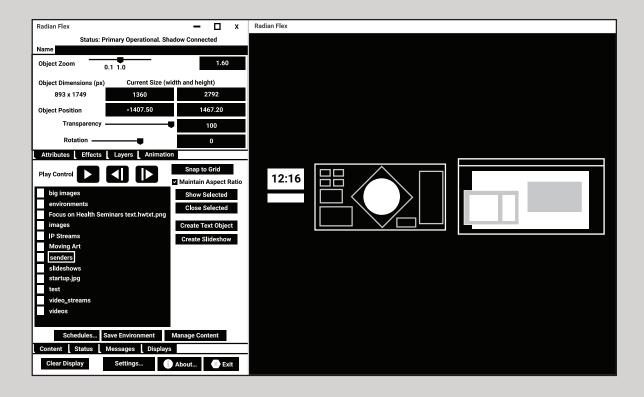
DATA SHEET

VW-FLEX-STD, VW-FLEX-PRO, LICENSING & MAINTENANCE

RADIAN FLEX VIDEO WALL SOFTWARE

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM





OVERVIEW

RADIAN FLEX DATA SHEET

INTRODUCTION

Radian Flex is a software-based solution that offers you a flexible, scalable, futureproof video wall processing platform that's ideal for digital signage, corporate, education, and mission-critical visualization applications.

NEW FEATURES

The Radian Flex Software v7.0 provides:

- SUPPORT FOR UP TO 80 IP VIDEO STREAMS PER COMPUTER. THIS ENABLES EXISTING HARDWARE TO MANAGE MORE SOURCES.
- MILESTONE VMS SUPPORT. DISPLAY AND MANAGE MANY SOURCES
 WITH FEWER RADIAN FLEX LICENSES.
- CENTRALIZED SOURCE CONTROL VIA A NEW TAB IN THE CONTROL PANEL ENABLES YOU TO ACCESS AND BROWSE A LIST OF ALL AVAILABLE SOURCES, CONTROL SOURCES VIA KVM, CREATE NEW RTSP STREAMS, AND OPEN BROWSER WINDOWS.
- STREAMLINE CONTROL AND SIMPLIFY THE USER EXPERIENCE WITH SMARTFRAME ENHANCEMENTS. MOVE OBJECTS, MAXIMIZE USABLE SPACE, PREVIEW LAYOUTS, AND SNAP TO GRID AUTOMATICALLY.
- BACKGROUND CONTENT SYNCHRONIZATION MINIMIZES DISRUPTIONS IF THE HARDWARE FAILS.
- CAPTURE A STATIC IMAGE OF AN EVENT FOR LATER EXAMINATION.
- DEFINE SMARTFRAME GRIDS ON A VIDEO WALL'S ENTIRE CANVAS
 WITHOUT DISPLAY BEZEL LIMITS.

Radian Flex Sync offers support for dvLED displays (requires VW-FLEX-SYNC license). It features:

- INDUSTRY-EXCLUSIVE DVLED VIDEO WALL SUPPORT IDEAL FOR BORDERLESS LED DISPLAYS
- STATE-OF-THE-ART SYNCHRONIZATION ACROSS MULTIPLE LED
 CONTROLLERS
- SUPERIOR VISUAL EXPERIENCE WITH SMOOTH, TEAR-FREE MOTION ACROSS MULTIPLE VIDEO WALL CONTROLLERS
- ELIMINATES VISUAL ISSUES ASSOCIATED WITH LATENCY

NOTE: Upgrades and licenses require an up-to-date Maintenance Agreement. Radian Flex Sync is purchased separately and is only available with Radian Flex software version 7.0.

LEGACY FEATURES

- FLEXIBLE—RADIAN FLEX GIVES YOU POWERFUL, SIMPLE, AND COMPLETE CONTROL OVER CONTENT AND DISPLAY, ENABLING CLEARER COMMUNICATION AND FASTER DECISION-MAKING.
- SCALABLE AND FUTUREPROOF—BECAUSE THERE'S NO HARDWARE, EXPANDING OR UPGRADING YOUR SYSTEM IS EASY AND COST-EFFECTIVE, AND THERE'S NO LIMIT ON THE RESOLUTION YOU CAN DISPLAY.
- FAILSAFE-WHEN IT HAS TO WORK NO MATTER WHAT, CHOOSE THE RADIAN FLEX PRO SUITE, WHICH SUPPORTS DUAL CONTROLLERS FOR INSTANT FAILURE RECOVERY WITH ZERO DOWNTIME.

Choose the Radian Flex that meets your needs:

- RADIAN FLEX STANDARD—OFFERS CORE RADIAN CAPABILITIES AND IS IDEAL FOR SIMPLE VIDEO WALL INSTALLATIONS THAT DON'T REQUIRE FAIL-SAFE OPERATION
- RADIAN FLEX PRO SUITE-DESIGNED FOR MISSION-CRITICAL VISUALIZATION SYSTEMS. DUAL CONTROLLERS ENSURE FAIL-SAFE OPERATION WITHOUT ANY DOWNTIME

Both suites include the following components:

CONTROLLER SOFTWARE AND USER INTERFACE

Radian Flex Pro Suite also includes the following features:

- FS FOR FAULT TOLERANCE: USES DUAL CONTROLLERS FOR FAIL-SAFE XT HD OR UHD VIEWER DRIVES YOUR VIDEO WALL'S DISPLAY DEVICES
- XD SOURCE LICENSE DELIVERS LIVE CONTENT TO YOUR WALLOPERATION AND ZERO DOWNTIME
- XV LAYOUT CONTROL: SUPPORTS MULTIPLE VIDEO WALLS FROM A
 SINGLE SYSTEM
- XM KVM CONTROL ENABLES YOU TO GAIN KEYBOARD AND MOUSE CONTROL OF A REMOTE SOURCE
- XA ACCESS CONTROL USER RIGHTS MANAGEMENT LICENSE
- USE XS SERVICES (API) TO CONTROL YOUR RADIAN FLEX SYSTEM FROM EXTERNAL APPLICATIONS AND DEVICES, SUCH AS TABLETS, SMARTPHONES, AMX, CRESTRON AND OTHER CONTROL SYSTEMS

Optional on both Radian Flex and Radian Flex Pro:

- XC OPERATOR ALLOWS YOU TO ACCESS YOUR VIDEO WALL CONTROL SYSTEM FROM A REMOTE WORKSTATION OR TABLET
- XCAST SOFTWARE ENABLES USERS IN DIFFERENT LOCATIONS TO SHARE LIVE FFEDS AND OTHER CONTENT, MAKING IT IDEAL FOR LARGE, MULTI-SITE ORGANIZATIONS

COMPARISON CHART

| FEATURE COMPARISON CHART | | |
|--------------------------|------------------------------------|------------------------------------|
| FEATURE | RADIAN FLEX STANDARD | RADIAN FLEX PRO SUITE |
| ANIMATION | INCLUDED | INCLUDED |
| CONTENT MANIPULATION | INCLUDED | INCLUDED |
| SCHEDULE AND RESTORE | INCLUDED | INCLUDED |
| SLIDE SHOW | INCLUDED | INCLUDED |
| SMARTFRAME | INCLUDED | INCLUDED |
| VIDEO ENGINE | INCLUDED | INCLUDED |
| FAULT TOLERANCE | NOT INCLUDED, PURCHASED SEPARATELY | INCLUDED |
| LAYOUT CONTROL | NOT INCLUDED, PURCHASED SEPARATELY | INCLUDED |
| XM KVM CONTROL | NOT INCLUDED, PURCHASED SEPARATELY | INCLUDED |
| XS SERVICES (API) | NOT INCLUDED, PURCHASED SEPARATELY | INCLUDED |
| DVLED DISPLAYS SUPPORT | NOT INCLUDED, PURCHASED SEPARATELY | NOT INCLUDED, PURCHASED SEPARATELY |



SYSTEM REQUIREMENTS

RADIAN FLEX AND RADIAN FLEX PRO CONTROLLER SOFTWARE

| SYSTEM REQUIREMENTS FOR RADIAN FLEX AND RADIAN FLEX PRO CONTROLLER SOFTWARE | |
|---|---|
| OPERATING SYSTEM | Windows 7 or later, 64 bit |
| ETHERNET | Gigabit |
| MINIMUM | CPU: Dual core 2 GHz, 2 GB RAM GPU: NVIDIA® x40, AMD® HD3xxx, or Intel® HD2000 |
| RECOMMENDED: | CPU: Intel fourth-generation (Haswell) or newer i5, 2.5 GHz or better, 4 GB dual channel RAM; GPU: NVIDIA GTX1050 |
| MONITOR AND GRAPHICS ADAPTER: | Vertical resolution of at least 900 pixels; wide format display is recommended; 1920x1080 pixels or larger preferred. |
| STORAGE: | At least 20 GB free storage plus more for stored content |

RADIAN XT VIEWER SOFTWARE

| SYSTEM REQUIREMENTS FOR XT VIEWER | |
|-----------------------------------|--|
| OPERATING SYSTEM | Windows 7, 8.1, or later |
| ETHERNET | Gigabit |
| MINIMUM | CPU: Dual core 2 GHz, 2 GB RAM GPU: NVIDIA® x40, AMD® HD3xxx, or Intel® HD2000 |
| RECOMMENDED: | CPU: Intel fourth-generation (Haswell) or newer i5, 2.5 GHz or better, 4 GB dual channel RAM GPU: NVIDIA Quadro P2000 or better, 2 GB or more dedicated graphics RAM |
| STORAGE: | At least 20 GB free storage plus more for stored content |

CAUTION:

Radian Flex doesn't support daisy-chained displays.

Radian Flex's wake-on-LAN features will not function on Intel Pro-enabled CPUs.

RADIAN XD SOURCE SOFTWARE

NOTE: Radian Xd Source software includes three components: Sender, Streamer and IP Streams

| SYSTEM REQUIREMENTS FOR XT VIEWER | | |
|-----------------------------------|---|--|
| SENDER | | |
| OPERATING SYSTEM | Windows 7 or later, OSX with Java 1.8 or later, or Linux with Java 1.8 or later. Virtual machine environments may be used | |
| ETHERNET | 100Mb or 802.11N wireless | |
| MINIMUM | CPU: Dual core 2 GHz, 2 GB RAM GPU: NVIDIA x30 or Intel HD4600 | |
| RECOMMENDED: | CPU: Intel fourth-generation (Haswell) or newer i5, 2.5 GHz or better, 4 GB dual channel RAM; GPU: NVIDIA GTX1050 | |
| STREAMER | | |
| OPERATING SYSTEM | Windows 7 or later, 64 bit | |
| ETHERNET | Gigabit | |
| MINIMUM | CPU: Dual core, 2 GB RAM NVIDIA® x40, AMD® HD3xxx, or Intel® HD2000 | |
| RECOMMENDED: | CPU: Intel fourth-generation (Haswell) or newer i5, 2.5 GHz or better, 4 GB dual channel RAM; GPU: NVIDIA GTX1050 | |
| IP STREAMS | | |
| OPERATING SYSTEM | Windows 7 or later, 64 bit, .NET 4.6.1 | |
| ETHERNET | 1 Gbps | |
| RECOMMENDED | CPU: Intel fifth-generation (Broadwell) or newer i7, 3.3 GHz or better, 16GB or more of main memory GPU: HD Graphics 6000 | |

SYSTEM REQUIREMENTS

RADIAN XC OPERATOR SOFTWARE

| SYSTEM REQUIREMENTS FOR XC OPERATOR SOFTWARE | | |
|--|---|--|
| OPERATING SYSTEM | Windows 7 or later, OSX with Java 1.8 or later, or Linux with Java 1.8 or later | |
| ETHERNET | 100 Mb or 802.11N (or better) wireless | |
| MINIMUM | CPU: Dual core, 2 GB RAM; | |
| RECOMMENDED: | CPU Dual core or more cores, 2.5 GHz or better, 2 GB RAM; Ethernet: 1 Gbps or 802.11N wireless | |

RADIAN XCAST SOFTWARE

| SYSTEM REQUIREMENTS FOR XCAST SOFTWARE | |
|--|---|
| OPERATING SYSTEM | Windows 7 or later (64 bit) |
| ETHERNET | Gigabit |
| MINIMUM | CPU: Dual core 2 GHz, 4 GB RA |
| RECOMMENDED: | CPU: Intel i5 3.3 GHz, 16 GB dual channel RAM, GPU: Discrete or embedded graphics controller required. |

KEY NODE SOFTWARE

| SYSTEM REQUIREMENTS FOR KEY NODE SOFTWARE | | |
|---|---|--|
| OPERATING SYSTEM | Windows 7 or later | |
| ETHERNET | Gigabit | |
| MINIMUM | CPU: Dual core 2 GHz or faster, 2 GB RAM GPU: Discrete or embedded graphics controller required. | |
| RECOMMENDED: | CPU: Quad core, 2 GHz or faster | |
| GRAPHICS CONTROLLER | Discrete or embedded graphics controller required. | |
| MONITOR AND GRAPHICS ADAPTER: | Vertical resolution of at least 800 pixels | |



NETWORK SWITCH REQUIREMENTS

| SYSTEM REQUIREMENTS FOR NETWORK SWITCH | | |
|--|--|--|
| ETHERNET | Non-blocking Gigabit Ethernet (all ports run at full wire speed with no packet loss). | |
| PROTOCOLS | The Gigabit Ethernet switch should support the following IGMP protocols: | |
| | IGMP Snooping | |
| | • IGMP Querier | |
| | IGMP Immediate-Leave (Fast-Leave) | |
| | If using multiple switches, use an inter-switch (stacking) link | |
| RECOMMENDED | Managed Layer 2 switch recommended. | |
| | Dedicated switch or a dedicated VLAN if VLANs are in use | |
| NOT RECOMMENDED: | Switches from Extreme Networks are not recommended because they have known imcompatibilities | |

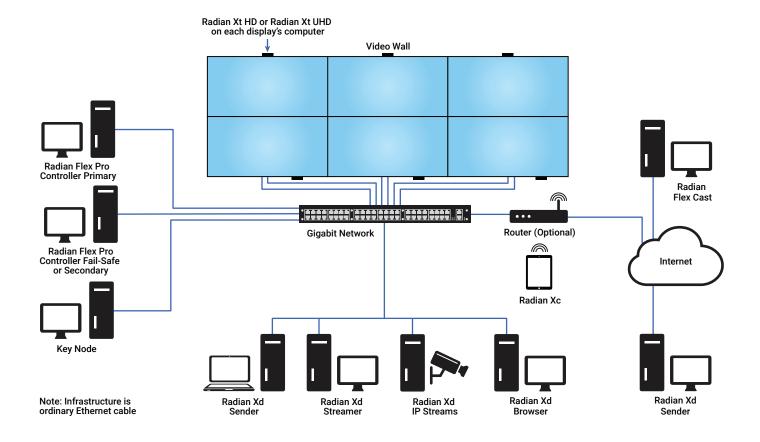
NOTE: Radian Flex Pro Suite Controller, Radian Flex Standard Controller, Key node computer, Radian Xd Viewer computers, and computers for Radian Xd Source streamers and IP Streams should be on the same subnet. It is acceptable to use two (or more) NICs to connect to multiple networks if needed.

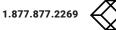
NOTE: "Minimum" specs are the minimum necessary to have Radian Flex function. These may or may not suit your needs. "Recommended" specs represent a typical Radian Flex system with HD video playback up to 1080p. CPU or GPU intensive applications running on Radian Xd Source software increase the performance requirements of your hardware.

To learn more about designing a Radian Flex video wall or distributed visualization system tailored to your needs, contact Black Box Technical Support at 877-877-2269 or info@blackbox.com Please include in your message where the system is being installed and details about the desired functionality.



APPLICATION EXAMPLE







ORDERING INFORMATION

| ITEM | CODE |
|----------------------------|----------------|
| Radian Flex Bundles | |
| Standard | VW-FLEX-STD |
| Pro Suite | VW-FLEX-PRO |
| Radian Flex Licenses | |
| Xt UHD Viewer | VW-FLEX-XT-UHD |
| Xt HD Viewer | VW-FLEX-XT-HD |
| Xd Sender | VW-FLEX-XD |
| Xm KVM Control | VW-FLEX-XM |
| Xc Remote Operator | VW-FLEX-XC |
| Xcast | VW-FLEX-XCAST |
| Xs Services API Control | VW-FLEX-XS |
| Xa User Rights Management | VW-FLEX-XA |
| Xv Advanced Layout License | VW-FLEX-XV |
| dvLED Resolution Control | VW-FLEX-LED |
| dVLED Displays Support | VW-FLEX-SYNC |

| ITEM | CODE |
|--|---------------------|
| Radian Flex Video Wall Software Maintenance | |
| Premium Suite | VW-FLEX-PRO-MAINT |
| Controller | VW-FLEX-STD-MAINT |
| FS — Fail Safe | VW-FLEX-FS-MAINT |
| XT HD Viewer | VW-FLEX-XTHD-MAINT |
| XT UHD Viewer | VW-FLEX-XTUHD-MAINT |
| LED Resolution Control | VW-FLEX-LED-MAINT |
| Sync LED Synchronization | VW-FLEX-SYNC-MAINT |
| Xd Source Applications | VW-FLEX-XD-MAINT |
| Xc Remote Operator | VW-FLEX-XC-MAINT |
| XCast Cast Source Sharing | VW-FLEX-XCAST-MAINT |
| Xm KVM Application | VW-FLEX-XM-MAINT |
| Xv Advanced Layout | VW-FLEX-XV-MAINT |
| Xs API | VW-FLEX-XS-MAINT |
| Xa User Access | VW-FLEX-XA-MAINT |

DISCLAIMER

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ABOUT BLACK BOX

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

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1.877.877.2269



