Introduction

Thank you for purchasing the FrSky 2.4GHz ACCST TARANIS X9E digital telemetry radio system. In order to make the best use of your system and fly safely, please read this manual carefully. If you have any difficulties while using your system, please consult the manual, your hobby dealer, or FrSky technical support.

Due to unforeseen changes in production, the information contained in this manual is subject to change without notice.

Means of Special Markings

Pay special attention to safety as indicated by the following marks:

- **DANGER** - Procedures which may lead to dangerous conditions and cause death/serious injury if not carried out properly.

- **WARNING** - Procedures which may lead to a dangerous condition or cause death or serious injury to the user if not carried out properly or procedures where the probability of superficial injury or physical damage is high.

- **CAUTION** - Procedures where the possibility of serious injury to the user is small, but there is a danger of injury, or physical damage, if not carried out properly.

- **Dangerous** - Mandatory; **Prohibited** - Prohibited.

Warning: Always keep electrical components away from small children.

Website: www.frsky-rc.com                      E-mail: frsky@frsky-rc.com                       Technical Support: sales4tech@gmail.com

Model Name: TARANIS X9E

Number of Channels: 16 Channels (extensible to 32 channels)

Operating Voltage Range: 5–15V (5S, 300mAh losses are acceptable)

Operating Temperature: -10° to 60°

Backlight LCD Screen: 128*240

Model Memories: 60 (extensible by SD card)

Compatibility: FrSky X series, D series and V8-II series receivers (plus other receivers if an external module is used)

TARANIS X9E-EU version is only compatible with X series receiver EU version.

Features

- Quad Ball Bearing Gimbal
- Receiver Match
- Audio Speech Outputs (values, alarms, settings, etc.)
- Antenna Status Detection and Adjustment
- Real-time Flight Data Logging
- Switch Numbers Extendable
- Receiver Signal Strength Indicator (RSSI) Alerts
- Super Low Latency
- Smart Port Protected
- Vibration Alerts
- Bluetooth

Battery Connector Polarity

Ensure that the battery connector polarity is correct when connecting batteries other than the provided 8-cell NiMH battery into the battery compartment, otherwise the TARANIS X9E might not be powered on.

Notice:

1. Please connect the provided battery in the battery compartment before use.
2. The eight-cell NiMH battery is for use only in your TARANIS X9E.
3. Be sure to use the built-in battery charger to charge the battery.
4. Be careful not to drop the battery.
5. Don’t pull the battery wires as this could produce short-circuits and cause the battery to explode.
6. Do not remove the battery from the TARANIS X9E transmitter while the voltage warning is blinking as this could cause internal settings and memories to be destroyed.
7. Do not use the transmitter if a “Backup Error” warning occurs.
8. Be sure to turn off the TARANIS X9E before changing the battery.
9. The Power Indicator LED will be on during charging, and be off after the charging is finished.

Specifications

- Number of Channels: 16 Channels (extensible to 32 channels)
- Operating Voltage Range: 5–15V (5S, 300mAh losses are acceptable)
- Operating Temperature: -10° to 60°
- Backlight LCD Screen: 128*240
- Model Memories: 60 (extensible by SD card)
- Compatibility: FrSky X series, D series and V8-II series receivers (plus other receivers if an external module is used)
- TARANIS X9E-EU version is only compatible with X series receiver EU version.

Features

- Quad Ball Bearing Gimbal
- Receiver Match
- Audio Speech Outputs (values, alarms, settings, etc.)
- Antenna Status Detection and Adjustment
- Real-time Flight Data Logging
- Switch Numbers Extendable
- Receiver Signal Strength Indicator (RSSI) Alerts
- Super Low Latency
- Smart Port Protected
- Vibration Alerts
- Bluetooth

Battery Connector Polarity

Ensure that the battery connector polarity is correct when connecting batteries other than the provided 8-cell NiMH battery into the battery compartment, otherwise the TARANIS X9E might not be powered on.

Notice:

1. Please connect the provided battery in the battery compartment before use.
2. The eight-cell NiMH battery is for use only in your TARANIS X9E.
3. Be sure to use the built-in battery charger to charge the battery.
4. Be careful not to drop the battery.
5. Don’t pull the battery wires as this could produce short-circuits and cause the battery to explode.
6. Do not remove the battery from the TARANIS X9E transmitter while the voltage warning is blinking as this could cause internal settings and memories to be destroyed.
7. Do not use the transmitter if a “Backup Error” warning occurs.
8. Be sure to turn off the TARANIS X9E before changing the battery.
9. The Power Indicator LED will be on during charging, and be off after the charging is finished.

Specifications

- Number of Channels: 16 Channels (extensible to 32 channels)
- Operating Voltage Range: 5–15V (5S, 300mAh losses are acceptable)
- Operating Temperature: -10° to 60°
- Backlight LCD Screen: 128*240
- Model Memories: 60 (extensible by SD card)
- Compatibility: FrSky X series, D series and V8-II series receivers (plus other receivers if an external module is used)
- TARANIS X9E-EU version is only compatible with X series receiver EU version.

Features

- Quad Ball Bearing Gimbal
- Receiver Match
- Audio Speech Outputs (values, alarms, settings, etc.)
- Antenna Status Detection and Adjustment
- Real-time Flight Data Logging
- Switch Numbers Extendable
- Receiver Signal Strength Indicator (RSSI) Alerts
- Super Low Latency
- Smart Port Protected
- Vibration Alerts
- Bluetooth

Battery Connector Polarity

Ensure that the battery connector polarity is correct when connecting batteries other than the provided 8-cell NiMH battery into the battery compartment, otherwise the TARANIS X9E might not be powered on.

Notice:

1. Please connect the provided battery in the battery compartment before use.
2. The eight-cell NiMH battery is for use only in your TARANIS X9E.
3. Be sure to use the built-in battery charger to charge the battery.
4. Be careful not to drop the battery.
5. Don’t pull the battery wires as this could produce short-circuits and cause the battery to explode.
6. Do not remove the battery from the TARANIS X9E transmitter while the voltage warning is blinking as this could cause internal settings and memories to be destroyed.
7. Do not use the transmitter if a “Backup Error” warning occurs.
8. Be sure to turn off the TARANIS X9E before changing the battery.
9. The Power Indicator LED will be on during charging, and be off after the charging is finished.

Specifications

- Number of Channels: 16 Channels (extensible to 32 channels)
- Operating Voltage Range: 5–15V (5S, 300mAh losses are acceptable)
- Operating Temperature: -10° to 60°
- Backlight LCD Screen: 128*240
- Model Memories: 60 (extensible by SD card)
- Compatibility: FrSky X series, D series and V8-II series receivers (plus other receivers if an external module is used)
- TARANIS X9E-EU version is only compatible with X series receiver EU version.
FCC Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

Make sure you set the country code to your corresponding country to match the regulations.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

CE
The product may be used freely in these countries: Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.
France: the law permits the emission band 2400 to 2483.5 MHz with the limitation of transmission power of 100 mW (reduced to 10 mW between 2445 and 2483.5 MHz for outdoor flying).

FLYING SAFETY
⚠️ Warning:
- To ensure the safety of yourself and others, please observe the following precautions.
- Have regular maintenance performed. Although your TARANIS X9E protects the model memories with non-volatile EEPROM memory (which does not require periodic replacement) and of a battery, it still should have regular check-ups for wear and tear. We recommend sending your system to your FrSky Service Center annually during your non-flying-season for a complete check-up and service.

Battery
- Charge the batteries! Using the standard Taranis battery and charger, always recharge the transmitter and receiver batteries for at least 8 hours before each flying session. A low battery will soon do, causing loss of control and a crash. When you begin your flying session, reset your transmitter's built-in timer, and during the session pay attention to the charging status. Also, if your model uses a separate receiver battery, make sure it is fully charged before each flying session.
- Stop flying long before your batteries become low on charge. Do not rely on your radio’s low battery warning systems, intended only as a precaution, to tell you when to recharge. Always check your transmitter and receiver batteries prior to each flight.

 nickel-metal hydride Battery Safety and Handling instructions

IMPORTANT! The Nickel-Metal Hydride battery (NiMH) batteries included in the TARANIS X9E transmitter are not to be confused with Lithium-Polymer (LiPo) batteries, or any other type of rechargeable battery (including NiCADD and LiFe). NiMH batteries require special charging criteria different than other rechargeable batteries. Use only the FrSky transmitter charger included with this set for, or other chargers approved by FrSky, to charge the NiMH batteries in the TARANIS X9E transmitter.

- Do not attempt to disassemble NiMH packs or cells.
- Do not allow NiMH cells to come in contact with moisture or water at any time.
- Always provide adequate ventilation around NiMH batteries during charge, discharge, while in use, and during storage.
- Do not leave a NiMH battery unattended at any time while being charged or discharged.
- Do not attempt to charge NiMH batteries with a charger that is NOT designed for NiMH batteries, as permanent damage to the battery and charger could result.
- Always charge NiMH batteries in a fireproof location. Do not charge or discharge NiMH batteries on carpet, a cluttered workbench, near paper, plastic, vinyl, leather or wood, or inside an R/C model or full-sized automobile. Monitor the battery charge with a smoke or fire alarm.
- Do not charge NiMH batteries at currents greater than the “C” rating of the battery (“C” equals the rated capacity of the battery).
- Do not allow NiMH cells to heat up at any time! Cells which reach greater than 140 degrees Fahrenheit (60°C) should be placed in a fireproof location.
- NiMH cells will not charge fully when too cold or allow full charge.
- It is normal for the batteries to become warm during charging, but if the charger or battery becomes excessively hot disconnect the battery from the charger immediately! Always inspect for potential damage any battery which has previously overheated for potential damage, and do not use if you suspect it has been damaged in any way.
- Do not use a NiMH battery if you suspect physical damage has occurred to the pack. Carefully inspect the battery for even the smallest of dents, cracks, splits, punctures or damage to the wiring and connectors. DO NOT allow the battery’s internal electrolyte to get into eyes or on skin—washed affected areas immediately if they come in contact.

MicroSD Card

The MicroSD card (TF Card) in Taranis X9E can store various files, such as model data, music, sound files, pictures and text. The card is locked when it is pushed in all the way. To remove the card, push in on the card again, it will pop out allowing you to remove it.

Secure Digital (SD) Memory Card Handling Instructions

FCC Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

Make sure you set the country code to your corresponding country to match the regulations.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

CE
The product may be used freely in these countries: Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.
France: the law permits the emission band 2400 to 2483.5 MHz with the limitation of transmission power of 100 mW (reduced to 10 mW between 2445 and 2483.5 MHz for outdoor flying).

FLYING SAFETY
⚠️ Warning:
- To ensure the safety of yourself and others, please observe the following precautions.
- Have regular maintenance performed. Although your TARANIS X9E protects the model memories with non-volatile EEPROM memory (which does not require periodic replacement) and of a battery, it still should have regular check-ups for wear and tear. We recommend sending your system to your FrSky Service Center annually during your non-flying-season for a complete check-up and service.

Battery
- Charge the batteries! Using the standard Taranis battery and charger, always recharge the transmitter and receiver batteries for at least 8 hours before each flying session. A low battery will soon do, causing loss of control and a crash. When you begin your flying session, reset your transmitter's built-in timer, and during the session pay attention to the charging status. Also, if your model uses a separate receiver battery, make sure it is fully charged before each flying session.
- Stop flying long before your batteries become low on charge. Do not rely on your radio’s low battery warning systems, intended only as a precaution, to tell you when to recharge. Always check your transmitter and receiver batteries prior to each flight.

MicroSD Card

The MicroSD card (TF Card) in Taranis X9E can store various files, such as model data, music, sound files, pictures and text. The card is locked when it is pushed in all the way. To remove the card, push in on the card again, it will pop out allowing you to remove it.

As the MicroSD card is a precision device, do not use excessive force when inserting.

As the MicroSD card is a precision device, do not use excessive force when inserting.

Updates
FrSky is continuously adding features and improvements to our radio systems. Updating (via the pre-installed MicroSD card in the top of Taranis X9E) is easy and free. To get the most from your new transmitter, please check the download section of the FrSky website at www.frsky.co, for the latest update firmware and how-to guide.

All FrSky radio systems will have open source firmware. Do not hesitate to contact FrSky if you have ideas and suggestions for current and future radio systems, or if you are interested to join the FrSky development team to be part of the projects.

* The currently pre-installed firmware of FrSky Taranis X9E is modified openTX firmware, improved and well tested by FrSky and the developing union.
* More information about openTX can be found on: rhttps://github.com/openpilot/