VISLINK

ANTENNA

V-Link

Beam Forming Airborne Antenna Systems

The V-Link Series of beam forming auto-tracking antenna systems are specifically designed for airborne applications where a low-profile array is required. It provides superior directional performance when used in conjunction with other components of the Vislink Airborne Video Downlink System.

The V-Link Series was developed to deliver industry-leading reliability and features co-centered vertical polarized beams, steered together to point in one of 8-16* azimuth directions. Designed for the rigors and vibration of airborne use, the antenna contains no moving parts, unlike older kinetic designs that rely on pulleys, belts, and other components that are subject to expensive wear from general use, friction and vibration.

The V-Link Series is extremely effective, as it is comprised of multi-tier antenna panels symmetrically arranged to create maximum coverage, even during aircraft banking. This specific arrangement and design make the antenna optimally compact and ensures rapid handoff and seamless changeover as the beam progresses around the array. With simplified control and user interface, beam energy is automatically directed toward desired entered target sites as the aircraft moves or when a change in signal direction is commanded. To achieve maximum interoperability with leading mission systems, V-Link has been integrated to operate with Churchill (SHOTOVER Systems), Aero Computers (Recon Aerospace) and Trakka control.

** The product as pictured is limited to 8 beams. 16-beam models are also available upon request. Please contact our sales depratment for additional information.*

Key Features

- Processor controlled beam-forming technology
- Superior range
- Integrated down look antenna
- Lightweight & aerodynamic
- Low profile design
- Programmable RX tracking
- Compatible with external GPS antenna

Typical Applications

- Law Enforcement
- Event Coverage
- Newsgathering
- Sports Coverage
- Ship-to-Shore
- ISR (Military and LE)
- First Responders

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V-Link Datasheet

Technical Specifications	
Beamwidth per Beam Panel	• 45° Azimuth • 35° Elevation
Polarization	Vertical or RHCP
Return Loss	14db
Power Input	20Watt
System	
Voltage Input	8-30VDC (Aircraft Power)
Power Consumption	6 Watts
Power and Control Connector	• 19 pin circular • KPT07A14-19P
GPS	With external antenna
Connectors	
RF Input	N– Female
GPS Antenna	TNC Female
Power and Control Connector	• 19 pin circular • KPT07A14-19P
Control	
Direct	• Pro-Term Handheld • Terminal emulator (PuTTY)
Controller	• DZUS RU • 9731x Cockpit Controllers
Programmable	• Waypoints • Closest RX • Selected target RX
3rd Party	• Churchill (SHOTOVER SYstems) • Aero Computers (Recon Aerospace) • Trakka
Temperature	-10 to +50°C
Environmental	
Full specification	10° to +50°C Ambient
Storage	40° to +80°C
Humidity	0 to 85% non-condensing
Physical Characteristics	
Size	Variant Dependent
Weight	Variant Dependent
Radome	Fiberglass
Mounting	• Meeker Mount Footprint • Kydex Radome • Optional - Custom

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