

# PoSDI Camera Interface System



## Features

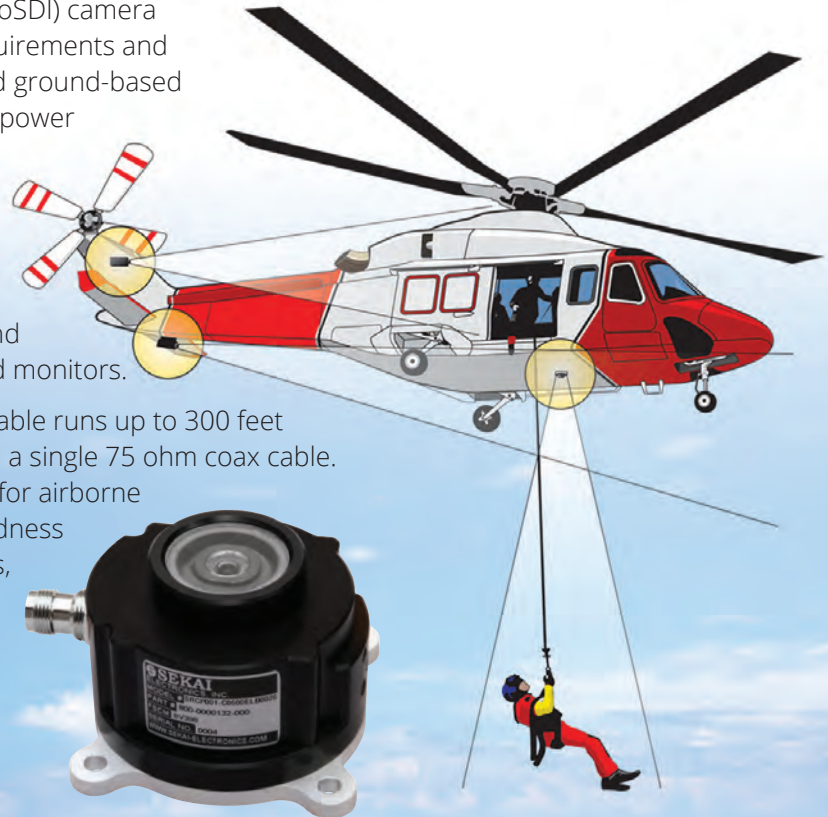
- Single coax cable HD camera connection
- HD-SDI and 3G-SDI compatible video formats
- Centralized camera power and remote control
- Reduced weight and system complexity
- Extend camera connections up to 100 meters / 300 feet
- Multi camera support
- All PoSDI video products are designed for Ultra-Low Latency

You can have it all –  
Power, Control, and  
Full-Motion Video over  
a single coax cable

## Made for Your Environment

Sekai's Power over Serial Digital Interface (PoSDI) camera interface system greatly reduces wiring requirements and increases the reliability of your airborne and ground-based video systems. A single coax cable supplies power and control to remotely located cameras, while simultaneously transmitting digital video from the camera to a remote DVR and/or monitor. PoSDI functionality is being designed into all new Sekai video products, including a wide variety of high-definition and standard-definition cameras, recorders, and monitors.

Sekai's PoSDI solution can extend camera cable runs up to 300 feet (100 meters), while reducing wiring down to a single 75 ohm coax cable. The video system is designed and qualified for airborne applications (DO-160G). However, its ruggedness also makes it well suited for ground vehicles, ships, or any other harsh environment.



CAPTURE – RECORD – DISPLAY



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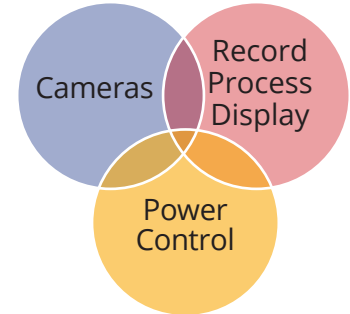
# Single- or Multi-Channel Options

Sekai's PoSDI solution comes in single- and multi-channel variants. Single-channel systems supply power and control for one camera, while multi-channel variants support two or more cameras at the same time. Both cameras and VDM's are compliant with DO-160G airborne electrical and environmental standards.

Each PoSDI system is made up of two components, PoSDI camera and a Video Distribution Module (VDM). The VDM amplifies and isolates video from the camera prior to output for the user so monitors, recorders, and other devices can be a significant distance from the VDM. The VDM also contains a cable equalizer and re-clocker to compensate for losses and restore the SDI signal, which is then sent to two separately buffered outputs per camera. The system can support 1080P @60 fps with 2.97 Gbps (3G-SDI) defined in SMPTE 424M.

The VDM receives +28 VDC system power from an external source and contains a serial interface for transmitting commands and settings to the camera. Both power and serial commands are sent via a standard coax cable to the camera.

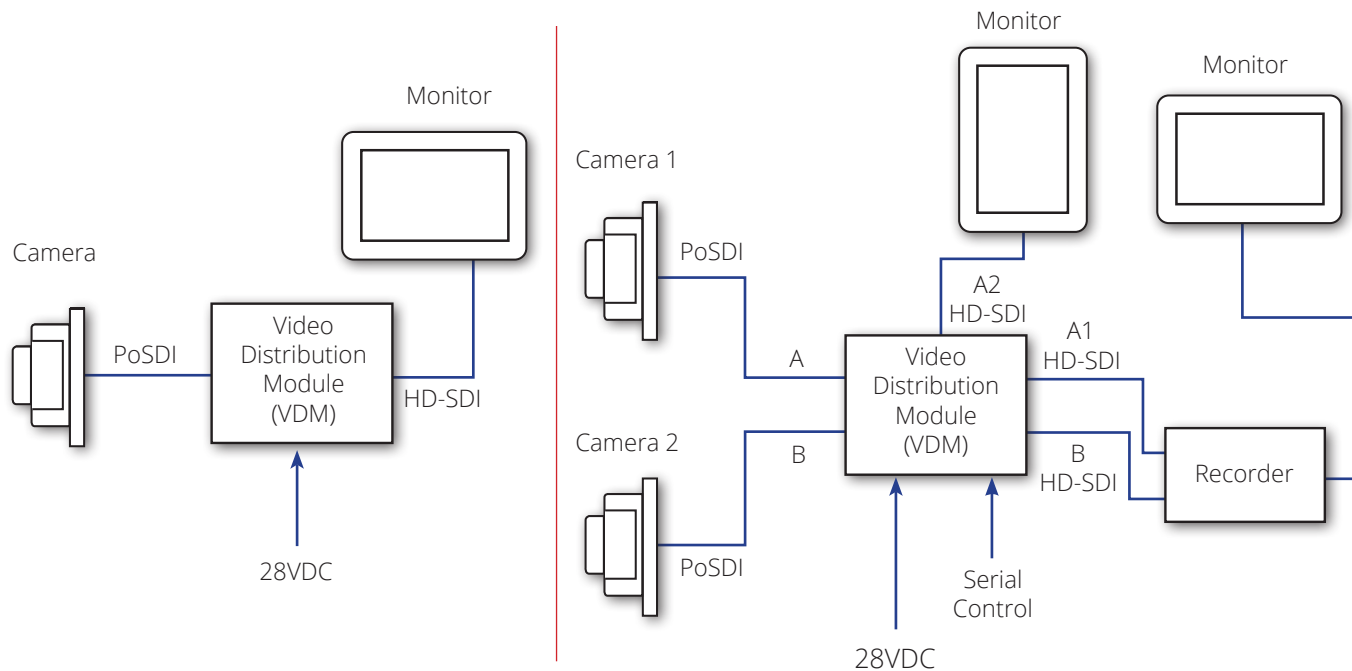
Watch Sekai's PoSDI family grow – More camera models, and power options coming soon!



## PoSDI Camera Interface System

Comes in single-channel and multi-channel versions (examples shown below)

### Configuration Examples



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