



We help ideas meet the real world



# Retrosign GR3

## Specifications

### Optical specifications GR3 ASTM

Geometry: ASTM-E-1709  
 - Entrance angle: -4°  
 - Observation angle: 0.2°, 0.5°, 1.0°  
 Field measurement, Ø: 30 mm / 1.2 in. and 15 mm / 0.6 in.  
 Spectral responsivity:  
 Illuminant A and V(λ) efficiency according to ASTM  
 E1709 section 6.4.2. for selected filters.  
 Range (cd·lx<sup>-1</sup>·m<sup>-2</sup>): 0-2000

### Optical specifications GR3 CEN

Geometry: EN 12899-1  
 - Entrance angle: 5°  
 - Observation angle: 0.33°, 0.5°, 1.0°  
 Field measurement, Ø: 30 mm / 1.2 in. and 15 mm / 0.6 in.  
 Spectral responsivity:  
 Illuminant A and V(λ) efficiency according to ASTM  
 E1709 section 6.4.2. for selected filters.  
 Range (cd·lx<sup>-1</sup>·m<sup>-2</sup>): 0-2000

### Instrument dimensions

Length: 295 mm / 11.6 inch  
 Width: 83 mm / 3.3 inch  
 Height: 324 mm / 12.8 inch  
 Weight: 2.1 kg / 4.6 lbs

### Compliance

EMC: EN 61326 : 2007  
 Low voltage: Not applicable, battery driven  
 ROHS: Compliance to the requirement of and its exception.  
 Directive 2002/95/EC; 2002/96/EC Annex 1A

### Electrical characteristics

RFID tag reader: HF (13.56 MHz; ISO 15693 and ISO 1443A/B)  
 Power supply: Rechargeable and replaceable  
 Nickel Metal Hydride 9.6 V  
 External charger:  
 - main: 230 V / 50 Hz  
 - optional: 110 V / 60 Hz  
 - charge time: approx. 15 minutes

Data memory: > 250,000 measurements  
 Interface: USB

### Environmental specification

Temperature:  
 - Operating: 0°C to +50°C / 32°F to 122°F  
 - Storage: -15°C to +55°C / 5°F to 131°F  
 Humidity: non condensing

### Timing

Measurement time: 2 sec.

### SignTag™ RFID disc

SignTag™ Diameter: 30 mm / 1.2 in.  
 Thickness: 3.2 mm/0.13 in.  
 Diameter: 5 mm/ 0.2 in.

### Standard delivery

Carrying case  
 Calibration standard  
 Software Program  
 Battery charger  
 Ø15 aperture reducer  
 Small supporting plate  
 Lens cover  
 Communication cable  
 Quick guide  
 User manual on CD/DVD

### Options

Extension Pole Kit, 1.5-2.7 m / 4.9-8.9 feet  
 Extra battery  
 Ø10 aperture  
 Calibration certificate  
 Calibration service  
 Lens attachment for additional entrance angles of 30° and 40°  
 Bluetooth  
 RFID tag reader  
 Barcode reader  
 High precision GPS unit