

FLY CAM SYSTEM

Complete Stadium High Wire POV Fiber Transport



A 2RU Fiber Solution That Can Be Configured For Your Exact Requirement

Joseph Electronics (JE), the premier one-stop shop for the broadcast industry, and Joseph Fiber Solutions (JFS), provider of fiber termination and custom fiber solutions, have created an integrated, single-fiber data-transmission solution for high-speed, aerial-camera maker FlyCam USA. With JFS's custom solution, FlyCam USA can send data and HD video back and forth on a single fiber, leaving the system's second fiber available as a backup.

JFS designed a system that can send bidirectional data and HD video over just one fiber, ensuring there is always an unused fiber on standby. The three-box solution includes a small, lightweight I/O interface box flying with the camera, a box on the ground, and a box at the truck compound for the operator. Signals from the FlyCam to the ground include an HD send, genlock return, 2 bi-directional RS data paths, and an Ethernet port. Signals from the ground to the truck compound, add intercom and return video with a switch to allow full operation from the ground for troubleshooting purposes independent of the truck compound, a key feature when the TV compound can be a significant distance away. Also, a 1310nm "bypass" channel allows additional signals to be added in the future, without a significant cost impact.

FEATURES & APPLICATIONS

FEATURES

- Modular 3 point design
- Camera POV unit, central robotics, truck I/O interface.
- Supports HD Video:
 - 3GHD, HD-SDI, SDI
 - RS422 Data
 - RS232 Data
 - Genlock
 - Ethernet
 - other options available
- Simple, Intuitive Operation
- 1 or 2 Singlemod Fiber Versions available
- Optical Redundancy (optional)
- Optional by directional bypass channel available between units

APPLICATIONS

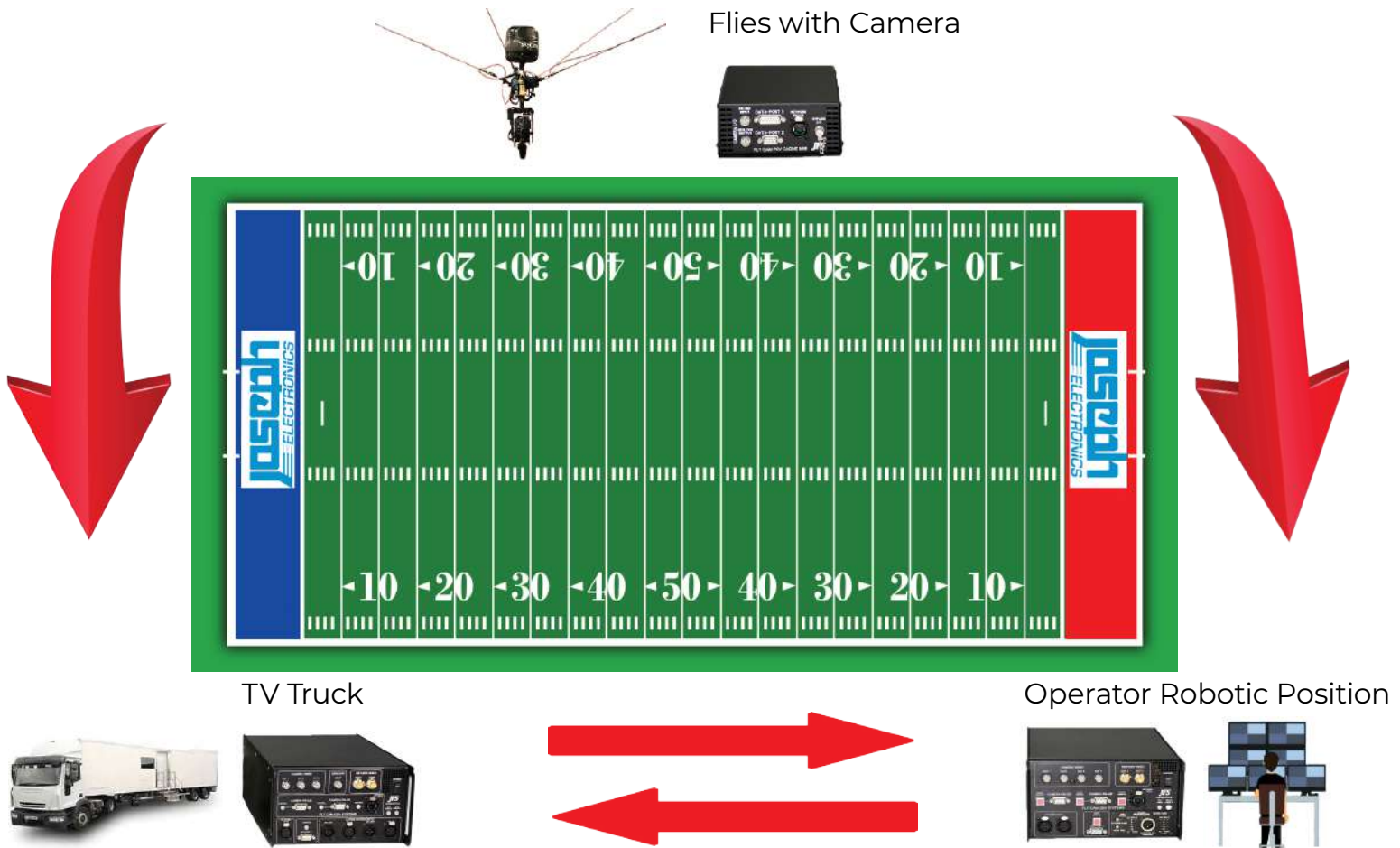
- Truck Interconnects
- Studio to MCR Links
- Announce Booths
- Cross Campus Links
- Distance Learning
- D-ENG/SNG



JOSEPH
ELECTRONICS

JosephElectronics.com | 1-847-588-3800

“Pat Hally and the crew at FlyCam USA and This Side Up Productions are pioneers in aerial-camera technology and production, and we’re honored to be associated with this forward-thinking group,” said Yohay Hahamy, president and CEO of Joseph Electronics. “The system we built for FlyCAM is a great example of Joseph’s ability to work closely with customers and customize innovative solutions for the most demanding applications.”



SPECIFICATIONS

MECHANICAL, ENVIRONMENTAL

Dimensions (LxWxH)	3.5x8 5x9
Weight	7 lbs.
Temperature Range	-30° to +70°C
Humidity Range	up to 90% (non-condensing)
Power Input	2x 4-pin XLR
Power Rating, nominal	50w max@12VDC
Power Requirement	<10w @12VDC
Signal detect	LED on for loss of signal

Audio/Data
Determined by installed module

VIDEO

Standards	SMPTE 424M, 292M, 259M & 297M,
*Auto rate selection for 3G, HD & SD-SDI	
Connector	1 75Ω BNC / channel
Return Loss	>15 db @ 1.485 Gb/s
Signal Level	800 nV +/- 10%
DC Offset	0 +/- 0.5V
Jitter	<0.15 UI line equalized

OPTICAL

Connector	ST Standard. Others available
Fiber	Singlemode
Wavelength	1270 - 1610nm
Optical Power	-2 dBm @ 1310/1550 0 dBm @ CWDM
Sensitivity	>-16 dBm
Max Input Power	> -1 dBm
Data rate	50Mb/s to 3Gb/s

Conforms with 89/366/EEC, EN 61000-6-1, EN 61000-6-2, Class 1 laser product, and RoHS 2002/95EC

CHICAGO
Joseph Electronics
6633 W. Howard Street
Niles, IL 60714
847-588-3800

JOSEPH
ELECTRONICS

JosephElectronics.com | Sales@josephelectronics.com

CALIFORNIA
Joseph Electronics-West
3045 Teagarden Street
San Leandro, CA 94577
510-352-7500