VDA Remote Desktop Adapters

Remote Collaboration and Control over IP

Overview

VDA™ remote desktop adapters combine video and graphics with keyboard and mouse (KVM) control over IP. VDA technology adds remote capabilities to RGB Spectrum's control room management and display processing solutions, enabling support for remote operators, signal sources and display destinations.

The VDA line consists of two products: an encoder and a decoder. With VDA adapters, our full line of control room systems, video wall processors, multiviewers and switchers can accept IP inputs. The VDA adapters also extend system monitoring and control across a corporate LAN (and beyond) to make RGB Spectrum's solutions ideal for even the most demanding applications.
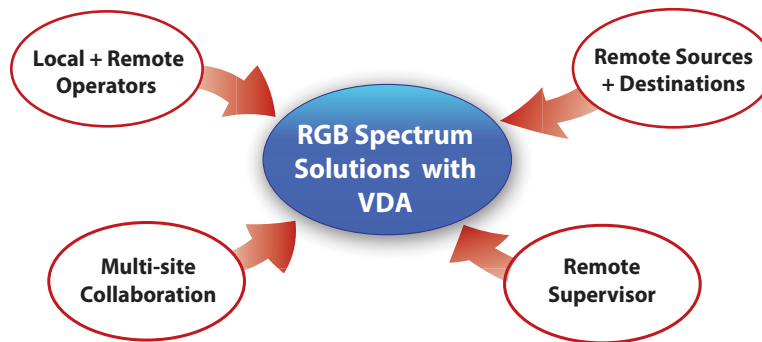
APPLICATIONS

- Command and Control Centers
- Security Operations Centers (SOCs)
- Emergency Operations Centers (EOCs)
- Industrial / Process Control
- Remote Monitoring / IP KVM Control

Beyond VNC

2x the Frame Rate • Clearer Text and Graphics • Secure Transmission

VDA adapters utilize a proprietary adaptive codec to provide excellent high motion video as well as crystal clear text and graphics transmission, far superior to industry-standard VNC compression. They are also highly-secure, using AES-256 and NSA Suite B cryptography to protect sensitive data. VDA remote desktop technology makes VNC obsolete.

Local + Remote Operators → **RGB Spectrum Solutions with VDA** ← Remote Sources + Destinations

Multi-site Collaboration → **RGB Spectrum Solutions with VDA** ← Remote Supervisor

Powerful Capabilities

Remotely Controlled PCs

VDA adapters enable control PCs to be remotely located in a server room, which simplifies installation and maintenance. A small VDA decoder appliance is all that is needed at the work location.

Remote Operators

VDA decoders at remote locations decode video, keyboard and mouse signals, allowing remote operators or supervisors direct access to the central control room.

Remote Signal Sources

Used together, VDA encoders/decoders add remote computer or video signal sources to a control system.

Remote Display Destinations

A single VDA encoder encrypts and transmits up to four signals for decoding and viewing at remote locations.

VDA Product Specifications

VDA 104E / 102E Encoders

VDA 104E / 102E standalone video encoders transmit signal sources and KVM control over IP. VDA encoders accept and encode video signals and deliver encrypted streams over a LAN or WAN. Encrypted keyboard and mouse control (KVM) signals are carried back to the graphics encoder over the same network.
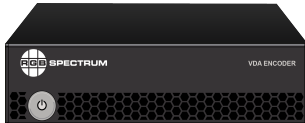
Video Inputs	4x single-link DVI or mini DisplayPort (model 104E)
	2x single-link DVI or mini DisplayPort (model 102E)
Resolution (maximum)	1920x1200
Network	10/100/1000 Base-T Ethernet
Power Supply	100-240 VAC, 50-60 Hz in; 18V DC, 2A out
Power Use (ave/max)	12/24W
Operating Temperature	0°C to 50°C
Cooling	Built-in forced air cooling system
Dimensions (w x h x d)	6.5" x 1.7" x 8.5" (165 x 43 x 216 mm)
Weight	4 lbs (1.81 kg)

VDA 104D / 102D Decoders

VDA 104D / 102D decoders work with a RACS unit or VDA encoder to decode up to four high-resolution graphics and full motion video signals, and provide remote keyboard and mouse control. The decoder is a standalone appliance that accommodates standard peripherals including keyboard, mouse, and multiple monitors.

Video Outputs	4x single-link DVI-D/DVI-I ports (model 104D)
	2x single-link DVI-D/DVI-I ports (model 102D)
Resolution (maximum)	1920x1200
Network	10/100/1000 Base-T Ethernet
Power Supply	100-240 VAC, 50-60 Hz in; 12V DC, 3A out
Power Use (ave/max)	12/24W (model 104D); 6/12W (model 102D)
Operating Temperature	0°C to 35°C
Cooling	Fanless cooling system
Dimensions (w x h x d)	6.5" x 1.0" x 5.3" (165.1 x 25.4 x 134.6 mm)
Weight	4 lbs (1.81 kg)