

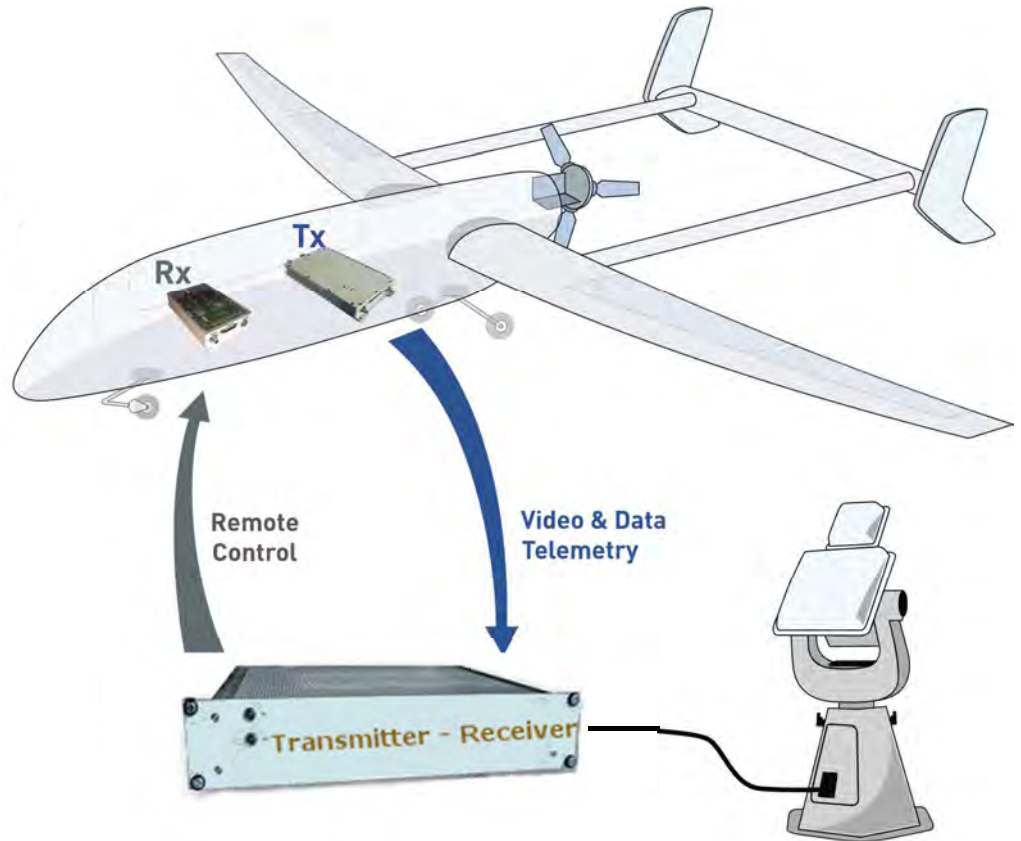
Viewsys offers complete solution for managing UAVs with data and video reconnaissance capability. We offer our System solution that provides short, medium and long-range capabilities.

Viewsys features full command & control for UAVs. It is an excellent solution to ground force projection and border security for line-of-sight and over the horizon. Being very light-weight and highly mobile, it supports rapid deployment.

Advanten works closely with you to deliver compelling design solutions tailored specifically to your needs. We offer the best value proposition by providing fast development of non-standard configurations at competitive prices.

FEATURES INCLUDE

- Tailorable data link modem transmitter and receiver
- Enhanced forward error correction
- Robust, secure, DSSS spread-spectrum with RAKE receiver, anti-jam capabilities
- GPS tracking system with a dedicated control & monitoring MMI software
- Streaming full-motion digital video compression with reception in less than 40 msec latency
- Enabled command and control up to 250 Km line of sight



SPECIFICATIONS

Radio

Frequency Range:	2200 – 2265 MHz
	2400 – 2480 MHz
	Specific frequencies on request
Output RF Power:	+13 to +40 dBm

Spread Spectrum DSSS with RAKE receiver

Code length:	11 to 255 chips
Code Rate:	25 Mchips/s

Interfaces (Configurable)

Data interface 1:	RS422 up to 4.4 Mbits/s
Data interface 2:	RS422 up to 4.4 Mbits/s
Data interface 3:	RS232 up to 115 kbits/s
Data interface 4:	RS232 up to 115 kbits/s

Video

Compression Standard:	JPEG2000 (Wavelet)
Video Standard:	PAL (NTSC in option)
	CVBS (Y/C or YUV in option)

Operating temperature -40 to +70°C

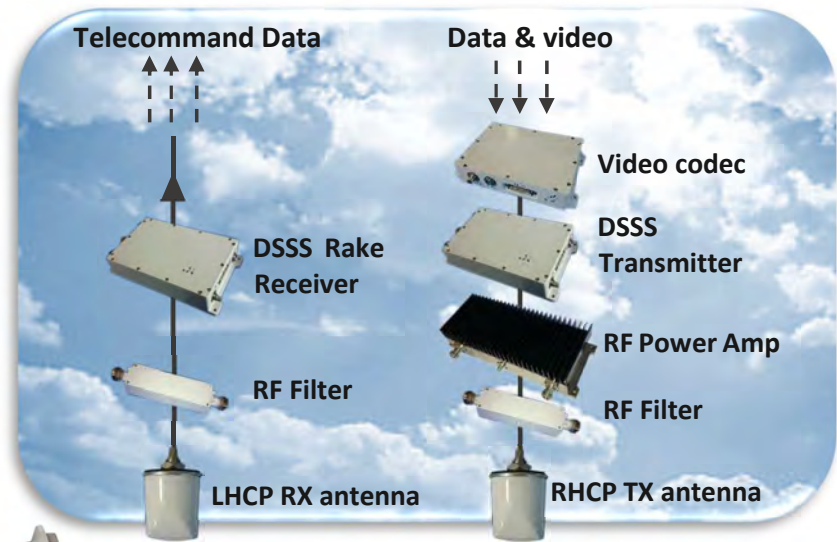
Turret

- 2 Axes positioner
- Axis speed up to 50 °/sec
- Antenna control & switches
- Compass (yaw, pitch, roll)
- Ethernet commands
- Adjustable tripod

Contact us for more detailed specifications



COMPLETE ON BOARD SYSTEM



GROUND STATION

Uplink Directional Transmit antenna

Uplink Omni Directional Transmit antenna

Downlink Directional Receiving antenna

Downlink Omni Directional Receiving antenna



Display Monitor

UpLink & Downlink Datalink rack receiver Telemetry & remote control

PC control & monitoring



SOFTWARE CONFIGURATION

- Adjustable radio parameters: radio channels, output power
- Selection of spreading and transmission mode
- I/O selection: synchronous serial (RS422) and/or asynchronous serial (RS232 and RS422)
- I/O adjustable bit rate
- Status: RSSI, temperature, state
- Video input selection with video adjustments
- Compressed video data rate set according to the radio transmitter raw data rate
- Adjustable frame rate for compromise between sharpness and refresh rate

MMI: Display & control

- GPS Tracking and system control
- Display of the system state
- Manual control an axes
 - Warning on GPS signal lost
 - Automatic antenna switching depending on the received RSSI level
 - Manual antenna switching
 - Polar graph displaying the mobile trajectory
 - Angular position presets
 - Logs
 - Modular design
 - Translatable

