

*The **AACC** CPOCT Division Presents*

***Promoting a Culture of
Quality and Consistency in
Critical and Point-of-Care Testing***

***24th International Symposium October 4-6, 2012
Hilton Prague Hotel Prague, The Czech Republic***



This activity has not been approved for category 1 CME credit because the conflict indicated by the speaker could not be resolved according to guidelines from the Accreditation Council for Continuing Medical Education.

AACC



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Utilizing IR Detection Technology in POCT Devices

Transforming the diagnostics industry
with performance-driven solutions

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Point of Care Business Unit

October 6, 2012

Agenda

1. Introduction to Siemens Point of Care

2. Infrared Technology

3. Real World Application

4. Future Promise

Agenda

1. Introduction to Siemens Point of Care

Siemens Healthcare Diagnostics



A Global Industry Leader

€3.7bn in sales

More than 14,000 employees

Serving 30,000 customers in more than 120 countries

Approximately 244,000 total instruments installed

R&D spending >9% of sales

Point of Care Our Value Proposition & Strategy

SIEMENS



Accurate and Actionable
Information

Rapid Turnaround
Time (TAT)

Improved Outcomes

- Make decisions within 30 minutes
- Ensure optimized clinical actions
- Provide better patient flow and outcomes

End-to-End Solutions: Leveraging the portfolio strength of Siemens Diagnostics



	Central lab testing	Point-of-care testing
Blood Gas		
Urinalysis		
Diabetes		
Cardiac / IA		

Siemens Diagnostics offers a strong portfolio of end-to-end solutions for major modalities

Stratus[®] CS200 Analyzer is under development and not available for sale

Siemens POC Portfolio and Connectivity

Blood Gas



Urinalysis



Diabetes



RAPIDComm[®] Data Management System

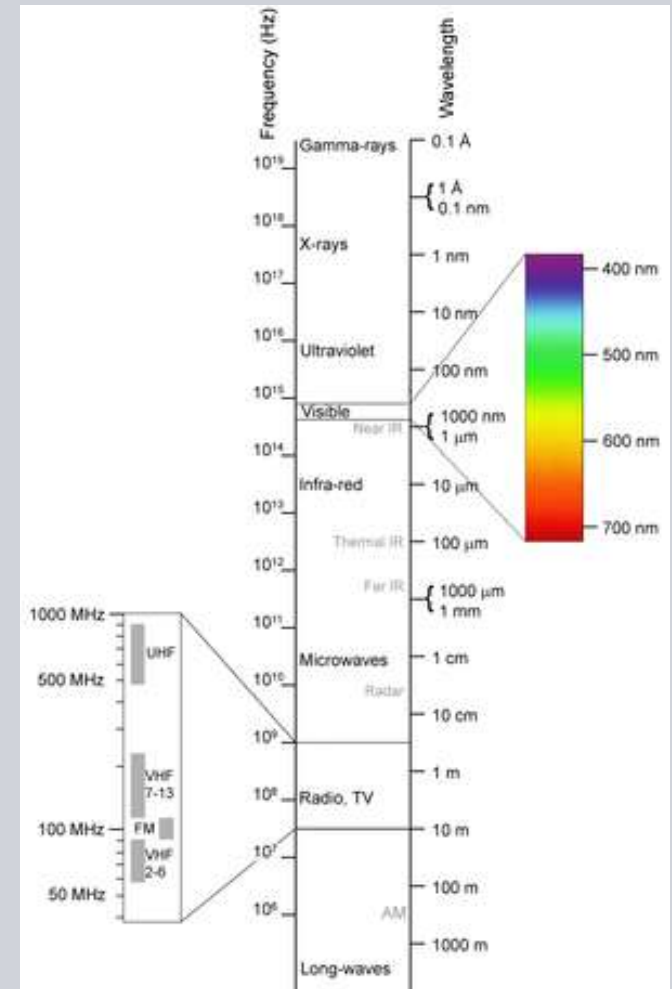
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2. Infrared Technology

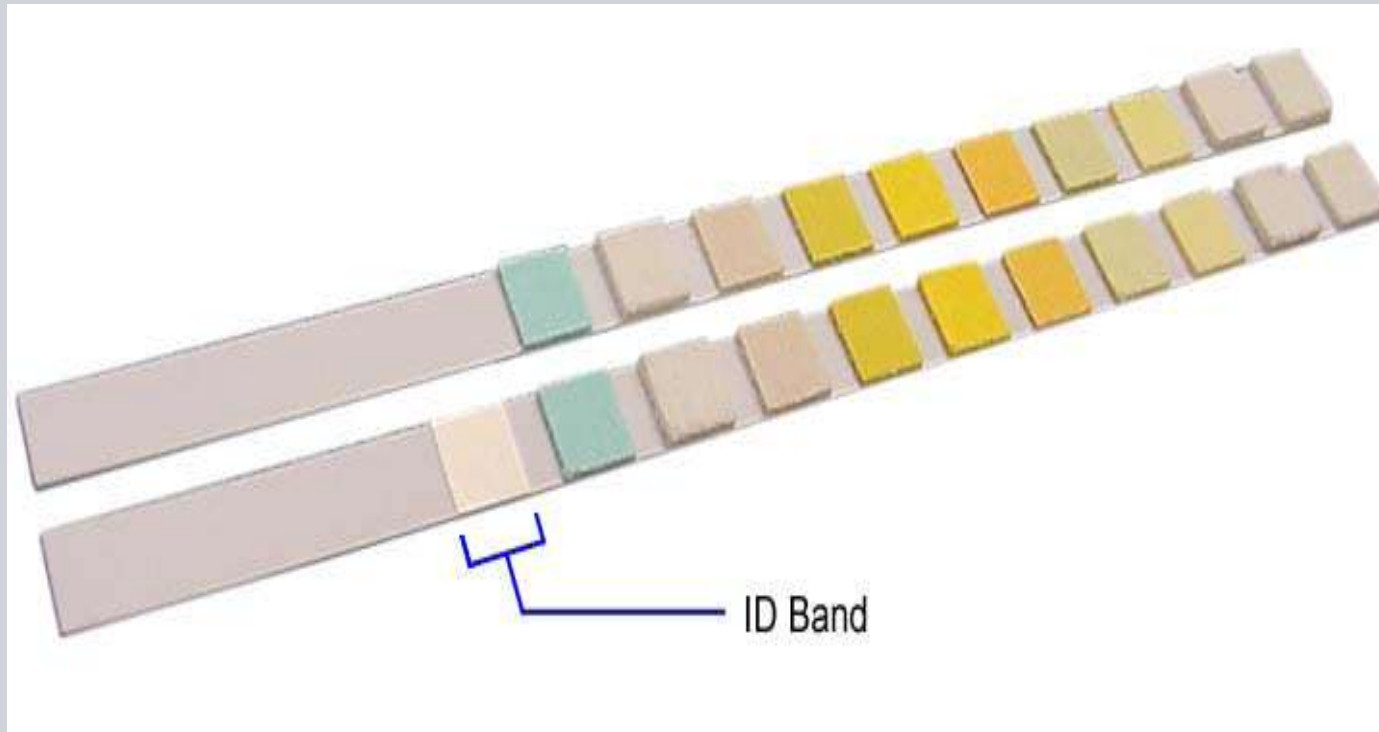
Wavelengths of Light

- Most wavelengths other than visible are not detected by human senses
- Infrared signal is emitted by specific chemical compounds
- When coated onto a white material the infrared containing solution is transparent
- Therefore the white material still appears white



Source: Wikipedia

Infrared signature on ID band drives “Auto-Checks”



Siemens has updated urine test strips to include a new identification (ID) band, which has been added near the strip handle. This ID band will appear as a white area on the strip, as shown in the figure. These banded strips can be used with the CLINITEK[®] line of analyzers and can be read visually.

Auto-Checks on Clinitek Status+[®] and Advantus[®] 3.0 systems



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ID band enables Humidity Degradation Detection

Siemens urinalysis strips in combination with the CLINITEK instruments can:

- **Reduce waste in terms of time and consumables.**
- **Improve the workflow in busy laboratory environments where multiple strip types are used.**
- **Prevent the reporting of false test results due to humidity degradation.**
- **Prevent treatment delays from environmentally compromised reagent strips.**
- **Avert the additional cost associated with increased testing.**

ID band provided Sample Interference Notes

- High Specific Gravity may cause falsely lowered Glucose results
- Elevated Glucose may cause falsely lowered Leukocyte results
- Visibly bloody urine may cause falsely elevated Protein results
- High pH may cause falsely elevated Protein results
- High Specific Gravity may cause falsely lowered Leukocyte results



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Future Possibility to Read Patterns

- Current technology detects Infrared or No Infrared in square block
- Potential to read line patterns
- Progress to block patterns
- Eventually 2D barcodes on strips

Over 100 Years of Innovation A History of Bringing New Products to Market

SIEMENS



“Our passion for innovation is what allows us to meet the needs of our customers all over the world—today and in the future.”

Michael Reitermann
Chief Executive Officer
Siemens Healthcare Diagnostics

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