Answers for “Probs comment.pdf” Nov.21.2007

1. Are there any errors in the transcription of how to use Panasonic Coaxitron as shown in Appendix A, page A-1?

1. Data format:
1.1. A ¥0" is a positive pulse that is high for 1:25¹s and low for 3¹s for a total of 4:25¹s. -Yes
1.2. A ¥1" is a positive pulse that is high for 3¹s and low for 1:25¹s for a total of 4:25¹s. -Yes
1.3. The pulse height is 0:5 § 0:05V. -Yes
1.4. There are four 8-bit bytes in non-alarm data. -Yes
One 8-bit byte in alarm data. (There is no additional information about alarm data.) -Alarm data is consist of only one bit.
1.5. The ¯rst pulse in each byte starts at 11:75¹s after the leading edge of HSync. -Yes
1.6. Panasonic Gen Lock (VSync) is line 3, for odd ¯elds and line 266 for even ¯elds. -Yes
1.7. Panasonic Gen Lock has a duration of 3 + 2:5 ¡ 0:5¹s, and a height of 2:35 § 0:3V. -Yes
2. In odd ¯elds:
2.1. Head end data is on lines 11 ¡! 14. -Yes
2.2. Data from the camera is on lines 15 ¡! 18. -Yes
2.3. Alarm data from the camera is on line 19 for odd ¯elds. (Not veri¯ed) -Yes
3. In even ¯elds:
3.1. Head end data is on lines 273 ¡! 276. -Yes
3.2. Data from the camera is on lines 277 ¡! 280. -Yes
3.3. Alarm data from the camera is on line 281 for even ¯elds. (Not veri¯ed) -Yes

5. There is no indication of any timing requirements. I.e. for D Protocol, we specify that a command will be resent if there is no response within 250 ms. There is no equivalent for Panasonic. However there is a suggestion that all commands are synchronized with the vertical, or it might be horizontal, blanking timing. In one place there is a reference to an unrealistic 10 min, timeout.
Answer : after sending command, controller expects answer from camera in the next field. (for example, When controller data is sent on odd field (line 11 – 14), camera response should be on even field (line 277 – 280) right after the field which has head-end data.)
See Fig.1-1 and 1-2.

If there is no response in the next field, controller resend the command again in following field without gap. Controller resend up to 3 times (Total 3 times including first one).

6. The method documented for working with Panasonic Coaxitron is not complete.

6.1. The format of ¥alarm" data is not speci¯ed.

Answer: Alarm signal (1bit) appears in line 19 and 281 while camera is in alarm state.
See Fig.2 as horizontal timing chart.

6.2. The ¯eld(s) that a command/answer is send in is not speci¯ed.

Answer: Command can be appear in either field. Answer has to be placed in the next field from command.

6.3. Is the same data sent in both ¯elds of a frame?

Answer: Same data is not sent in both fields in a frame.

6.4. It is not clear if a command, motion or otherwise is repeated, as happens in Pelco Coaxitron.

Answer: We are unclear what this question means. Above answers may solve.

6.5. How the following commands/answers are sent is not speci¯ed:

6.5.1. ACK: Acknowledge. Are they used in Panasonic Coaxitron?

Answer: No. Panasonic up-to coax does not use ACK.

6.5.2. ALM: Alarm Information Data.

Answer: there is only one bit as alarm information on Panasonic up-to coax.

6.5.3. ER001: An error code. Answer: Not used on Panasonic up-to coax.

6.5.4. ER002: An error code. Answer: Not used on Panasonic up-to coax.

6.5.5. ER301: An error code. Answer: Not used on Panasonic up-to coax.

6.5.6. ER305: An error code. Answer: Not used on Panasonic up-to coax.

6.5.7. ER306: An error code. Answer: Not used on Panasonic up-to coax.

6.5.8. ER601: An error code. Answer: Not used on Panasonic up-to coax.

6.5.9. NAK: Negative acknowledge. Are they possible in Panasonic Coaxitron? Answer: Not used on Panasonic up-to coax.

6.5.10. QID: Get the Camera's ID code. Answer: Not used on Panasonic up-to coax.

6.5.11. QLD: Get Alarm Data. Answer: Not used on Panasonic up-to coax.

6.5.12. QLM: Get Alarm Log mode. Answer: Not used on Panasonic up-to coax.

6.5.13. QRS: Unknown use but referred to in the documentation. Answer: Not used on Panasonic up-to coax.

6.5.14. RBC: Bu®er Command. Answer: Not used on Panasonic up-to coax.

6.5.15. RLM: Set Receiver Alarm Mode. Answer: Not used on Panasonic up-to coax.

6.5.16. RON: Suppress or enable reverse communications from the camera. Answer: Not used on Panasonic up-to coax.

6.5.17. SRQ: Request Command, otherwise is undocumented. Answer: We are checking the information about SRQ. We will answer until end of Nov.

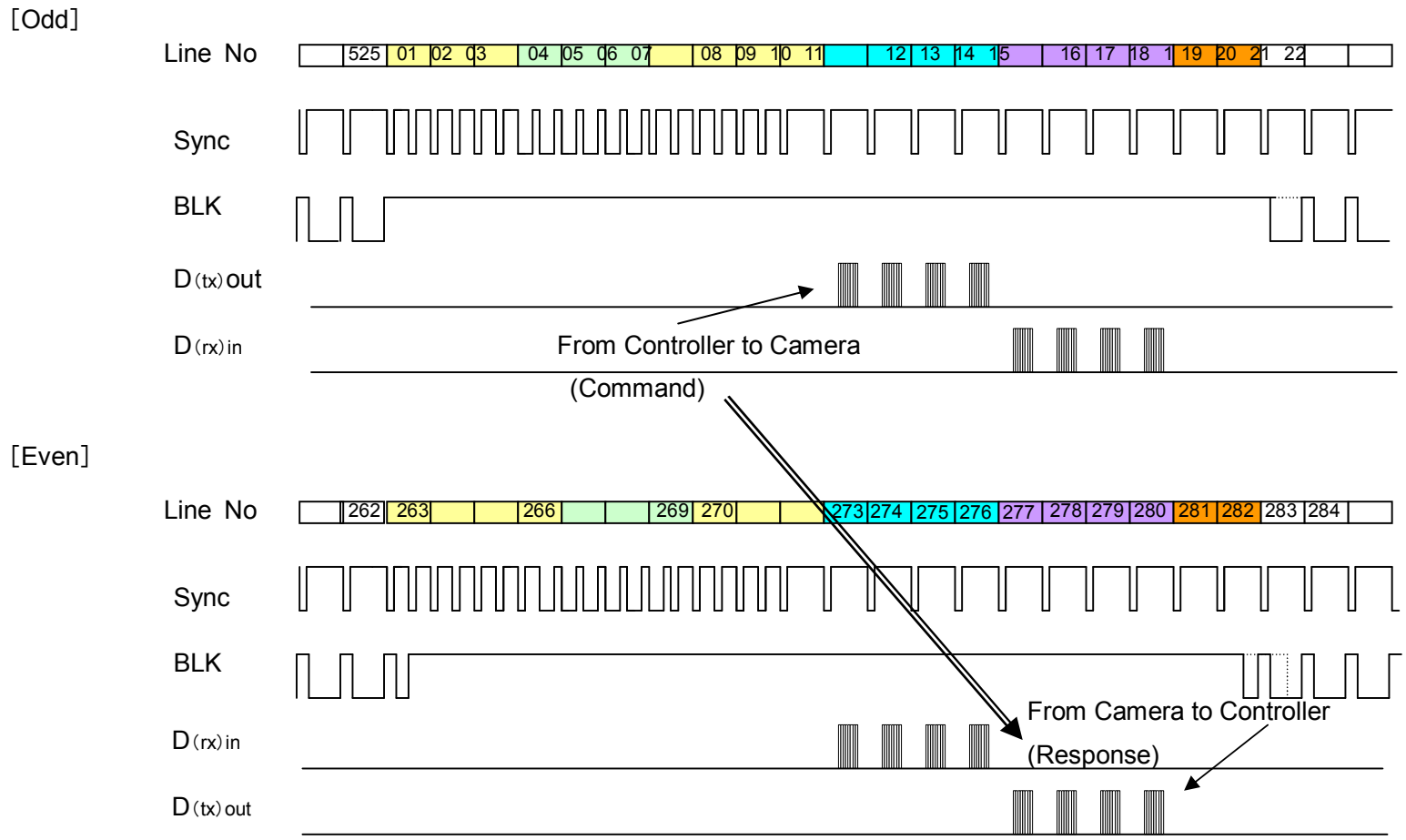

Fig.1-1 Command – response timing chart

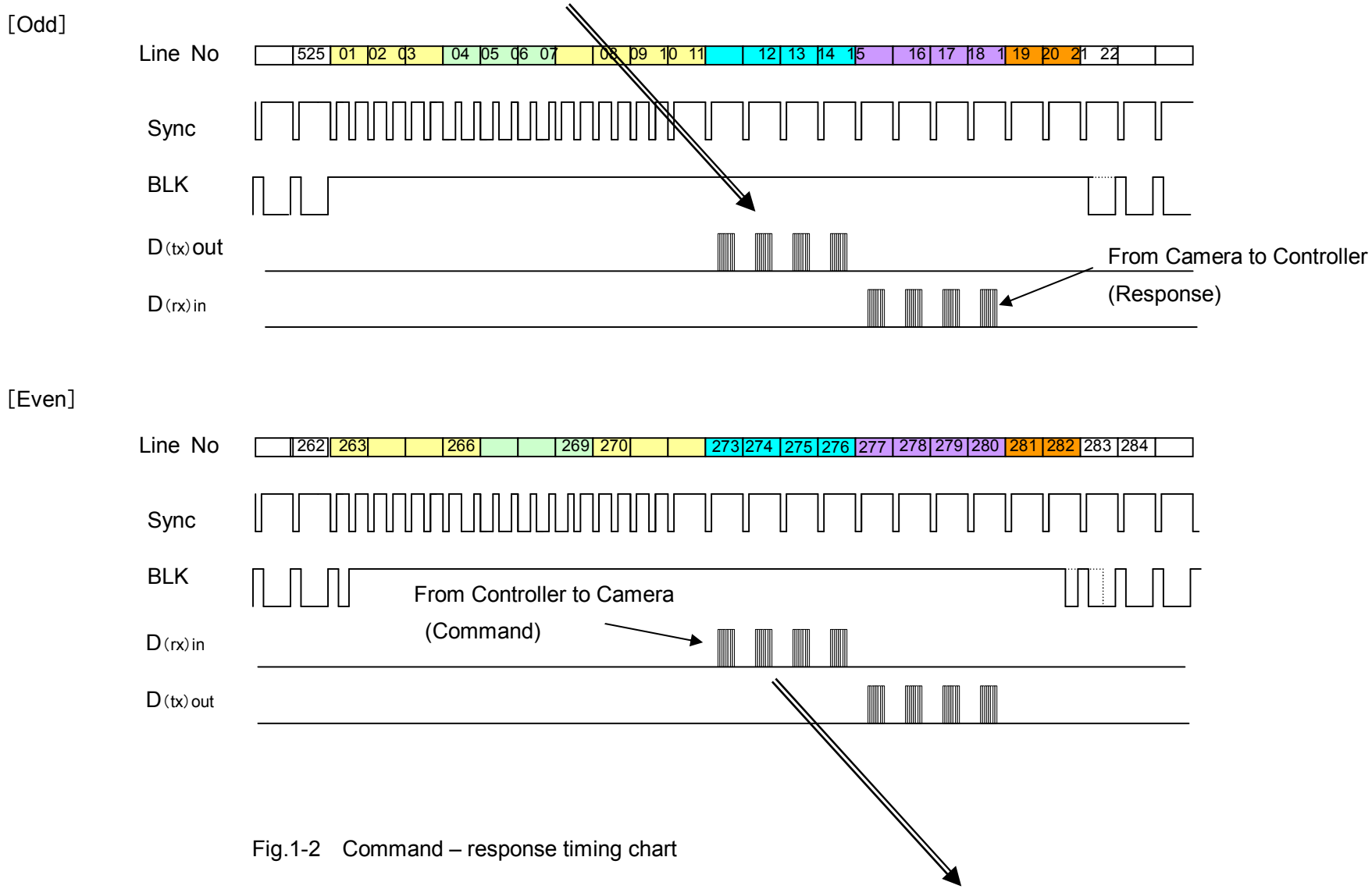

Fig.1-2 Command – response timing chart

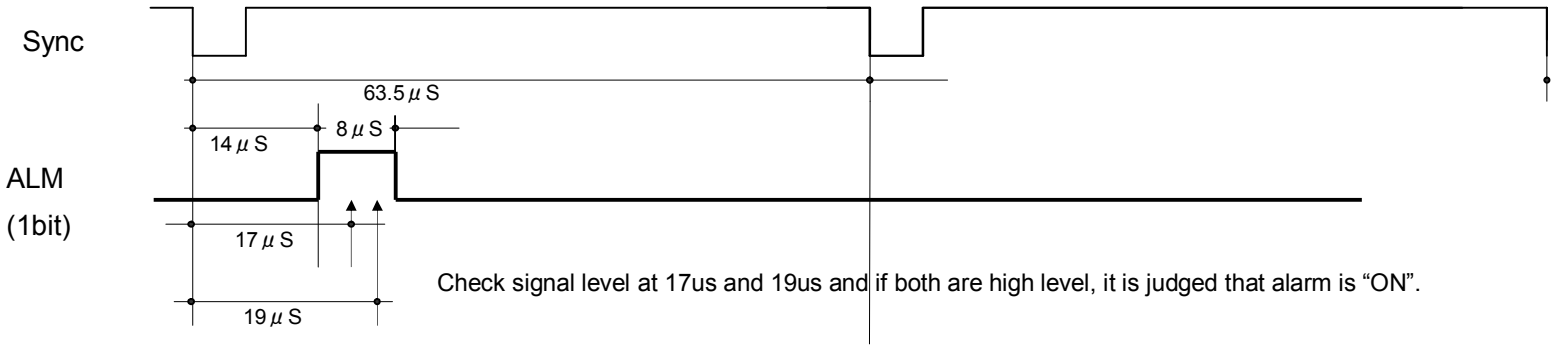

Fig. 2 : Alarm bit horizontal timing chart