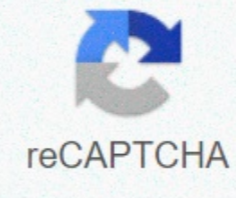




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## Sp racing f3 deluxe manual

Рейтинг: 0 Голосов: 0 6022 просмотра Комментарии () Нет комментариев. Ваш бюджет первым! cleanflight Seriously Pro Racing F3 (SPRacingF3) is the first disc specially designed for Cleanflight. Purchase boards directly from SeriouslyPro/SP Racing and official retailers help fund the Cleanflight development, that's the reason Seriously Pro discs exist! Official resellers are always listed on SeriouslyPro.com website. Full information available on the website, here: hardware features No compromise I/O. Use all features all the time; for example, CONNECT OSD + SmartPort + SBus + GPS + LED Strip + Battery Monitoring + Sonar + 8 engines - all at the same time! High capacity black box flight log - optimize tuning and see installation results without guesswork. (Acro and Deluxe) Next-generation STM32 F3 processor with hardware floating point unit for powerful flight calculations and faster ARM-Cortex M4 core. Stackable design - perfect for integration with OSD and power distribution plates. 16 PWM I/O lines for ESC, Servo and old receivers. 8 is available for standard nasta headlines. 8 through the side connectors. Supports SBus, SumH, SumD, Spektrum1024/2048, XBus, PPM, and PWM receivers. No external inverter required (built-in). Dedicated output in programmable LED programmable LEDs - great for orientation, racing and night flight. Separate I2C port for OLED display connection without flight battery. Battery control gates for voltage and power supply. Buzzer port for voice warnings and notifications. Soldering pads in addition to sonar, PPM, RSSI, Current, GPIO, LED Strip, 3.3v, Developer-friendly debugging port (SWD) and boot mode selection connectors, unseparable boot charger. Symmetrical design with very neat wiring. Connect the cables with pin headers, JST-SH sockets or soldering pads. Use either rectangular or straight pin headers. The barometer mounted on the bottom of the board makes it easier to isolate the wind. Serial ports value code RX TX 5v Tolerant Notes 1 USART1 PA10 PA9 YES Internally connected to a USB port via CP2102 IC. Also available in the USART1 JST connector and through perforation pins. 2 USART2 PA15 PA14 YES Available only on the USART2 JST port. 3 USART3 PB11 / IO2\_3 PB10 / IO2\_4 NO Available IO\_2, USART3 JST port and through hole pins. SWD and USART2 cannot be used at the same time. You may experience flashing issues if you have something connected to usart1 RX/TX pins. Turn on and/or unplug other devices. Pinouts Full pinout information is available in the user manual IO\_1: IO\_1 the 8-pin RX\_PARALLEL\_PWM connector has the following pinouts. Pin function Remarks 1 2 VCC\_IN BEC:n toimitama jännite. 3 RC\_CH1 4 RC\_CH2 5 RC\_CH5 6 RC\_CH6 7 7 Take the LED\_STRIP 8 VCC 3.3v output to LOW CURRENT only when RX\_PPM/RX\_SERIAL is enabled, IO\_1 pinout is as follows. Pin function Notes 1 Earth 2 VCC\_IN voltage supplied by BEC. 3 RX\_PPM Enable feature RX\_PPM 4 GPIO 5 SoftSerial1\_RX 6 SoftSerial1\_TX 7 LED\_STRIP Enable feature LED\_STRIP 8 VCC 3.3v output for LOW CURRENT only the IO\_2 8-pin IO\_2 connector has the following pinouts when used in RX\_PARALLEL\_PWM mode. Pin function Notes 1 Earth 2 VCC\_IN voltage supplied by BEC. 3 RC\_CH3 4 RC\_CH4 5 RC\_CH7/SONAR\_TRIG 6 RC\_CH8/SONAR\_ECHO 7 ADC\_1 Power sensor 8 ADC\_2 RSSI When RX\_PPM/RX\_SERIAL-IO\_2 is used, the IO\_2 pinout is as follows. Pin function Notes 1 Earth 2 VCC\_IN voltage supplied by BEC. 3 RX\_SERIAL UART3 RX 4 UART3\_TX 5 SONAR\_TRIG/SoftSerial2\_RX Enable feature SONAR/SOFTSERIAL 6 SONAR\_ECHO/SoftSerial2\_TX Enable sonar/SOFTSERIAL 7 ADC\_1 Power sensor 8 ADC\_2 RSSI UART1/2/3 Sting function notes 1 Earth 2 VCC\_IN Voltage included BEC. 3 TXD 4 RXD I2C-press function Note 1 Earth 2 5.0v Voltage supplied by BEC OR USB, up to 3 SCL 4 SDA SWD Ports cannot be used concomitantly with UART2. Pin Function Notes 1 Country 2 NRST 3 SWDIO 4 SWDCLK Built with MkDocs Using a theme provided by Read the Docs. Контроллер планера SP Racing F3 это сердце вашего полетного аппарата, как для FPV гонок, акробатических планеров так и для аэрофото съемки. Он построен на новом технологичном и быстром процессоре F3, чтобы ваши полеты проходили как по рельсам. Поддерживает различные летательные средства: самолеты, тights, quadcopters, hexacopters, octocopters и многое другое. Данная версия Deluxe идет с гармометром и комасом. Освоенности Работы всех функций одновременно: OSD + SmartPort + SBus + LED Strip + Battery Monitoring + Sonar + 8 моторов. Настройка SPRacingF3 происходит через CleanFlight исмолммммм кросс-платформенный графический интерфейс (Windows/OSX/Linux). Тонкая и легковесная. Полетный черный ящик записывающий все происходящее в логи. Новый процессор ARM Cortex-M4 72Mhz CPU с Math со-процессор (FPU) для эффективных расчетов, который делает больше за меньшее время. Неубиваемый загрузчик. OneShot ESC для быстрой реакции в управлении моторами. Широкая поддержка SumH, SumD, Spektrum1024/2048, XBus, PPM, PWM. Programmed outputs for LED lighting. Voltage control port and current battery. The gate to the squeak. A permanently connected I2C port is ideal for external sensors and an ever-functioning OLED display, replace the range. Processor Characteristics: STM32F303 CPU, 72Mhz inc FPU Accelerometer/Gyroscope Sensor: MPU6050 Barometer: MS5611 Compass: HMC5883 High Capacity Flash Connectors: MicroUSB 2 x 8pin JST-SH Socket (PPM, PWM, SERIAL RX, GPIO, ADC, 3V, 5V, GND) 8 x 3pin shaft holes for silnt labels ESC/Servo connections 2 x 4pin holes for loss tellers 2x serial ports 1 x 2pin axis holes for battery voltage 1 x 2pin axis holes for the buzzer 1 x 4pin JST socket I2C 1 x 4pin JST-SH socket for SWD debugging Dimensions: 36x36mm plate with mounting holes 30.5mm Weight: 6g FileInstruction for SP Pro Racing F3 The English website has a debugging system. Look for inaccuracies in the text, highlight it, and click on the Ctrl and Enter. Osd-powered Deluxe Flight controller is designed to deliver high flight performance based on tried and tested sensors, while providing extensive input and output capabilities in a small and ultra-lightweight shape factor using a next-generation processor. The built-in display uses MWODS firmware and is compatible with Cleanflight, Betaflight, and Baseflight drivers. The compact design uses an external USB-TTL adapter (included in the series) in flight controller and OSD settings. E3 deluxe gives you all the features you need for the heart of a drone. whether you're in an FPV race, acrobatic flight or aerial photography. Features: No input/lift compromises. You can use all features all the time q High capacity black box on board Recorder - Optimize setting and see installation results without guessing - Next generation STM32 F3 processor with floating point device unit for powerful flight calculations and faster ARM Cortex-M4 q OSD function, support for built-in software K/VteamOS MWD q Supports OSD features such as Basic Volts, AMPS, timer q RSSI. Stackable design - perfect for integration with electricity distribution shields. 16 PWM entry/output line for ESC, servos and obsolete receivers. 8 is available for standard contact headers. 8 Side Connectors q Full Support oneShot ESC facilitates PID control settings and sharper response q Support for SBus, SumH, SumD, Spektrum1024/ 2048, XBUS, PPM and PWM receivers. No external converters required (embedded) - Special output for programmable LED connections - excellent for orientation, racing and night flights q Dedicated port for connecting I2C OLED display q Battery monitoring ports for voltage and power q Support probe for accurate low altitude retention q summer gate sound warnings and notifications q Developer-friendly port debugging (SWD) and selection of charging mode, unbrickable loader, symmetry design super neat wiring Use a barometer in the direction of either rectangle or straight stub mounted on the bottom of the plate for light wind insulation q number of cycles up to 2x as fast as STM32F1 sheets based on previous generation q Assembly Flight using the cross-platform GUI (Windows/OSX/Linux) q Support for various drones such as airplanes, tricopters, quadcopters, hexacopters, octocopters and more Specifications: Dimensions: 36x36mm board with 30.5 mounting holes Weight: 5g Processor: STM32F303 CPU with FPU 256Kb Flash Size: 8MB (64Mbps) High-aiх Capacity Flash (Acro and Deluxe) Accelerometer / Gyroscope: MPU6050 Barometer: MS5611 Magnetometer (compass sensor): HMC5883 Connectors: 2x 8pin JST-SH Nests (PPM, PWM, RESTRY RX, GPIO, ADC, 3V, 5V,

GND), 2x 5Pin JST-SH sockets (OSD Setup, F3 SETUP), 1x Nest 4pin JST-SH (SWD), 8x 3pin al-holes for contact headers or ESC joints/servo, 2x 4pin though-holes for contact headers (I2C, UART), 1x 4pin, although openings for head pins (VIDEO pass), 2x 2Pin, although holes for head pins (battery voltage , summeri) Sisältää : Deluxe F3 Flight Controller sisäänrakennetuilla OSD PWM- ja ESC-signaalivaljajilla Vaikka reikä on USB TTL TTL-sovitin TTL-sovitin

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