

ILDA Technical Committee Meeting Notes

23 September 2004 – ESD-LDI

Las Vegas, Nevada U.S.A.

Committee Attendees: Matt Polak (Moderator)
 Michael Sollinger
 Casey Stack
 Steve Heminover
 Lee Strom (Minutes – non committee member)
 Peter Jakubek (L.A.S.)
 Peter Mayer (C.L.P)

Agenda Items: Grating Standards – Peter Mayer
 ISP (ILDA Standard Projector) – Changes
 ILDA file format changes
 Voting in new Committee Members

Gratings Standard for interchange –

- Option standard allows for additional expansion, syntax for this are provided.
- Motion by Steve to adopt standard.
- Motion approved (second unknown). Standard will be adopted for a period of one year to be revisited at the next ILDA technical meeting.

ILDA Standard Projector –

- Changes were made to the Standard.
 - Wording clarification ISP-DB25 regarding differential signaling
 - Clarified DB25 Tables and explanations with additional cross-referencing
 - Clarified Color Wavelength and Use Table

Peter: “Transmission Stage?”

Matt: “10K”

- Shutter clarifications. Pin 25 is referenced to pin 13 – common mode drift limiter.

Casey: “Impedance of Pin 13. Don’t use to drive shutter directly.”

- Added Casey’s comment to document. [This is a high impedance control signal not intended to drive a shutter device.]
- User Defined Signals. User 3 and 4 grouped for clarity and annotations added for readability.
- Color Change Usage. Changed wording to explain bright output vs. color gamut in wiring of color lines.
- Multiple wavelengths. Setup table for various color line inputs.
- Added comment. [All signal receiving devices ...]
- ISP tape standard. Recording to hard drive recorder (ADAT) vs. tape standard which is phasing out.
- Modified ADAT track numbering for clarity. Channel 6 option for user defined.

Steve: “Track numbering typo.”

Matt: Modified typo.

- Defined Symmetrical and Non-Symmetrical signal
- Unipolar analog signal. Clarified with example.

Matt: Demonstrated Alex’s diagrams of Differential Signals and Drivers.

Steve: “Modify chart for legibility.”

Mike: Explains his version of the differential driver schematic.

Aside: Mike discusses driver with Peter, Steve is concerned about stability.

- Mike will add equation ($V_{\text{ilda}} + = ?$)

Matt: Suggested to add a resistor tolerance of +/- 1%.

Mike: Wishes to omit internal ground to eliminate ground loops.

Mike: Suggests shutter ground to signal ground.

ISSUE: When shutter is in use a reference signal is needed. However tying pin 13 and 25 can cause ground loops.

Casey: (solution) “Require an opto-isolator on the receiver.

OPEN DISCUSSION ON SCHEMATIC CHANGES

Casey: Motions for Opto-Isolator addition.

Matt: Seconds.

VOTE: Motion passed to visit this in 2005.

Steve: Wishes to Amend Motion for addition of diagrams.

Steve: Motions to make this a preliminary standard for a period of one year.

Mike / Casey: Second

VOTE: Approved.

Steve: Proposed signal timing requirement for diode white light projectors.

BRIEF OPEN DISCUSSION

Matt: Motion to fill empty tech committee positions. Nominate Alex with LFI and Peter.

Casey: Nominate James Stuart

VOTE: Added James and Alex

Mike: Motion for Matt to be Chair

Casey: Second

VOTE: Matt accepted after quorum

- ILDA Standard for 24 bit file format

Proposed change to 24 bit

- Augment end of file to contain new table.
- Consistency and backward compatibility

Peter: Must implement new format not compatibility due to same issues that may arise with backward compatibility issue.

Casey: Motion for file format standard.

Matt: Explains file format changes including byte order and reader compatibility. Explains header descriptions and true color header.

EXTENDED TECHNICAL DISCUSSION

(changes are made to the document)

Mike: Move to adopt new format.

Casey: 2nd

VOTE: Accepted

Matt: Proposes Standardized API for ILDA standard.

Casey: Define communication data set?

Casey: Moves for chairman to take action item on API proposal for feasibility and framework.

DISCUSSION ON FEASIBILITY

Mike: Not willing to readily adopt.

Casey: Motion only to explore API solution, not implement.

Casey: Moves to adjourn.

Matt: 2nds

-END OF TECHNICAL MEETING_