

Intelligent Traffic Solutions

CANTILEVER DOPPLER RADAR SPEED WARNING SYSTEM

ORTANA

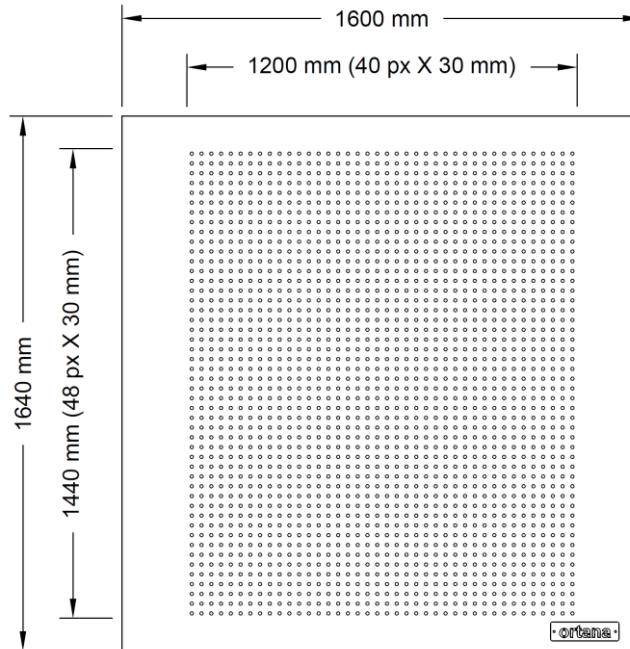
Cantilever Doppler Radar Speed Warning System Display's are EN12966 compliant and certificated. This model Visual Screen is presented in full matrix and mono color pixels. The optical norms are EN12966 Optical Classes L3, R2, C2, B2, T1/T2/T3, P3 and certificated.

- Monochrome, Full Matrix Amber LED Display
- Extended life time due to high optical performance with low LED current drive, low power consumption
- Very Low LED Drive Currents saving energy, reducing self heating and increasing LED life time
- K-Band Doppler Radar
- %1 Speed Measurement Error Rate
- DSP (Digital Signal Processing) Technology
- Automatic luminous intensity setting in 255 levels between 0% to 100%
- 1200 (w) x 1440 (h) mm Net Visual Area
- 1400 (w) x 1640 (h) mm Mechanical Area
- Approved 15 years life time including all equipment (low maintenance requirement)
- High Contrast Ratio (EN12966 L3/R2)
- Wide Viewing Angle EN128966 B2 (15deg)
- Secondary Front Optical Lenses with dust accumulation proof design
- High Mechanical Protection (IP66)
- Maintenance Free Aluminum Housing
- Wide Operating Temperature Range (EN12966 T1/T2/T3)



Optical Specifications

Display Type	: Monochrome Full Graphical LED Display
Lighting Elements	: Amber TH LED
Graphical Definition	: 40 (w) x 48 (h) pixels
Net Visual Area	: 1200 (w) x 1440 (h) mm
Pixel Pitch	: 30 mm



Electronics Specifications

Luminous Intensity Setting	: Pre-selected 10 levels automatic (out of possible 255 levels)
Lighting Elements	: 32 Bit Microcontroller
Graphical Definition	: Solar System or 230 VAC
Relative Humidity	: Betwn. 0% -100%
Temperature Range	: EN12966 Class T1/ T2/ T3 (-40°C to +60°C and extended +80°C)

Mechanical Specifications

Housing	: Aluminum Housing
Protection Class	: IP66 (EN12966 Class P3)
Front Face	: Optical Polycarbonate Lenses
Mechanical Resistance	: WL6, TDB1 (EN12899)
Mechanical Dimensions	: 1400 (w) x 1640 (h) mm

Standards

Ortana Cantilever Doppler Radar Speed Warning System's meet and exceed all international standards for optical, electrical, mechanical and resistance requirements. All Ortana Cantilever Doppler Radar Speed Warning System's are certified according to EN12966, Bast, ISO9001, ISO14001, ISO27001 Standards.

- AASHTO and AWS certification criteria
- IEC60950-1, HD.384.4, HD.638, NEN1010 safety standards
- IEC60529 for Housing Protection

Certificates

- Vibration Test in accordance with EN 60068-2-64
- Corrosion Test in accordance with EN ISO 9227
- Housing Protection in accordance with EN 60529
- Temperature Test
 - Cold EN60068-2-1
 - Dry Heat IEC 60068-2-2
 - Damp Heat Cycling EN 60068-2-30
 - Solar Radiation EN 60068-2-5
 - Change of Temperature IEC 60068-2-14
- Electrical Safety according to EC 60950-1, HD384, HD638
- EMC Testing
 - EN 55022 Emission
 - EN 61000-3-2 Harmonic current emissions
 - EN 61000-3-3 Limitation of voltage fluctuations
 - EN 50293 Product group immunity standard
 - EN 61000-4-2 Electrostatic discharge (ESD) immunity
 - EN61000-4-3 Radiated Electro-Magnetic field immunity
 - ENV 50204 Digital radio telephones immunity
 - EN 61000-4-4 Electrical fast transient (EFT) immunity
 - EN 61000-4-5 Surge transient immunity
 - EN 61000-4-6 Conducted Radio-Frequency disturbances immunity
 - EN 610000-4-11 Immunity to voltage dips and short interrupts

