ Composite construction of metal and plastic
- ✓ Era 3, red
- ✓ Maxon motor
- ✓ All axles driven by a coupling rod
- ✓ Direction-dependent change of light
- ✓ Driver's cab light
- ✓ Remote coupler *in digital and analogue mode* !
- ✓ Decoder with USP and effective energy storage which means:
- ✓ **Uninterrupted operation!**
- ✓ Original sound
- ✓ L.o.b. 232,7 mm



V 60 - Art. no.: 40140-01

## 3-axle converted coach 3yg („Umbauwagen“)

The subject „Branch Line in Era 3“ is inconceivable without them: The 3-axle converted coaches coupled in pairs. They were built by DB from the chassis of old 3-axle coaches and formed the backbone of local public transport in Germany until the 1970s, in particular on branch lines.

We present all three models of the converted coaches:

AB3yg: First and second class coach

B3yg: Second class coach, available with two different road numbers

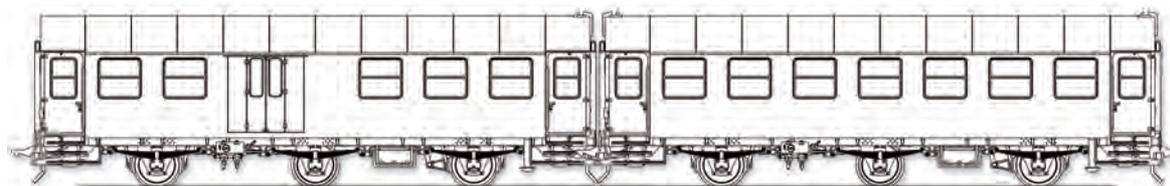
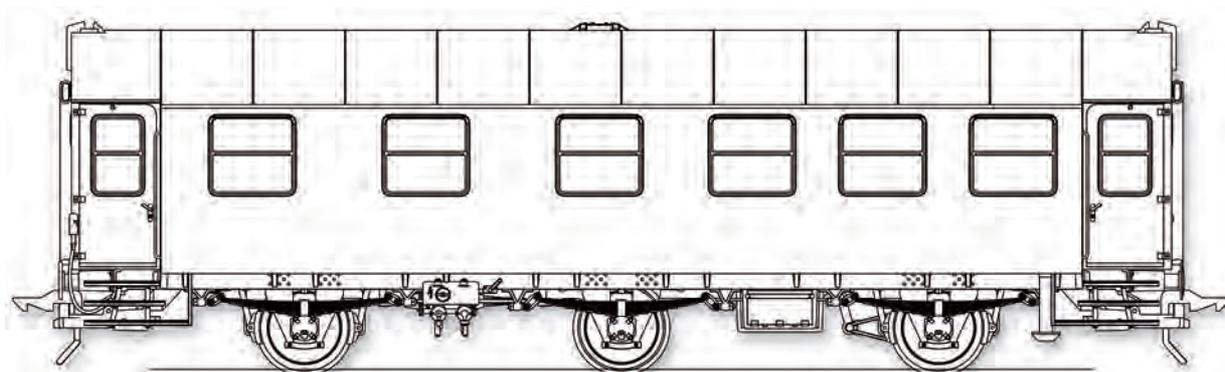
BD3yg: Second class coach with luggage compartment

- ✓ Interior light
- ✓ Close coupler motion link
- ✓ Lenz gauge 0 coupling
- ✓ L.o.b. 295,6 mm

AB3yg - Art. no.: 41240-01

B3yg - Art. no.: 41241-01 / 41241-02

BD3yg - Art. no.: 41242-01



# More Comfort: Command station LZV200 / Software update to version 4

## Digital plus

The *Digital plus* system is known to be a particularly stable system for controlling digital layouts. This stability derives from the continuous development and production of solid components. We consciously chose not to jump on any bandwagon. Sound operation, quality components and operational reliability and safety are still the guiding principles of our product philosophy.

### The new command station LZV200

We have been consistently following new developments and integrated them into our system in the form of updates. Now, we take the next step and present the new version of the well-known command station / amplifier combination LZV100: the LZV200.



### Update to version 4 for LZV100, LH100 and LH90

Of course, the **new features** of the LZV200 (listed on the right) will also be available as an update for the LZV100. For the update, the LZV100 must be sent to Lenz. What makes this update so special, apart from its new features, is that all future updates can be carried out at home!

An update will also be available for the manual controls LH100 and LH90. This update will, for example, facilitate the reading out of CVs via RailCom while programming in operational mode. Detailed information will be published later.

LZV200 - Art. no.: 20200

## Overview of the main features of the LZV200

New features as compared to the LZV100 are highlighted in *bold-italic*

Locomotive addresses

The range of locomotive addresses is 1 to 9.999.  
Address „0“ to control one analogue locomotive.

*Locomotive names*

*The memory of the LZV200 is designed for storing locomotive names (8 characters).*

Locomotive features and configuration

Up to 29 features are available for each locomotive address.  
Features 1 to 28 can be set separately to temporary or permanent operation.  
This setting is saved with the locomotive address.

*Function names*

*Prepared for function names (e.g.: bell, whistle etc.). The name can be up to eight characters long.*

Speed steps

Speed steps 28 to 128 are supported.  
The speed step can be set separately for each locomotive address.

Double and multiple traction (MTR)

Two or more locomotives can be combined and controlled jointly. To manage a double or multiple traction, the LZV200 has an internal database of information stating whether a locomotive is part of a double or multiple traction and, if so, which one. This database can be queried and altered by all XpressNet participants

*RailCom*

*Integrated global RailCom detector*

*Programming in operational mode (PoM)*

Programming of locomotive decoder functions while the locomotive is located somewhere on the layout.  
Drive the locomotive in front of a heavy goods train and adjust the starting delay to match the train!  
*Through the built-in global RailCom detector, the content of CVs can also be read and displayed (if the locomotive decoder that was addressed supports the RailCom function)*

Programming on the programming track

The LZV200 supports all three NMRA compliant types of programming:  
CV programming, register programming and page mode.

*Magnetic articles*

*The address range for magnetic articles (points and signals) is 1 to 2.048.*  
Real point feedback is available in the range 1 to 256.

AUTO Mode

This mode ensures that the locomotives are again provided with the stored data when the system is activated.  
If this mode is enabled, the control commands for the locomotive addresses are stored and sent when the system is activated.  
The information of functions F0 to F4 is also sent.

*XpressNet*

Communication to the input devices is established through the XpressNet connection.  
LZV200 supports XpressNet devices from version 3.  
*Extension of the XpressNet to up to 128 connectable devices possible.*

Output current

The output current of the built-in amplifier is limited to a maximum of 5A.

Protection functions

Thermal overload and external voltage protection.

Housing

Metal

Dimensions

W 120 mm x H 55 mm x D 120 mm

# RailCom Data Transmission with the RailCom Transmitter

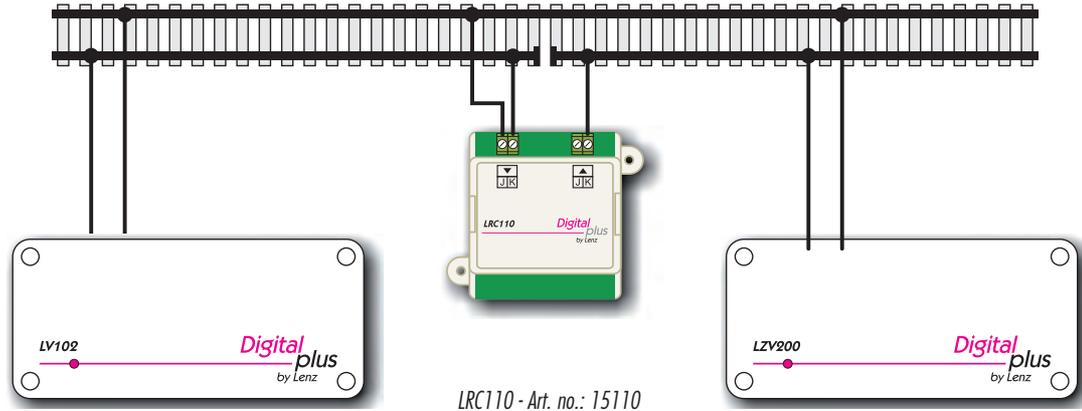
## LRC110 RailCom transmitter

The RailCom transmitter LRC110 serves to transmit global RailCom data from one supply section to the next.

Of course, the global RailCom detector integrated in the LZV200 can receive only those RailCom data from locomotives that are located in the section

supplied by the LZV200. In order to also transmit RailCom data of other supply sections to the LZV200, the RailCom transmitter LRC110 is used.

The LRC110 can be used for all DCC systems that support the RailCom functions.



## SILVER mini + with S.U.S.I. interface

In response to many requests, we have designed the SILVER mini + with the well-known S.U.S.I. interface. Now, you can also use sound modules in gauge N.

- ✓ RailCom
- ✓ High-frequency motor control
- ✓ Constant breaking distance
- ✓ Shunting mode
- ✓ 2 or 4 digit addresses
- ✓ Up to 128 speed steps
- ✓ Function outputs can be freely allocated to the function keys of the digital system
- ✓ Multiple-traction

- ✓ Vmin, Vmid and Vmax settable
- ✓ Short-circuit protection on all outputs
- ✓ Overload protection
- ✓ Overheat protection
- ✓ ABC - automatic stopping in front of signals
- ✓ S.U.S.I. interface
- ✓ Push-pull train control
- ✓ NEM 651 cable / interface
- ✓ 500 mA motor current

SILVER mini + / cabke version - Art. no.: 10310-02

SILVER mini + / NEM 651 - Art. no.: 10311-02

# Köf II in H0

Modell plus  
by Lenz

## Modell plus...

... is the name of Lenz Elektronik's model series for gauge H0. What is so exceptional about this series is its ability to support features in conventional analogue operation that have hitherto been reserved for digital controls. Through the integrated development of mechanics and electronics, construction measures are taken as early as during the design phase to ensure the successful and cost-effective application of state-of-the-art electronics. During the subsequent development phase, mechanics and electronics are tuned to the optimum.

The results are models that support a previously unknown functionality for analogue and digital operation at an affordable price.



After a lengthy time we now again present a gauge H0 model of *Modell plus series*. Und eines, das es in sich hat:

- ✓ Era 3, red
- ✓ Metal chassis and housing!
- ✓ Both axles driven
- ✓ Back axle is mounted floating
- ✓ Spring buffer
- ✓ Direction-dependent change of light
- ✓ Shunting light
- ✓ Remote coupling *in digital and analogue mode!*
- ✓ Decoder with USP and effective energy storage which means:
- ✓ **Uninterrupted operation!**
- ✓ L.o.b. 74,2 mm

Köf II - Art. no.: 30150

Modell plus