VLOS & BVLOS REMOTE CONTROL TRANSMITTER

THE SAFEST MODULAR RC SYSTEM FOR INDUSTRIAL DRONE, ROV AND UGV

NOVA USCT SERIES

NOVA UNMANNED SYSTEMS CONTROL TRANSMITTER

The Nova USCT is the perfect pilot remote control station for drones and unmanned systems. It has been designed for VLOS, BVLOS and Tethering applications ranging from drones to UGVs and ROVs, or virtually any type of remote vehicle where a robust human machine interface with graphical user interface is needed for safety and efficiency.

*The photo shows the USCT unit with the optional RAM mount tablet holder and tablet. Parts not included in the standard system price.

Compatible with

PX4 autopilot · APM MULTIPLATFORM AUTOPILOT · MAVLINK MICRO AIR VEHICLE COMMUNICATION PROTOCOL · APM PLANNER · QGroundControl

HOUSING	Impact Resistant Polymer Composite	**WEIGHT**	1.8kg (3.97lbs.) May vary depending on configuration
DIMENSIONS	37 (W) x 22 (D) x 18 (H) cm 14,56 (W) x 8,66 (D) x 7,08 (H) Inch	**OPERATING TEMPERATURE/ HUMIDITY RANGE**	-20C to +70C (-4F to +158F) 0 to 97% max. non-condensing
ENVIRONMENTAL PROTECTION	Min IP 65 (Exceeds Nema 12/13)	**POWER SUPPLY**	3.6V 9Ah rechargeable Li-Ion or 5 to 36V via cable control
STANDARD CONTROL OPTIONS	• 3-Axis Control/Cyclic joystick for Roll/Nick/Yaw (RNY) • Single Axis center-spring joystick for Throttle/Collective • Configurable 6-position Flight-Mode selector • Two preconfigured Arming buttons • 6 user configurable toggle switches • 5 user configurable push-buttons (4 with backlight) • Emergency Stop / Flight Termination switch • Customized controls, layout and labeling available	**MAIN FEATURES**	• Industrial grade Radio Remote Control System • Sunlight readable 4.3" backlit color MFD with 5 MFD configurable buttons and one dial-push button • Status LED for operation and std./advanced low battery detection • Stand-alone embedded secure encoder board • Single Board Computer with Linux OS for advanced graphics management and Bluetooth/ WiFi bridging with 8GB On-Board memory (Default). • Customized firmware and application available • PC-GUI application for radio configuration • TNC 2.4 GHz rubber duck antenna (Default). Various external/internal antenna options available • Multifunction military grade side connector • USB HID interface for PC joystick/gamepad emulation • Key power switch
ACCESSORIES/ OPTIONS	• Shoulder hook or chest harness • Rugged transportation case • Customer logo • Custom housing color and labeling • Mounts for tablets and video monitors • LTE BVLOS data link	**REMOTE RECEIVING UNIT**	• Default: Digital True Diversity 2.4 GHz Vehicle Data Terminal (VDT) with PPM, S.BUS, CAN, UART, IP and PWM interfaces compatible with almost all available autopilots and flight controllers • Option_1: FrSky ACCESS receiver unit • Option_2: Industrial IP data link with Vehicle Data Terminal (VDT) I/O board
		DATA LINK OPTIONS	• Default: Command & Control: Digital True Diversity 2.4Ghz @ 100 mW (+20 dBm) with downlink telemetry channel • Option_1: FrSky ACCESS fully compatible with FrSky ACCESS receivers and S.Port telemetry • Option_2: Industrial IP data link for C2 and video* • Option_3: Wired IP or RS232 through CC port • Option_4: Herelink HD video transmission link (in development) • Customized radio links on requests* *Country dependent licensed and non-licensed frequencies