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---, --- ---
Comment: ---

Operator: WELCOM
Order number: ---

Aperture: 4 mil, 0.102 mm
Wavelength: Laser 670 nm
Unit: Micrometer[μm]
Date: 6/19/2013 2:17:16 PM
Device: REA PC-Scan/LD 3 (V.1.0.11.10/12045r)
Serial Number: 0030.102.107-02263-1

Symbology: EAN-13
Code Content: 4901372301091

User comment:

Evaluation: ISO/IEC 15416, ISO/IEC 15420

Symbol: Pass 4.0/04/670

Selected grade: 2.5 (B)
SRP grade: 4.0 (A)

| | | | |
|------------------|-----|---------|---|
| Decode: | | | 4 |
| Symbol contrast: | 78% | min 55% | 4 |
| Edge Contrast: | 66% | min 15% | 4 |
| Modulation: | 85% | min 60% | 4 |
| Rmin/Rmax: | 5% | max 50% | 4 |
| Defects: | 11% | max 20% | 4 |
| Decodability: | 79% | min 50% | 4 |
| Bar deviation: | -3% | | |

Optional Parameters

| | | | |
|---------------------|-----------|-------------|---|
| PCS(SC): | 0.95 | min 0.75 | 4 |
| Bright value(Rmax): | 82% | min 25% | 4 |
| Dark value(Rmin): | 4% | max 41% | 4 |
| PCS(ECMin): | 0.91 | min 0.75 | 4 |
| Bright value(Rs): | 72% | min 25% | 4 |
| Dark value(Rb): | 6% | max 36% | 4 |
| Bar: | -54 23 | -105/+105 | 4 |
| Space: | -20 49 | -105/+105 | 4 |
| E-Value: | -30 16 | -50/+50 | 4 |
| P-Value: | -19 20 | -98/+98 | 4 |
| Mean: | -13 | -105/+105 | 4 |
| Z-Module: | 340 | 264/660 | 4 |
| Size: | 103% SC 2 | 80%/200% | |
| MF: | 1.030 | 0.800/2.000 | |
| CPI: | 10.600 | | |

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Detailed evaluation:

B = Bar, S = Space, E = Bar + Space
 C = Char, CS = Char set, SCV = Value
 P = P-value, V = Decodability[%]

| C | B S E P | B S E V1 | B S E V2 | E CS | SCV |
|-------|------------------|-------------------------|-------------------|----------|-----|
| Start | -7 -7 -16 | -8 -1 -9 98% | | | 30 |
| 9 | -20 2 -19 | -16 14 -18 95% | -6 | -1 A | 9 |
| 0 | -13 11 -16 | -23 10 -2 97% | -3 | -13 B | 10 |
| 1 | 9 -9 -2 | 19 -20 0 94% | -12 82% | -1 A | 1 |
| 3 | -43 28 -15 | -13 14 -15 86% | -30 | 1 A | 3 |
| 7 | 10 -16 -3 | 23 -20 -5 94% | -10 79% | 3 B | 17 |
| 2 | -36 34 -12 | -54 43 -1 90% | 8 88% | -11 B | 12 |

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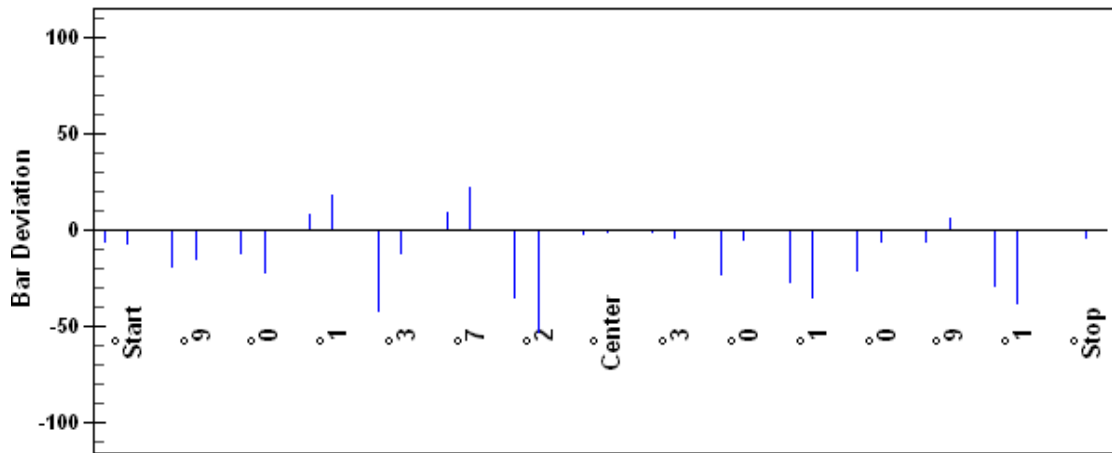
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| | | | | | |
|--------|----------------------|------------------------|-----------------|---|----|
| Center | -3 18 15 20 | -2 5 2 88% | 2 3 96% | 0 | 31 |
| 3 | -2 9 20 | -5 11 6 91% | 16 11 | C | 23 |
| 0 | -24 -5 -6 | -6 20 14 90% | 5 -1 | C | 20 |
| 1 | -28 4 16 | -36 32 -4 90% | 49 13 89% | C | 21 |
| 0 | -22 -10 -6 | -7 12 5 94% | 11 4 | C | 20 |
| 9 | -7 2 10 | 7 9 16 91% | 1 8 | C | 29 |
| 1 | -30 6 12 | -39 36 -3 94% | 44 5 91% | C | 21 |
| Stop | 0 5 0 | -5 5 0 96% | | | 30 |

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Histogram:



Barcode reflectance profile:

