



HL2V Compatibility Worksheet

Cypress HOTLink transceivers can be used to implement a two-wire, low latency, low overhead video protocol that is excellent for military and aerospace applications, such as IR cameras. However, no industry standard exists for a HOTLink video protocol, and many different protocols have been implemented. GRT's HL2V frame grabber and camera emulator cards are extremely flexible in being able to handle different protocol implementations. In order for GRT to determine if a video protocol is compatible with the HL2V cards, or for configuring a system, the information below is needed. To understand the terminology on this worksheet and for a recommended protocol, please read, *Best Practices for Implementing a HOTLink Video Protocol for IR and Optical Applications*.

Name: _____
Company: _____
Email: _____
Phone: _____

Required Specifications

1. **HOTLink data rate (Mbps):** _____
2. **Frame Size:** _____ pixels x _____ pixels
3. **Number of Bytes/pixel** _____
4. **Number of bits/pixel:** _____
5. **Frequency:** _____ frames/sec
6. **Header:** Yes No **Header Structure:** _____
7. **Start of Frame (SOF) character (choose):** K28.0, K28.1, K28.2, K28.3, K28.4, K28.5, K28.6, K28.7, K23.7, K27.7, K29.7, K30.7, or none.
8. **Number of End of Line Idles (K28.5):** (minimum of 6) _____
9. **Number of Interframe Idles (K28.5):** (minimum of 6) _____

Optional Specifications

Start of Line character (choose): K28.0, K28.1, K28.2, K28.3, K28.4, K28.5, K28.6, K28.7, K23.7, K27.7, K29.7, K30.7, or none.

End of Line (EOF) Character: (choose) K28.0, K28.1, K28.2, K28.3, K28.4, K28.5, K28.6, K28.7, K23.7, K27.7, K29.7, K30.7, or none.

End of Frame (EOF) Character: (choose): K28.0, K28.1, K28.2, K28.3, K28.4, K28.5, K28.6, K28.7, K23.7, K27.7, K29.7, K30.7, or none.

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