

iX20 Spektrum™ AirWare™ Change Log

2023-Nov-21



Version 1.10.11

New Features

- Support for Spektrum Sky™ Remote ID
- Telemetry warning added for Turbine Max Pump Voltage
- New BNF model files added for new releases

Corrections & Improvements

- Taileron differential is now properly mixed to control surfaces
- Trim values are now processed properly when switching between flight modes for Aileron wing types
- Updated regulatory screens
- Turbine status messages are now properly displayed
- Dashboard screen properly orders telemetry screens to be displayed when gaps exist in the telemetry configurations
- German translation improvements
- Airware no longer crashes on Motor Curve screen when motor input is invalid
- Smart Battery telemetry now handles 0 Cycle data correctly
- "No Data" in ESC telemetry now handled properly

Version 1.09.07

New Features

- New BNF Model Presets added
- Added support for Combo Switches outside of mixing
- Added support for Logical Switches
- Programmable Mix names can now be edited
- The battery icon on AirWare dashboard now shows an indicator when charging
- The Product Information screen now has a button that will launch the Play Store app and display the AirWare app page
- LT/RT/LTT/RTT can now be assigned as stick trims (aileron, elevator, rudder and throttle)
- Trimmer switch setup has been moved from Digital Switch Setup to Analog Switch Setup so that they can be configured properly
- New Text to Speech macros has been added to announce Lowest Cell Voltage for Smart Battery telemetry
- Custom intervals can now be specified in Custom Reports in Audio Events
- The quick sleep button on the Sleep Mode screen has been changed from a press and hold to a swipe motion

Corrections & Improvements

- Configuration of rate values in mixes has been improved. Dragging sliders snaps to even percentage values. Separate buttons are available for incrementing by 1% or 0.1%
- Dashboard Setup Telemetry Panel "+" button now works properly after a selection is canceled
- Left or Right analog trims can now be used to activate a Timer
- Flaperon + Taileron no longer causes roll in tail surfaces
- RX Pack Capacity telemetry screen properly displays no data when Batt 2 is not present
- Menu Setup screen has been removed. Enabling My List is now located in the Model Details screen for a given model
- Invalid receiver information is no longer displayed in the Forward Programming screen prior to connecting to a receiver
- Values are displayed properly in Travel Adjust Screen in circumstances when channels are reversed
- Duplicate subcategory names are no longer allowed

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2023-Jan-23



- When an Emoji is included in a model name, it is replaced with an underline character when exporting an iSPM file
- Volume control UI has been updated
- When switching from V-tail A to V-tail B the left and right servo port assignments are maintained correctly
- Sequencer Activity no longer limits available channels for Channel A on a model imported from a radio with less channels
- Model Note menu now works properly in Dark Mode
- GPS Altitude value properly rounded for audio callouts
- Timer audio events no longer announce when changing models
- Lock feature now functions properly in all mixes
- Availability of turbine telemetry macros are now synchronized across the dashboard screens and gauge panels
- Smart Battery low voltage telemetry alarm configuration now defaults to 4.0v
- Analog trim range now functions correctly with a 30% range when step size set to one
- Turbine EGT is now available as an option on gauge/dashboard pages
- Sleep Mode dialog correctly shows state of Serial Port Power
- Model Select screen header bar is displayed properly
- Accurate values are displayed on the Flight Log telemetry screen when %Range is selected
- Programmable Mixes are now shown in the Digital Switch Setup screen when a switch is assigned as source
- Switch D2 and E2 now have a proper short display name
- Values are now saved on Heli Cyclic/Thro Mixing screen
- Mixing screen operation has been updated to be more intuitive

Version 1.08.11

New Features

- **14 Channel Support Mode-** 14 fully proportional channels with 2048 resolution and 22ms frame rate is now available when using the new 14 and 20 channel PowerSafe receivers.
- **Sailplane Camber Switch Selection-** In sailplane model type, the camber screen now allows all the switches and levers to be assigned as an input.
- **Renaming Channel Names** – The ability to edit channel names has been added to the Servo Setup screen.
- **Battery Percentage Macro** – A telemetry audio event macro has been added to announce the battery percentage when using a Smart Battery.
- **Telemetry Log Recording Enabled by Default** – An “Automatic” mode has been added to the telemetry recording settings. This is now the default, and the log is saved to the internal memory of the transmitter.
- **Single Column Mode to Display Models** – In the Model Utilities and Model Select screen there is a new option to display the list of models in a single column with larger model images.
- **Custom Categories** – Users can now create custom sub-categories within the currently available categories. A model can be also designated to be a “Favorite” and will be displayed in a new Favorites category tab.
- **Importing Audio Settings** - Audio Settings can now be imported from another model into the currently active model.
- **Max Amperage Display Reset** – In the Rx Pack Capacity telemetry screen, the maximum amperage is now displayed, along with a button to reset the maximum value.

Corrections & Improvements

- Programmable mixes now function properly after Channel Assign has been used to move control surfaces to non-standard channels.
- High/Low Labels in Servo Setup Travel and Absolute Travel are now displayed properly for non-English languages.
- Integrated and model timers now properly show values properly when greater than 24 hours.
- In Sailplane model type, motor channel is now labeled properly when a model is configured as a 4 Aileron/2 Flap
- Battery Not Charged for Flying alarm is now working properly
- Airware no longer crashes when User Defined 2 telemetry type is logged.

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2022-Feb-22

- Volume Controls entry in My List now displays the proper screen
- When using “Hybrid 11/22ms” Servo Mode, channels AX6 and AX7 are now hidden from use.

2021-September-02

Version 1.07.02

Corrections & Improvements

- An SD card importing bug was introduced in the previous update that prevented importing models from DX systems to iX systems. This has been corrected

Version 1.07.01

New Features

- **Updated Telemetry Text-to-Speech Macros** – All available Smart Telemetry parameters are now available as an audio event macro.
- **Telemetry Log Indicator** - An indicator on the dashboard has been added verifying that a telemetry log is being recorded

Corrections & Improvements

- The Timer Start/Stop functions now properly update in all conditions
- In Hybrid 11/22ms servo mode, the available channels are now being properly displayed
- Model import now ignores files that begin with a “.” dot/period
- Range Test on screen instructions now references “30 Paces” matching other Spektrum transmitters and the instructions
- Stick input resolution has been increased when D/R and EXPO screens are activated
- Audio Event Macros: When pressing the Back Button, the Android keyboard now continues to be properly displayed
- Several minor UI issues were corrected in the Servo Output Warning screen
- An issue with the Macro keyboard having a duplicate display when double pressing the Macros button has been corrected

Version 1.06.02

New Features

- **Linked or Independent Flap Speed** - The default is Linked, so all flap speed settings are common. When set to Independent, the times on each position can be separate, depending on switch position.
- In Sailplane model type Dual Elevator has been added as a Tail Option
- Newly released BNF Model Presets have been added
- More pre-installed model images to choose from

Corrections & Improvements

- The Stopwatch timer no longer announces Timer Start twice when assigned to an analog input trigger
- The Sequencer is now working correctly with X-Plus channels
- Sequencer switch logic is incorrect
- The Sequencer graphs now correctly displayed when using Step mode
- Sailplane FLAP > ELE mix now functions correctly
- In Sailplane model type, Camber Preset settings are now being applied correctly
- Thumbnail images in the model select screen are no longer distorted
- Legacy AS3X screen are now hidden when connected to newer receivers
- RPM value is now being maintained after a telemetry reset
- Elevon with dual rudder wing/tail type is now functioning properly
- Mix values are being maintained when changing assigned switch
- Preflight checklist updates are not being saved properly.
- The telemetry screens now properly reset the values after hibernating
- Gain are now adjustable in relative gain mode on AR636 or AR9350
- In Sailplane Model Type, Motor functions is retained when importing a model
- Timer telemetry is being reset when switching models
- iX20 Crashing with Smart Telemetry setup has been corrected

Version 1.05.02

New Features

- **Stick and Switch positions recorded via Telemetry Log** - The stick/switch positions are now recorded in real time when using the telemetry logging feature. These logs can be viewed using 3rd party PC programs.
- **Automatic File Backup**- Model files are now automatically backed up to internal storage when changing to another model. Also, upon initial update installation, every model file currently in-place will be backed up to the internal memory. *See instructions below to learn more.*
- **Direct access to pre-loaded BNF model files**- A BNF button has been added in the Add a New Model menu in the Model Utilities screen. This list is preloaded with all current and popular Bind-n-Fly and Plug and Play models, making it even easier to get started with new models. This list will be updated and expanded with future updates. *Please note – ALWAYS check control limits and directions for accuracy before initial flight.*

Corrections & Improvements

- **Telemetry Airware issue**- When using a GPS and Altitude sensor simultaneously, certain telemetry configurations could cause Airware to crash. This has been corrected.
- **Flap System Crow function**- 100% Crow values no longer causes servo twitching on ailerons
- **Legacy Receiver Compatibility**- Corrected servo “glitch” problem with older 22ms DSM2 and DSMX receivers.
- **Sequencer Graph issue**- When using a Sequencer in Step Mode, in some cases the channel values and switch position were not changing as expected. The graphs are now displayed correctly.
- **Register Transmitter**- At the bottom of the Product Information screen, once the TX is registered the Register Transmitter is replaced with Transmitter Registered.
- **Typo**- The "Receiver is Rebooting" screen has been corrected.
- **Power Safe Receivers**- The RX Pack Capacity/ Current readings format is now displayed in amps (not mA)
- **Audio Trim reports** - Audio trim report now function properly when activated
- **BNF model sequencer issue**- If a Sequencer function is added to a BNF model file the sequencer functions correctly
- **Model Names**- The model name length is now consistent throughout the system
- **DSM2 mode**- When selecting DSM2 in the Frame rate screen and then selecting Auto, the RXs no longer get stuck binding in DSM2 mode

2021-March-4

- **Sequencer w/ X-Plus-** When assigning X-Plus channel to the sequencer, the channels are now functioning correctly.

How to use Model Backup Feature

The backup .iSPM files are automatically saved to the `/sdcard/AirWareData/Backup` folder on the internal drive. These backups are created upon initial update and after every model change. The backup takes place in the background after model changes and will overwrite model files that match the original backup.

The following procedure can be used to view/access the backup .iSPM files on the internal drive to verify that they are there, or to copy them to somewhere else of your choosing, such as a SD card or to back up on a cloud drive

iX20

- Open File Manager app
 - Swipe down and select "Internal Storage"
 - At this point the path at the top should say: `> root > sdcard`
 - Select the `AirWareData` folder
 - Select the `Backup` folder
 - All backup .iSPM files will be located here
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The following steps can be used to import one of the backup files, if desired: (Note: Make sure there is not an SDCard in the external slot.)

- From the Dashboard main screen in AirWare, single press the model name in the upper left.
- Long-press Proceed to enter Model Utilities
- Select the three dot menu on the upper right and select Import Models
 - The initial path should be `/storage/emulated/0`
- Scroll down the list until you find the `AirWareData` folder and select it
- Select the `Backup` folder
- Select desired iSPM file for input

Version 1.04.11

New Features

- Smart Dashboard Screens have been enhanced with a new look and continuous graphical feedback
- Dark Mode has been added
- Added the ability to adjust the volume with the Knob and Slider inputs
- Timers can now be displayed on the Telemetry Dashboard screen
- When using Vario Telemetry, a button has been added to the screen allowing altitude to be zeroed
- 0.1 increments are now available on all p-mixes
- Importing NSPM (NX Series) format model files has been added
- A Throttle Cut option is now available that requires the throttle stick to be lowered to idle after selecting throttle hold to reactivate the throttle output
- A new Frame Rate screen with enhanced options is available
- In the Flap System Crow is now available when dual aileron and 1 or 2 flaps is selected as a wing type.
- A reversing option is available in the Flap System when throttle is selected as an input.
- Flap System Speed is now independently adjustable per switch position



Corrections & Improvements

- GPS Dashboard telemetry screen is now displaying metric values correctly
- Flight log telemetry warnings no longer trigger on invalid data
- If the receiver is powered off, and the last vario message received has a value higher than the minimum rate to trigger the vario tone, the tone will no longer continue to sound.
- When using an AR637T and a Smart ESC telemetry is now being properly displayed
- If the screen only is turned off Vario tones now continue to sound
- Entering Forward Programming mode Heli models has been improved
- Sequencer has minor display improvements
- Gyro trim in Heli Mode is assigned to the trimmer switches now function correctly
- Center tones have been corrected
- Disable the ability to select file extension when exporting files
- MyList no longer crashes when Forward Programming is selected
- Sailplane motor setting are now being imported correctly from SPM file

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2021-March-4

- French translations have been improved
- GPS telemetry now reports correct longitude if less than -100.
- AirWare now handles corrupt Smart Batt telemetry data
- Curved mixes are now properly saving Combo Switch settings
- In User Defined telemetry screens the sensors are now being displayed properly
- Updated TextGen telemetry processing
- Digital Switch Assignment screen no longer crashes if an unknown switch is used
- Vario graph should always be active
- 6SLipoMon telemetry sensor screen is displaying values correctly
- Telemetry log files are working correctly if an analog input is used as trigger
- Combo switch functionality has been enhanced
- Telemetry Dashboard Panels are maintaining their names when imported.
- Voice center tone import from NX to iX radios is functioning correctly
- Texts embedded within a macro expansion are now being translated
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NOTE: We've identified an issue in this and previous code versions when using older legacy DSMX 4- and 6-channel receivers. This issue can cause servos to "twitch" every 10 seconds. We are working on a solution and expect to correct this in the next release. If you are using one of the receivers listed below, we recommend re-binding in DSM2 mode (USA only) or use an alternate receiver.

The affected receivers are: AR6110, AR6115, AR6115E, AR6210, AR6255, AR400, AR600, AR6410, AR6410L, and AR6410LBL.

NOTE: We've identified an issue when updating to v1.04.11, from previous versions. The issue stems from a specific telemetry configuration and its effect on the new Smart Dashboard screen. The problem arises when you have a GPS sensor configured in addition to an Altitude and/or AirSpeed sensor, and specifically if you have GPS configured in the list BEFORE the Altitude and AirSpeed sensor. If you go into Model Setup -> Telemetry and look at the list of sensors, they are numbered 1 through 12. If the GPS sensor is configured and it is earlier in the list than Altitude or AirSpeed, then before you perform the update to v1.04.11, you will want to change the order of those sensors.

There are several ways you can accomplish this. The simplest being you can delete all the sensors in the list and then perform an Auto-Config, verifying that it put the sensors in the proper order. You will want to make note of any settings you have for those sensors before you delete them so that you can re-configure them properly.

We are working on a solution and expect to have a fix in the next release so that order will no longer matter. In the meantime, hopefully the above information will help ease some concerns when updating to the latest version.

If you have questions or concerns, feel free to reach out to our support team at productsupport@horizonhobby.com



Version 1.03.12

Corrections & Improvements

- When programming a Custom Report using the Combo Switch w/Throttle Stick could cause a short duration loss of RF. This has been corrected.
- In Forward Programming orientation images for new receivers are now included.

Version 1.03.07

Corrections & Improvements

- In the previous update Dual Rate and EXPO were not being properly applied to existing model after the update. This has been corrected.
- In Heli mode the Dual Rate and EXPO switch options are now selectable.
- The wireless trainer system is now working correctly as an instructor.
- Existing templates are no longer being lost when the system is updated

Version 1.03.03

New Features

- Bind N Fly and SAFE models are now supported with 2 templates for streamlined model setup.
- Switch B is now defaulted to channel 7
- Available flight modes in air have been increased to 10
- More curves are available in DR/Expo, Throttle Curve, Acro Pitch Curve, 1Axis Gyro Curve and Flap to Elevator Mix to support the additional flight modes
- Cyclic Sequencing is now supported. Used for programming continuous flashing lights, creating repeated moving accessories etc.
- The default for digital switch positions when using more than three flight modes has been changed to integrate the up to 10 available flight modes in the AR637T AS3X receiver.
- Dashboard screen now allows Temp/RPM/Volts to be added after the ESC is configured

Corrections & Improvements

- Left and Right trimmers are now working properly when set as Flight Mode trims
- The default frame rate is now set to 22ms When using Smart Telemetry

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2020-August 14



- When Auto Config is applied, existing telemetry screens not in use will be removed from the telemetry screen for that model.
- Smart Battery & SMART ESC screens have been improved
- TextGen telemetry screen display now correctly displays the characters
- AirWare crashing when accessing certain Gauges has been corrected
- G-Force Telemetry is now properly displayed
- TextGen now properly updates after telemetry is reset
- RSSI warning is now functioning correctly
- The Flap System is now handling analog inputs (mixing function) correctly
- The Gyro function in ACRO is now supported in all flight modes



Version 1.02.06

New Features

- **New model images-** of the latest aircraft releases have been added
- **Startup Sounds-** An option was added to allow the startup sound to be deactivated
- **AR637T Support-** Forward Programming has been updated to support the new AR637T AS3X / SAFE receivers

Corrections & Improvements

- **Using mp3 files-** When using an mp3 file for an audio event, you can now “trigger” it an unlimited number of times
- **Templates-** When saving a file as a template, binding alerts are now properly stored and retained when creating a new model from that template.
- **Double tapping a Pop Up screen-** no longer results in double selecting 2 of the same boxes
- **Timer Tones-** After the timer expires, the timer start audio tone is now functioning.
- **Audio Event/ Combo Switch-** In Audio Event/Custom Report/Combo Sw using 2 switches and the “and” function no longer causes a crash
- **Importing Tail types-** When importing a model with a V-Tail, the elevator and rudder functions are now properly being applied.
- When editing a gauge panel, the application no longer occasionally crashes
- **Wired Trainer-** instructor mode is now functioning properly
- **The AS3X Menu-** only appears when the telemetry function is enabled.
- **GBoard-** With the previous update, Play Store’s installed GBoard application, caused the UI for the keyboard to be corrupted. This has been corrected.
- **Heli Mode My List-** In heli mode with any Swash type selected besides normal, selecting and using My List could cause a crash. This has been corrected.
- **Sequencer-** When using X+ Channels with the Sequencer the app would sometimes crash. This has been corrected.
- **In Telemetry File Logging-** the On switch is no longer an option
- Setting LTrimA or RTrimA as switch source for telemetry no longer causes AirWare to crash



Version 1.01.08

New Features

- **Direct Model Image Access-** Long pressing the model image on the main screen takes you to the image select screen allowing direct access to model images
- **Program Mix Reset-** A reset button has been added in program mix screens to inhibit all values and functions of the entire mix
- **Model Search Function-** A search function has been added in the model select page allowing easy access to any stored model
- **Wired Trainer-** now available

Corrections & Improvements

- **Touch Switch Sensitivity-** touch sensitivity has been improved plus a screen has been added that allows the touch sensitivity of switches and sticks to be adjusted.
- **Top Trim Audio Reports-** are now announcing in the correct direction
- **Switch and Touch Switch order-** has been reorganized in the switch selection menu for improved intuitiveness.
- **Cyclic to Throttle Mix-** in heli mode now functions correctly.
- **Analog Input Warnings-** no longer cause erroneous entries
- **Telemetry Settings Units-** No longer reverts to US units if set to Metric
- **Preflight Checklist-** settings are now importing properly

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2019-November-07



Version 1.00.05

Initial Release