# Clinical Information Systems

## One System with Multiple Solutions

ICU

Anesthesia EMR

Perfusion EMR

**Spectrum Medical**

*Safer Solutions for Safer Hospitals*
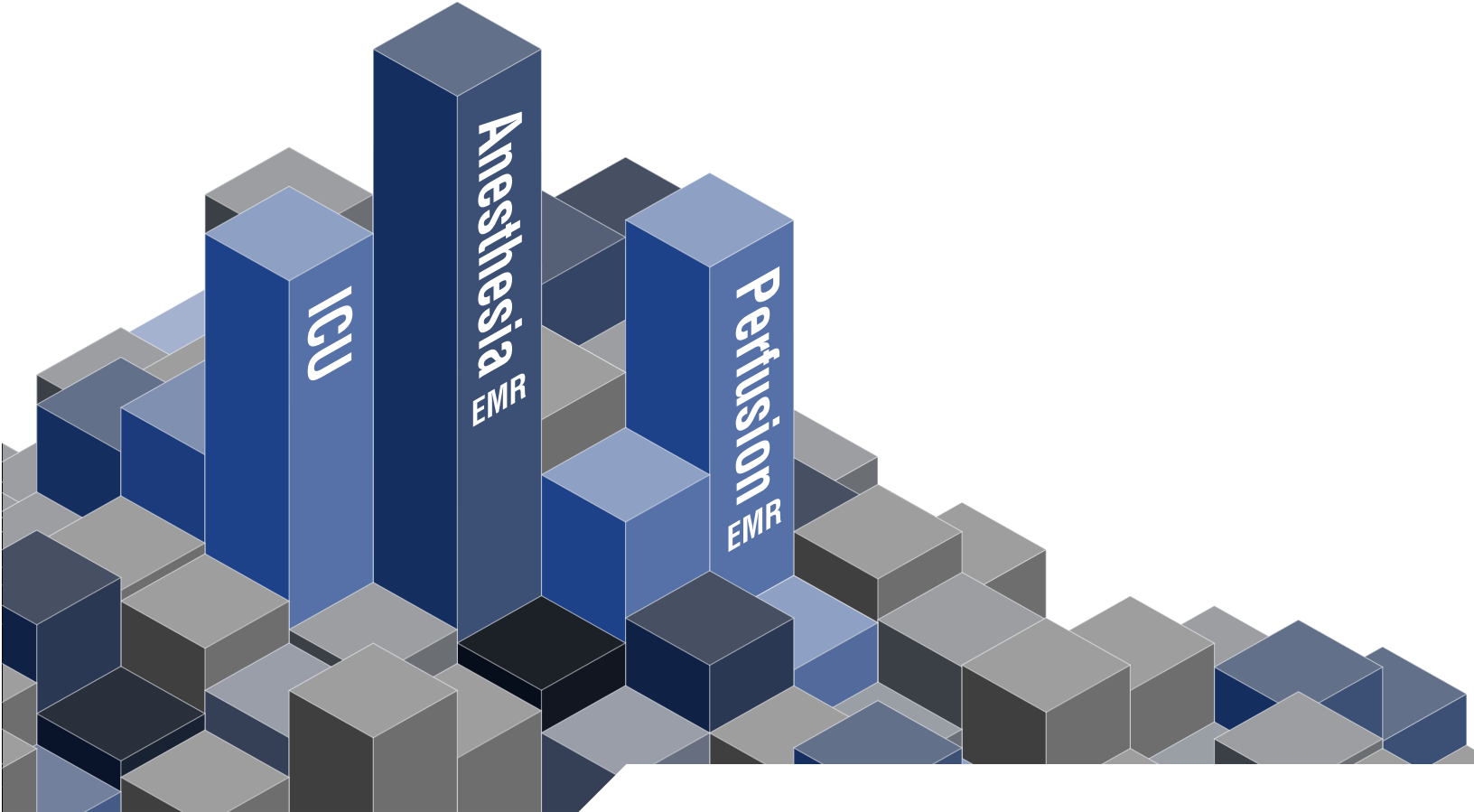
# Integrated Workstation and Tablet Solutions

The VIPER EMR module has been developed using an app-based architecture. This modern approach to software design ensures that the clinical interface is highly flexible and easy to configure for a wide range of clinical workflows.

Easy to learn and use, the VIPER EMR "App-Store" software is highly responsive with single tier navigation offering peace of mind that the process of electronic data collection will not impact patient care or patient safety. It is ideally suited as a solution for the clinical specialty areas not typically supported by larger enterprise systems or where flexible-workflow is a key requirement for clinical use.

## VIPER: The Next Generation Workstation designed for the Clinical Specialty

The VIPER Workstation utilizing the VIPER "App-Store" software is Spectrum Medical's solution to clinical interfacing, 3rd party device integration, data collection and the generation of an EMR for a range of clinical specialties including Anesthesia, Perfusion, Nursing and ICU.

Manufactured from medical grade aluminum materials with the latest capacitance touchscreen technologies, the VIPER Workstation complies with all current medical and safety regulations and comes with a 15" portrait screen.

## VIPER Tablet: Lightweight and Portable

Operating as either a standalone solution or as an adjunct to a VIPER Workstation installation, the VIPER Tablet adds mobility and flexibility to Spectrum Medical's world leading EMR solutions. Utilizing the identical "App-Store" software as that used in the VIPER Workstation minimizes user training and increases flexibility which is especially important when creating the Pre-Operative and Post Anesthesia Care records.

Furthermore, Wi-Fi capability enables the Tablet to stay connected to the VISION Server to ensure real-time HL7 integration with the HIS.

VIPER Tablet

VIPER Workstation

## Medical Device Connectivity:

To reduce the costs associated with EMR adoption, Spectrum Medical has integrated device connectivity as a standard capability within the VIPER Workstation, thereby eliminating the requirement for a third party connectivity solution provider.

Key features of VIPER's device connectivity solutions are:

• Positive patient association with all collected data.

• Data collection from all physiologic monitors and ancillary devices in the OR or specialty setting.

• VIPER's connectivity solution supports near real-time transfer of data for remote trending analysis and patient alert systems.

• Connectivity options including RS232, Wi-Fi and conventional wired networks.

# The Powerhouse behind Spectrum Medical's Clinical Information System

VISION is a sophisticated server application that is the hub of Spectrum Medical's EMR technology. VISION automates the system wide maintenance of software, the creation and transfer of patient records and inbound and outbound messaging to the HIS using HL7 and PDF formats.

## About VISION

VISION is loaded onto a customer supplied server (standalone or virtual) with access to Microsoft Windows Server 2008 or later and Microsoft SQL 2008 or later Workgroup Edition database. Using an interface engine supplied by Mirth Inc., VISION will support the download of ADT, Labs, Orders, etc. to VIPER's clinical interface. VISION will then allow data collected on VIPER to pass-through to the patient's EHR or other 3rd party applications using HL7 & XML interfaces & PDF uploads.

To maximize data security of active case records, the VISION server logs data on a real-time basis and maintains an active secondary record to the one being generated by the VIPER Workstation or Tablet. In the unlikely event that a VIPER should go off-line while a case is running, exchanging the monitor will immediately recover the case.

The VISION Server allows for the automatic distribution of all software upgrades as well as windows and security updates. The application provides utilities to support the management of user passwords and access privileges and can be fully integrated with Active Directory.

An important feature of the VISION server application is its integrated web browser capability, which allows for quick and easy access to information from any location within a hospital with a secure hospital VPN connection. A new feature for 2016 is the ability to launch into VISION reporting directly from an existing HIS implementation.

## Dashboards & Reporting

Spectrum Medical recognizes that dashboards and reporting systems are core to delivering information and clinical analytics across the continuum of health-care. To deliver this functionality Spectrum Medical has partnered with LOGI Analytics, a recognized leader in the field of data visualization and data analytics. The LOGI "tool-set" is now a standard module within the VISION server system.

## Case Playback

Case Playback is a technology that is used to retro-spectively re-play a patient's record in near real-time; continuous information including waveforms and all case related events, such as medication delivery, best practice alerts, personnel activity and so much more. Stop, Pause, Fast Forward and Re-Play are standard features within the Case Playback program.
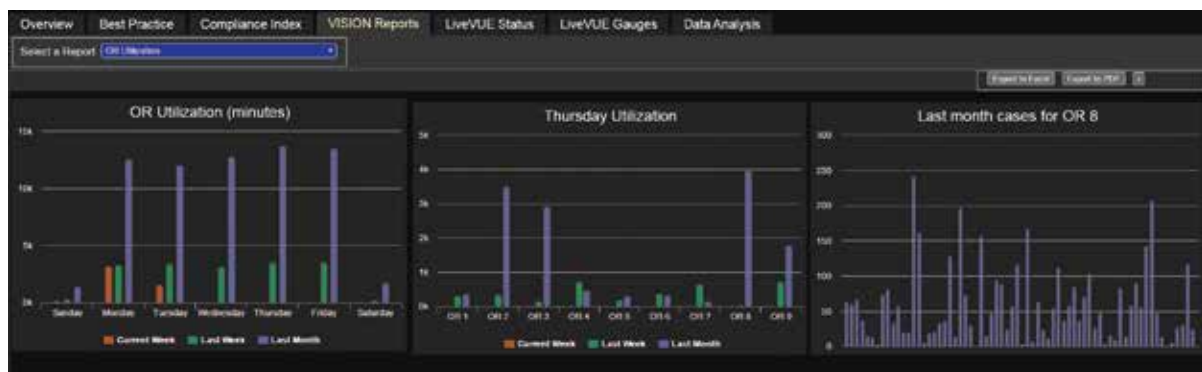


Utilization Report

# LIVE VUE







LIVE VUE is Spectrum Medical's web-based near real-time remote access tool. System privileges allow for the remote viewing of live clinical data, while hardware configuration supports detailed and simultaneous viewing of multiple patients in multiple locations.

## Integrated Alert Systems

A critical part of Spectrum Medical's LIVE VUE solution is its ability to be fully integrated with VIPER's Best Practice and Evidence Based Best Practice alert systems. These alert systems communicate both parameter alarms and non-compliant best practice alerts in near real-time over the VISION network to LIVE VUE's Command Center screen. Furthermore, LIVE VUE can be programmed to send email alerts to both attending physicians and supervising clinicians.

## LIVE VUE Configuration & Design

At the system level, LIVE VUE using integrated configuration tools is highly flexible in how patient specific data is presented. Multiple applications can be configured to display information that is clinically relevant to the individual specialty. The following LIVE VUE Applications can be activated by selecting a patient within Command Center:

| | |
|---|---|
| Vital Signs | EKG Readings |
| Medication Delivery | Nursing Events |
| Best Practice Alerts | Quality Indicators |
| Hemodynamics | |

# Anesthesia Interface Suite from Spectrum Medical and MEDITECH

Spectrum Medical and MEDITECH have joined forces to provide a suite of anesthesia interfaces sharing critical patient information between Spectrum Medical's Anesthesia Information System (AIMS) and MEDITECH's EHR. The exchange of data between the two systems bridges the clinical gap within the continuum of patient care, especially in the perioperative process.

Spectrum Medical's new collaboration with MEDITECH can help your team deliver improved patient care, safety and outcomes while potentially saving your hospital money through workflow automation time-savings and increased charge capture for billing.

## What's in the Anesthesia Interface Suite?

### Outbound from MEDITECH:

ADT
Allergies
Vitals
Medications (administered and home medications)
Labs
Scheduling
Direct launch into the Spectrum Medical patient's record

### Inbound to MEDITECH:

Anesthesia Report (text and pdf)
Allergies
Vitals
Home Medications
Billing
Problems
Direct launch into the MEDITECH patient's record

Continuous data exchange flows between the two systems, giving you access to information when and where you need it!

**Spectrum Medical**
*Safer Solutions for Safer Hospitals*

**MEDITECH**
Reimagining healthcare.
*Redefining productivity.*

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