FlightStrata™ HD

OVERVIEW

New for 2006, FlightStrata HD is designed specifically for high-definition broadcast video and embedded audio for HDTV. The FlightStrata HD provides point-to-point, wireless HDTV-quality digital video streams for remote HDTV camera coverage of news, sporting events and live entertainment. The FlightStrata HD is engineered to deliver raw data rates for full uncompressed HDTV signal transmission during live or taped HDTV shoots in the field. The new FlightStrata HD offers true throughput of fiber-optics transmission without the time-consuming and difficult process of pulling permanent or temporary cabling.

With full-duplex throughput of 1.485Gbps, the FlightStrata HD is compatible with the HDTV Serial Digital Interface (HD-SDI) transmission industry standard (SMPTE-292M). This custom full compatibility of the FlightStrata HD allows the highest quality, real-time HDTV video feeds at recommended distances up to 750 meters between a remote HDTV camera and production studio facility or remote satellite truck.

The FlightStrata HD also incorporates multi-beam transmission, auto tracking, Optical Beam Shaping (OBS) and Automatic Power Control (APC)—features that ensure the most reliable connections. The combination of product features makes the FlightStrata HD the optimal license-free wireless connectivity choice for remote transmission of HDTV signals for HDTV broadcast programming.

FEATURES AND BENEFITS

- HDTV Broadcast Quality – designed specifically to meet HDTV standards of 1.485Gbps, providing uncompressed video image transmission and 100% real-time frame delivery.
- Optical Wireless Transmission – combines the ease and portability of point-to-point wireless with the performance and full-duplex transmission quality of fiber-optic cable.
- License-Free – can be operated worldwide with no regulatory approval as is required for certain radio frequency (RF) or digital microwave solutions.
- Ultra High-Speed Connectivity – Optical Wireless products provide full-duplex speeds and do not require Codec compression technology.
- Secure Transmission – Optical Wireless solutions operate with invisible beams of light, making them among the safest and inherently secure wireless communications methods.
- Interference Free – all products are immune to radio frequency and saturation issues.
- Class 1M rated – all products are rated Class 1M, the international standard for eye-safety.

Data Sheet

OUTDOOR UNIT

Description	Four-Beam Optics System w/ Auto Tracking/Auto Power Control
Receiver/Transmitter(s)	Four receivers, four transmitters
Dimensions (W x H x L)	321x297.5x620 mm (12.6x11.7x24.4 in)
Unit Weight	11.1kg (24.4 lbs)
Operating Voltage	90 to 240 V (50/60 Hz) or +/- 48 V DC
Operating Temperature	-25C to 60C (-13 F to 140F)*
Humidity Range	Up to 95% non-condensing
Power Consumption Max	40W
Immune to EMI & RF Interference	Yes
Built-In Alignment Telescope	Yes
Built-In Defroster	Yes

FREE SPACE

Bit Rate	1.485Gbps, full-duplex
Operational Ranges	750m typical (2,000m max)[2]
Free-Space Optical Transmitter	VCSEL
Free-Space Wavelength	850nm
Optical Receiver	Si APD
Receive Power Indicator	10-level bar graph
Status Indicator (LED)	Power, TX, Data, LOS, Overload, Data In, Data Out

INTERFACE

Standard	HDTV SDI Standard (SMPTE-292M)
System Interface	SC Connector
Fiber Mode	Singlemode

CLASSIFICATION

IEC/EN 60825-1/A2	Class 1M

* = Sunshield available for high temperature environments

[2]Operational Range depends on environmental conditions. Maximum distances listed are in ideal, clear weather conditions.

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