

## Revision list

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## Transmitter Module - Type DV4:

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>   |
|-----------------|--------------|---|
| V2.50           | 2010720      | <b>Initial product version</b><br><b>Check if appropriate firmware version installed in the receiver</b><br>Support for „Skynavigator“ (only with BT-Version)<br>Preparation for für MUX- /VM-Board.<br>Telemetry – optimized data stream<br>Additional modulations; more tolerant to „old“ transmitter<br>Depending on the modulation now up to 16 Channels<br>Reset for GPS with switching 3-times<br>Several bugs fixed on speech output<br>USB-Timing / connection optimized for PC |
| V2.51 bis V2.54 |              | Internal versions   |
| V2.55           | 20110915     | Summ channel, slave mode added<br>Multi-Module for all versions<br>In BT-Versions new telemetry protokol  |
| V2.56 to V2.57  |              | Internal versions   |
| V2.57           | 20120427     | Error in speech at LinkVario fixed<br>Detection GPS-start position optimized  |
| V2.58           |              | Internal version  |
| V2.59           | 20120516     | „jerky“ servo movement at Futaba „FASST“ fixed.   |
| V2.60           |              | Internal version  |
| V2.61           | 20120622     | On some conditions language file was not loaded. - fixed<br>GPS-value is only spoken if GPS-Module is connected<br>LinkVario / Sleepmode – Voice output – fixed   |

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## Transmitter Module - Type D:

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>  |
|-----------------|--------------|--|
| V1.xx           | 2008-        | Pre-series   |
| V2.00           | 20090403     | <b>Initial product version</b>   |
| V2.01           | 20090420     | Internal version (debug-log)   |
| V2.02           | 20090518     | Range test extened to 60s  |
| V2.03           | 20090529     | Time in log file from UTC to local time changed  |
| V2.04           | 20090630     | Automatic modulation recognition changed<br>PPM-Uni only 6-9 chanel; PPM12 is detected separately<br>Reason : different servo center position  |
| V2.05           | 20090714     | Internal improvement<br>Watchdog impuls extended   |
| V2.06           | 20090716     | USB-timing changed   |
| V2.07           | 20090903     | Flash code for country optimized<br>Internal optimizations   |
| V2.08           | 20091008     | no change (generated automatcally)   |
| V2.10 to V2.26  |              | Internal version   |
| V2.30           | 20100702     | <b>Check if appropriate firmware version installed in the receiver</b><br>Flashing code changed<br>Telemetry, speech output for GPS-Module and LinkVario<br>Opportunity to control receiver  |
| V2.33           | 20101012     | Calculation at 400A current sensor corrected<br>Various internal improvements  |
| V2.35           | 20110406     | Fix problems loading language file in conjunction with „slow“ microSD cards  |
| V2.36 to V2.49  |              | Internal versions  |
| V2.50           | 2010720      | <b>Check if appropriate firmware version installed in the receiver</b><br>Preparation for für MUX-Box<br>Telemetry – optimized data stream<br>Additional modulations; more tolerant to „old“ transmitter<br>Depending on the modulation now up to 16 Channels<br>Reset for GPS with switching 3-times<br>Several bugs fixed on speech output<br>USB-Timing / connection optimized for PC |
| V2.51 to V2.54  |              | Internal versions  |
| V2.55           | 20110915     | Summ channel, slave mode added<br>Multi-Module for all versions<br>In BT-Versions new telemetry protokol   |
| V2.56 to V2.57  |              | Internal versions  |
| V2.57           | 20120427     | Error in speech at LinkVario fixed<br>Detection GPS-start position optimized   |
| V2.58           |              | Internal version   |
| V2.59           | 20120516     | „jerky“ servo movement at Futaba „FASST“ fixed.  |
| V2.60           |              | Internal version   |
| V2.61           | 20120622     | On some conditions language file was not loaded. - fixed<br>GPS-value is only spoken if GPS-Module is connected<br>LinkVario / Sleepmode – Voice output – fixed  |

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## DualReceiver „DR 12-22R series“:

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>   |
|-----------------|--------------|---|
| V1.xx           | 2008-        | Pre-series  |
| V2.05           | 20090714     | <b>Initial product version</b>  |
| V2.06           | 20090716     | USB-Timing changed  |
| V2.07           | 20090903     | Improper display on battery test fixed<br>Servo synchronization new status display<br>Slow funktion error on movement fixed<br>Gyro calibration changed   |
| V2.08           | 20091008     | Gyro ausblendung only uses the Min-/Max-curve   |
| V2.10 to V2.26  |              | Internal versions   |
| V2.30           | 20100702     | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Flashing code changed<br>Neue Werkseinstellung: Failsafe auf <b>Hold</b> geändert<br>Servo pulse delayed on startup<br>Back channel optimized<br>SCU-connector activated for telemetry<br>MultiModul-function<br>Servo auto sync now for 10 groups<br>Various internal improvements |
| V2.32           | 2010827      | Problem with input „externer Gyro“ fixed  |
| V2.33           | 20101012     | Calculation with 400A current sensor corrected<br>Various internal improvements   |
| V2.36 to V2.49  |              | Internal versions   |
| V2.50           | 2010720      | <b>Check if appropriate firmware version installed in the receiver</b><br>Preparation for für MUX-Box<br>Telemetry – optimized data stream<br>Depending on the modulation now up to 16 Channels<br>New Gyro programming (depending on version)<br>Internal fixes  |
| V2.51           | 2010812      |   |
| V2.52           | 2010826      | No change   |
| V2.53 to V2.54  |              | Internal versions   |
| V2.55           | 20110915     | No change   |
| V2.56           | 20110920     | Error on servo output fixed   |
| V2.58           | 20120118     | Servo output pulse can be selected (factory setting asynchronous).<br>Intermittent fault with GPS altitude fixed  |
| V2.59           | 20120516     | „jerky“ servo movement at Futaba „FASST“ fixed<br>Memory problem solved with telemetry data   |

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## DualReceiver "Micro-series":

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>   |
|-----------------|--------------|---|
| V1.xx           | 2008-        | Pre-series  |
| V2.00           | 20090403     | Erste Serienversion.  |
| V2.01           | 20090420     | Interne Optionen ( Programmstart optimiert - debug-log).  |
| V2.02           | 20090518     | Werkseinstellung Servopulsrate von 15ms auf 18ms geändert.  |
| V2.03           | 20090529     | Slowfunktion auch auf gemixte Servos.   |
| V2.04           | 20090630     | Vorbereitung für neue Versionen (Gyroempfindlichkeit erhöht).   |
| V2.05           | 20090714     | Keine Änderung (wurde automatisch generiert).   |
| V2.06           | 20090716     | Keine Änderung (wurde automatisch generiert).   |
| V2.07           | 20090903     | Blinkcode Failsafe lernen.<br>Gyrokalisierung geändert.<br>Slowfunktion Servo lief zuerst Mittelstellung an.  |
| V2.08           | 20091008     | Gyrosausblendung jetzt nur noch to Min-/Max-Kurve   |
| V2.10 to V2.26  |              | interne Versionen   |
| V2.30           | 20100702     | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Blinkcode geändert<br>Neue Werkseinstellung: Failsafe auf <b>Hold</b> geändert<br>Servoimpulse bei Start verzögert, d.h. kein Failsafe wenn kein Signal empfangen wurde.<br>Optimierter Rückkanal<br>SCU-Anschluss für Telemetrie aktiviert<br>MultiModul-Funktion (nur bei MultiModul Serie)<br>Möglichkeit für Kontrollempfänger; Master - Slave<br>Diverse interne Optimierungen |
| V2.33           | 20101012     | Berechnung bei 400A Strom-Sensor korrigiert<br>Diverse interne Optimierungen  |
| V2.36 to V2.49  |              | Interne Versionen   |
| V2.50           | 2010720      | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Preparation for für MUX-Box<br>Telemetry – optimized data stream<br>Depending on the modulation now up to 16 Channels<br>New Gyro programming (depending on version)<br>Internal fixes  |
| V2.51           | 2010812      |   |
| V2.52           | 2010826      | Learning Failsafe changed   |
| V2.53 to V2.54  |              | Internal versions   |
| V2.55           | 20110915     | MultiModul for all versions   |
| V2.56           | 20110920     | Error on servo output fixed   |
| V2.58           | 20120118     | Servo output pulse can be selected (factory setting asynchronous).<br>Intermittent fault with GPS altitude fixed  |
| V2.59           | 20120516     | „jerky“ servo movement at Futaba „FASST“ fixed.   |

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## DualReceiver "Smart series":

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>   |
|-----------------|--------------|---|
| V0.xx           | 201003       | Pre-series  |
| V2.30           | 20100702     | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Blinkcode geändert<br>Neue Werkseinstellung: Failsafe auf „Hold“ geändert<br>Servoimpulse bei Start verzögert, d.h. kein Failsafe wenn kein Signal empfangen wurde.<br>Optimierter Rückkanal<br>SCU-Anschluss für Telemetrie aktiviert<br>Diverse interne Optimierungen |
| V2.33           | 20101012     | Berechnung bei 400A Strom-Sensor korrigiert<br>Diverse interne Optimierungen  |
| V2.35           | 20101110     | Behebt Probleme beim Speichern von Failsafe und anderer Einstellungen   |
| V2.36 to V2.49  |              | Interne Versionen   |
| V2.50           | 2010720      | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Preparation for für MUX-Box<br>Telemetry – optimized data stream<br>Depending on the modulation now up to 16 Channels<br>New Gyro programming (depending on version)<br>Internal fixes<br>Sum channel   |
| V2.51           | 2010812      |   |
| V2.52           | 2010826      | Learning Failsafe changed   |
| V2.53 to V2.54  |              | Internal versions   |
| V2.55           | 20110915     | Sum channel, Slave modes inserted<br>MultiModul for all versions  |
| V2.56           | 20110920     | Error on servo output fixed   |
| V2.57           | 20111216     | Sum channel optimized   |
| V2.58           | 20120118     | Servo output pulse can be selected (factory setting asynchronus).<br>Intermittent fault with GPS altitude fixed   |
| V2.59           | 20120516     | „jerky“ servo movement at Futaba „FASST“ fixed.<br>Summenkanal: Nicht zugeordnete Servos jetzt Mittelstellung   |

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## Receiver "Clever series":

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>   |
|-----------------|--------------|---|
| V0.xx           | 201004       | Pre-series  |
| V2.30           | 20100702     | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Blinkcode geändert<br>Neue Werkseinstellung: Failsafe auf „Hold“ geändert<br>Servoimpulse bei Start verzögert, d.h. kein Failsafe wenn kein Signal empfangen wurde.<br>Optimierter Rückkanal<br>SCU-Anschluss für Telemetrie aktiviert<br>Diverse interne Optimierungen |
| V2.32           | 2010827      | Blinkcode korrigiert  |
| V2.33           | 20101012     | Berechnung bei 400A Strom-Sensor korrigiert<br>Diverse interne Optimierungen  |
| V2.35           | 20101110     | Behebt Probleme beim Speichern von Failsafe und anderer Einstellungen   |
| V2.36 to V2.49  |              | Interne Versionen   |
| V2.50           | 2010720      | <b>Check if appropriate firmware version installed in the transmitter module</b><br>Preparation for für MUX-Box<br>Telemetry – optimized data stream<br>Depending on the modulation now up to 16 Channels<br>Internal fixes<br>Sum channel  |
| V2.51           | 2010812      |   |
| V2.52           | 2010826      | Learning Failsafe changed   |
| V2.53 to V2.54  |              | Interne Versionen.  |
| V2.55           | 20110915     | Sum channel, Slave modes inserted<br>MultiModul for all versions  |
| V2.56           | 20110920     | Error on servo output fixed   |
| V2.57           | 20111216     | Sum channel optimized   |
| V2.58           | 20120118     | Servo output pulse can be selected (factroy setting asynchronus).<br>Intermittent fault with GPS altitude fixed   |
| V2.59           | 20120516     | „jerky“ servo movement at Futaba „FASST“ fixed.<br>Summenkanal: Nicht zugeordnete Servos jetzt Mittelstellung   |

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## Receiver "Tiny 5":

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>              |
|-----------------|--------------|----------------------------|
| V2.59           | 20120222     | Initial production version |

## MUX-Box:

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>               |
|-----------------|--------------|-----------------------------|
| V1.0x           | 2011-        | Prototype                   |
| V1.04           | 20110518     | Pre-series                  |
| V1.05           | 20110914     | Flowmeters inserted         |
| V1.06           | 20110920     | Flashing codes changed      |
| V1.08           | 20111215     | Error on RPM fixed          |
| V1.09           | 20120315     | Sensor Thermo 1200 inserted |

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## GigaControl - Software:

| <u>Version:</u> | <u>Date:</u> | <u>Notes:</u>  |
|-----------------|--------------|--|
| V1.xx           | 2008-        | Pre-series   |
| V2.01           | 20090420     | Initial production version   |
| V2.02           | 20090421     | Various adaptions<br>USB optimized.  |
| V2.03           | 20090429     | Various adaptions  |
| V2.04           | 20090504     | Various adaptions  |
| V2.05           | 20090604     | Various adaptions<br>Error in assignment servo 13-30 fixed   |
| V2.06           | 20090716     | No change (generated automatically)  |
| V2.07           | 20090903     | Various adaptions  |
| V2.08           | 20090916     | Screen size dynamically – Resolution of some smaller netbooks<br>NavView now up to 32 charts<br>Min / max-value fixed to all<br>Gyro information is cleared on "reset"<br>Language corrections entered<br>Security check before enter "Scan mode"  |
| V2.09           | 20091008     | Language corrections entered<br>Confirmation before deleting all servo setups  |
| V2.10 to V2.26  |              | Internal versions  |
| V2.30           | 20100702     | <b>Version check on appropriate firmware</b><br>Now 10 servo groups possible<br>Now 20 Value for „slow“<br>New factory settings: Failsafe changed to <b>Hold</b><br>MultiModul-function inserted<br>Default image in the receiver Tab<br>New Tab's telemetry / sensor - LinkVario<br>Various internal improvements   |
| V2.35 to V2.49  |              | Internal Versions  |
| V2.50           | 2010720      | <b>Version check on appropriate firmware</b><br>New tab for MUX-Box<br>New tab for Big Display<br>In „Transmitter configuration“ – New setup for bluetooth<br>In „Transmitter configuration“ - New modulations inserted<br>In „Configuration Servo“ - „crosshair“ for detailed settings<br>In „Configuration Servo“ - New Button „Assume failsafe“<br>In „NavView“ - „OLC“ output possible<br>In „NavView“ – new column „Time“<br>Telemetry – optimized data stream<br>Now up to 16 chanel depending on modulation<br>Internal optimizations |
| V2.51           | 2010804      | Error fixed when export *.kml and *gxp in NavView<br>In NavView LinkVario – speed in m/s und km/h  |
| V2.52 to V2.54  |              | Internal versions  |
| V2.55           | 20110915     | 16+ channels available (currently 14 channels in Futaba-transmitters)<br>Sum channel, slave mode inserted<br>Additional telemetry-protocol for BT  |
| V2.56           | 20110920     | Sum channel selection optimized  |
| V2.59           | 20120315     | New receiver Tiny5 added<br>Sensor Thermy 1200 for MUX-Box inserted  |

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## **GigaUpdate:**

| <b><u>Version:</u></b> | <b><u>Date:</u></b> | <b><u>Notes:</u></b>                              |
|------------------------|---------------------|---|
| V1.xx                  | 2008-               | Pre-series  |
| V2.00                  | 20090420            | Initial production version                        |
| V2.01                  | 20090905            | Automatic detection Com-Ports inserted            |
| V2.02                  | 20100510            | Update function for „Smart“ und „Clever“ inserted |
| V2.03                  | 20100705            | Versionsnummer in der Kopfzeile.                  |
| V2.04                  | 20110912            | Update function for „Futaba-Adapter“ inserted.    |
| V2.05                  | 20111114            | Update function for „Switch4“ inserted.           |
| V2.06                  | 20120222            | Update function for „Tiny5“ inserted.             |

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