

Application Note

Driving TTL Level for CamRecord CRx2 High-Speed Cameras

Version: AN-TTL Level-01

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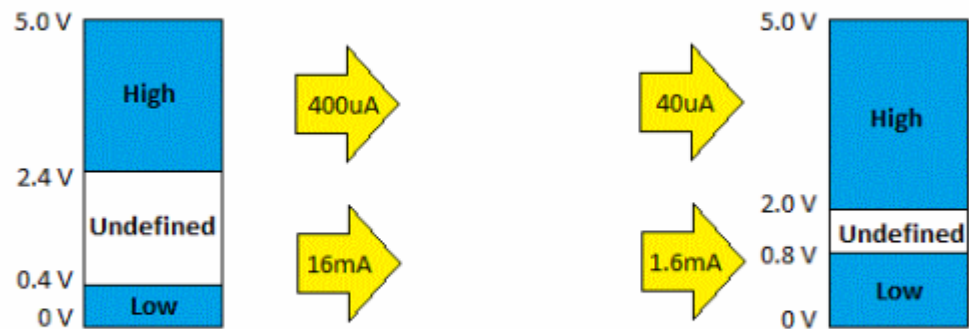
Key words: High-Speed Camera, Slow Motion Camera, TTL

Introduction

What is the definition of a TTL (Transistor-Transistor Logic) compatible signal?

A TTL signal must meet an output voltage and current specification and an input voltage and current specification.

Voltage and Current Drive Specification



Note: The ratio between I_{OL} and I_{IL} as well as I_{OH} and I_{IH} is 10 due to the standard fanout of TTL logic.

CRx2 high speed camera TTL inputs comply to:

< 0,8 Volt at ~ 6,5 mA (~4 TTL loads)

> 2,0 Volt at < 40 μ A

To meet TTL signal specification, the driver of a TTL signal of CRx2 cameras must comply to:

< 0,4 Volt at -16 mA driving current

< 2,4 Volt at 400 μ A driving current