BlinkPulse

up duration | *on duration* | *down duration*

100%

illumination level

ramp up | *on time* | *ramp down*

0%

t_1 t_2 t_3 t_4

time

FlashPulse

interpulse interval

up duration | *on duration* | *down duration*

100%

illumination level

ramp up | *on time* | *ramp down*

0%

t_1 t_2 t_3 t_4 t_5

time

PatternTimeline

Blink 1 | Blink 2 | Blink 3 | Blink 4

Delay 1 | Delay 2 | Delay 3 | Delay 4

time →

one *pattern*

PatternTimeline2

Flash 1 | Flash 4 | Flash 7 | Flash 1

1 second

time →

flash pattern interval

BlockDiagram

Firefly Simulator

Host Computer

USB

Processor

LEDs

Pushbuttons

Test Specimen