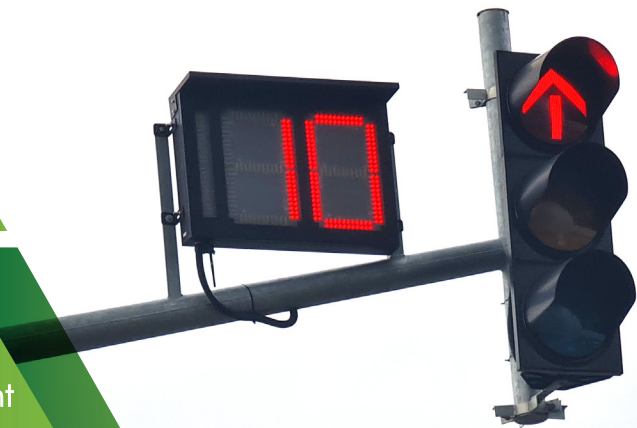


DIGITAL COUNTDOWN

As the pioneer of digital countdown systems in Malaysia, we initially introduced dual-colour LED countdown timers. Since our first installation in 1998, the countdown timer has proven to increase vehicle movement efficiency and reduce inter-vehicle headway. In addition, countdown reduces the anxiety and stress of road users which results in a lower probability of road accidents.

In 2020, PPK introduced full colour LED countdown timer which makes counting down the green and red times more interactive. While road users wait for their turn for the right of way, they can be served with commercial advertisements, reminders and road safety information. Inspired by the existing digital countdown timer, we have deployed our first VVC (VMS VA Countdown) with P6 dot spacing for better visibility in 0.768 m (W) x 0.576 m (H) sizing.



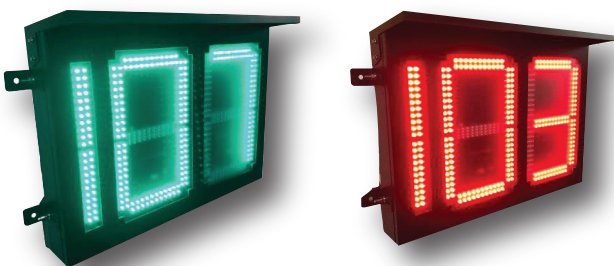
The LED display size and dot spacing come in various options and are customisable, so please do contact us for more details.

Key Features

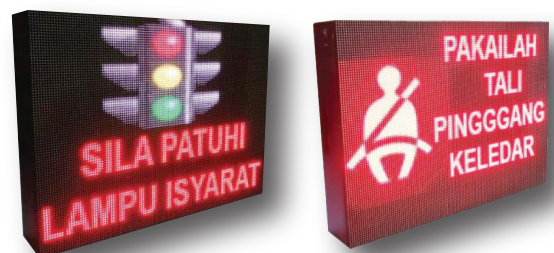
- ✔ Compatible with Greenwave linking feature.
- ✔ Large display window and long-range viewing distance (up to 200 meters).
- ✔ Displays timing according to vehicle actuated data (vehicle volume).
- ✔ Able to accommodate skip and on-demand phasing under full VA conditions.
- ✔ Lamp and countdown conflict interlock is included.

Benefits

- ✔ Reduced lag and headway.
- ✔ Reduced road user anxiety and stress.
- ✔ Improves vehicle throughput.
- ✔ Added safety as it reduces the occurrence of red light jumping.
- ✔ Able to receive timing data provided by MATC controller using intelligent algorithms.
- ✔ Displays timing according to vehicle actuated data (vehicle volume)



Model 1 : Dual Colour LED Countdown timer



Model 2 : Full Colour LED Countdown timer

QUALITY POLICY

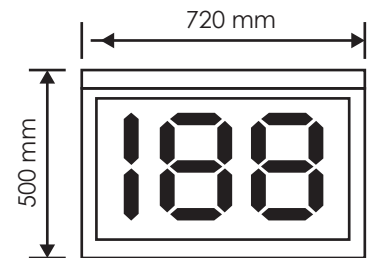
It is our commitment to provide the service with the highest standard of safety, quality and reliability that meet the specified requirements and expectations.

Configuration Method

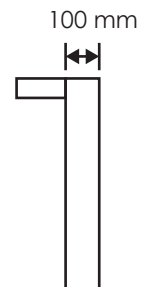
NO.	CONFIGURATION METHOD	DESCRIPTION
1.	Full Vehicle Actuated *Patented Dash Countdown *Patent No. : MY-188026-A	Display the dash sign (green/ red) and start counting down during the last 8-15 seconds (or as pre-determined). Skip phase feature enabled.
2.	Full Vehicle Actuated with Skip Phase Jump Countdown	Display green/ red phase timing in full. Skip phase feature enabled. Jump down counter enabled and road users will experience immediate reduction of waiting time when other phase is skipped or the green time cut short due to no waiting vehicles or less queue of vehicles.
3.	Semi Vehicle Actuated Countdown	Display allocated green/ red phase timing which changes with vehicle volume.
4.	Non-Vehicle Actuated Countdown	Display pre-set green/ red phase timing.

Dual Colour LED Countdown Timer

CABINET SIZE	720mm x 100mm x 500mm
LAMP CONFLICT PROTECTION	Hardware and software-based interlock
MICROPROCESSOR	8-bit microcontroller
POWER SUPPLY	230V AC
TOTAL HARMONIC DISTORTION	<20%
WIRED COUNTDOWN - COMMUNICATION MODE	Uses RS485 to communicate with MATC Controller (up to 1.2km)
WIRELESS COUNTDOWN - COMMUNICATION MODE	Uses 920 MHz band to communicate with MATC Controller (up to 100m distance)
LUMINOUS INTENSITY	150cd/m ² @ 10cm distance from the surface
DOMINANT WAVELENGTH	630nm for Red LED 525nm for Green LED
INTERNAL POWER SUPPLY	5V DC (7A) for CDC4004 card and LED.



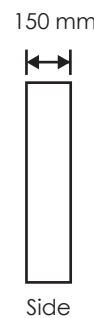
Front



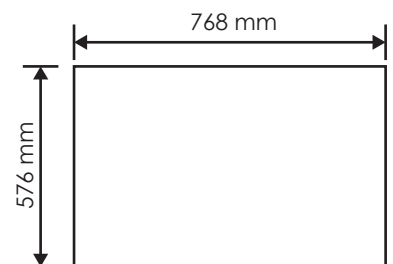
Side

Full Colour LED Countdown Timer Specifications (P6)

CABINET MATERIAL	Aluminium
PHYSICAL RESOLUTION	128 x 96 pixels
MAINTENANCE TYPE	Rear
CABINET WEIGHT	46 kg/ m ²
PIXEL DENSITY	27,777 pixels/ m ²
BRIGHTNESS	7500 cd/ m ²
REFRESH RATE	1920 Hz
MAX POWER CONSUMPTION	850 W/ m ²
AVG. POWER CONSUMPTION	285 W/ m ²
BEST VIEWING ANGLE	160° (H)/ 140° (V)
INGRESS PROTECTION	IP65 front/ IP55 rear
INPUT VOLTAGE	220 V ± 10% ; 110 V ± 10%
MTBF	> 5, 000 hrs
WORKING TEMPERATURE	-40 °C to 60 °C




Side





Front

DISCLAIMER

All information provided herein is for information purposes only and does not constitute a legal contract between PPK Technology and any person or entity unless otherwise specified. PPK Technology reserves the unconditional right to discontinue or make changes to product and product specifications without prior notice to improve the product's reliability, function or design.

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