

Radar display with ANPR

A 16-inch radar display, ANPR camera and AGNS OS for speed and vehicle-plate records.

Updated 08 October 2026. Image shows an example configuration.



For projects that need driver feedback together with speed and number-plate data collection. ANPR means Automatic Number Plate Recognition.

Technical specifications

Parameter	Specification
Speed display	3 digits; readings up to 199 km/h
Digit height	Nominal 16 inches
Display area	640 × 640 mm
Display content	Speed, km/h and configurable messages
Display cabinet H × W × D	900 × 640 × 115 mm
Combined operating ambient	-20 to +65°C with reference camera
Reference ANPR camera	CP Plus CP-UNC-TT41L3-VMD-Q; 4 MP IR AI enforcement camera
Camera imaging	2688 × 1520 at up to 30 fps; 10-50 mm motorized varifocal lens
Camera WDR / illumination	140 dB WDR; IR illumination up to 30 m
Camera electrical	12-36 V DC or PoE; <=13 W; Ethernet; 2 × RS485 and 2 × RS232
Camera environmental rating	-40 to +65°C; IP67 / IK10 (camera component only)
Camera speed analytics	0-180 km/h for the reference camera
Software	AGNS OS subscription required; reporting, retention and integrations configured per project
Radar technology	24.125 GHz CW vehicle speed radar

Parameter	Specification
Sensor measurement range	1-240 km/h; display maximum varies by model
Manufacturer detection distance	>=180 m; depends on target, alignment and site conditions
Sensor accuracy	Error <±1 km/h at 0° target alignment
Beam (3 dB)	40° horizontal × 16° vertical
Sensor interfaces	RS485 / TTL serial, 9600 bps
AC input	200-240 V AC, 47-63 Hz
LED supply	5 V DC; reference SMPS NDA300HS5, 60 A / 300 W rated output
Radar supply	Separate regulated 9-24 V DC rail; module consumption <=1.2 W
LED system	RGB dot matrix; red, amber and green indications; HUB75 interface
Cabinet construction	1.2 mm mild steel with powder-coated finish
Enclosure options	IP65 or IP66, as specified for the supplied configuration
Net weight	Depends on the selected configuration
Mounting & warranty	Wall and pole mounting accessories included; one-year warranty

Configuration notes

The radar sensor measurement range is separate from the maximum speed the sign can display. Detection range and accuracy depend on site conditions and sensor alignment.

The 300 W SMPS rating is output capacity, not measured system consumption. Actual demand varies with brightness and display content.

External connectivity, mounting, solar power and installation services are specified for each project. BIS, CE, IP and ISO documentation requirements must be agreed for the supplied configuration.

Camera figures refer to the CP Plus reference model. Alternate cameras can be specified; the display maximum, radar measurement range and camera analytics range are distinct.

Company & support

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