

# Velocityrgb

## Video Extension System-12 (transmitter only)

Powered by  
MRTS Technology



- Works in conjunction with a Velocity receiver (such as the Velocitydvi System-3, -3 A/V+, -3 A/N+ or Velocityrgb System-9 receiver)
- Supports one RGB video signal
- Supports 480p, 720p, and 1080i component video
- MRTS technology 6.22 Gbps allows for full frame rate transmission of uncompressed video
- Extends video signals up to 40 kilometers
- Signal transmission via fiber optic cable; no RF interference
- Full DDC2B/EDID support using two fibers
- Flawless image quality with no frame dropping

## The Logical Solution - Video Extension

The Velocityrgb System-12 is designed to support **one RGB display, full duplex stereo audio, and serial (RS-232)**. Using multi-mode or single-mode fiber, the system allows users to locate an analog monitor/projector via fiber from just a few meters up to 40 kilometers away from the controlling computer securely without the loss of resolution. In addition to this standout capability and performance, the Velocityrgb System-12 supports 480p, 720p, and 1080i component video.

### MRTS Technology Provides 6.22 Gbps Allowing for Full Frame Rate Signal Transmission

Powered by Thinklogical's cutting edge, patent-pending MRTS (Multi Rate Transmission System) technology, this digital video extension system transports every frame of a video stream seamlessly, with no compression or dropped frames. In addition, all high speed peripherals function with no latency. Leveraging standard SFP+ transceivers, the system allows for the usage of either multi-mode or single-mode fiber optic cable.

## The System - Support for Component Video

The Velocityrgb System-12 is available as a transmitter only; it works in conjunction with a Velocity receiver, such as the Velocitydvi System-3 receiver, Velocitydvi System-3 A/V+ receiver, Velocitydvi System-3 A/N+ receiver, or Velocityrgb System-9 receiver. The Velocityrgb System-12 transmitter is connected to a Velocity receiver by multi-mode or single mode fiber optic cable. The transmitter unit connects to an analog video source with a suitable cable and the receiver unit provides connections to the display device. A +5V DC power supply is required on both the transmitter and receiver.

The Velocityrgb System-12 requires two fibers. The transmitter supports RGB video formats up to 165MHz. In addition, the transmitter supports component video inputs from DVD players, Blu-ray players, set-top boxes, and SD/HD cameras. The component video is converted into RGB colorspace for display on standard VGA or DVI monitors. YPbPr inputs of 480p, 720p, and 1080i at 60Hz are supported.

The Velocityrgb System-12 also has a local RGB video display port, and is compatible with all Thinklogical Velocity fiber video receivers, whether RGB or DVI.

## Key Features

- Supports RGB video resolutions
- Supports 480p, 720p, and 1080i component video
- MRTS technology 6.22 Gbps allows for full frame rate transmission of uncompressed video
- Signal transmission via fiber optic cable; no RF interference
- Requires one or two fiber optic cables depending on application
- Flawless image quality with no frame dropping
- Extends video signals up to:
  - 750 meters using OM3+ multi-mode fiber
  - 1000 meters using OM4+ multi-mode fiber
  - 40 kilometers using single-mode fiber
- Local RGB/component output
- Audio and serial port for A/V applications
- DDC2B/EDID compliant
- Simple plug and play
- Class 1 laser product
- Available with SC-, ST-, or LC-type fiber connectors
- Compatible with all Thinklogical Velocity fiber video receivers



## Velocityrgb System - 12 Ordering Information

### Velocityrgb System - 12 Transmitter:

#### Part Number and Description

##### SINGLE-MODE

VEL-AV0S12-SCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display & VGA Port, Serial, Audio, Single Mode, SC/UPC

VEL-AV0S12-LCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display & VGA Port, Serial, Audio, Single Mode, LC/UPC

VEL-AV0S12-STTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display & VGA Port, Serial, Audio, Single Mode, ST/UPC

##### OPTICS OPTIONS for SINGLE-MODE

VOP-S05

Velocity 12 Optics Option for Transmitter, Single Mode, Dual Fiber, 10KM, SC/UPC or ST/UPC

VOP-S11

Velocity 12 Optics Option for Transmitter, Single Mode, Dual Fiber, 10KM, LC/UPC

##### MULTI-MODE

VEL-AV0M12-LCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, LC

VEL-AV0M12-SCTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, SC

VEL-AV0M12-STTX

Velocity 12 RGB Video Extender Transmitter, Single Link RGB, Video Component, Local Display, Local VGA Port, Serial, Audio, Multi-Mode, ST

##### OPTICS OPTIONS for MULTI-MODE

VOP-M01

Velocity 12 Optics Option for Transmitter, Multi-Mode, Dual Fiber, 50M or 350M or 1000M, SC or ST

VOP-M04

Velocity 12 Optics Option for Transmitter, Multi-Mode, Dual Fiber, 50M or 350M or 1000M, LC

##### Cables

(Qty 2) CBL000016-006FR 3.5MM TO 3.5MM PLUG M/M, 6FT

(Qty 1) CBL000017-006FR DB9M TO DB9F CABLE, 6FT

(Qty 1) CBL000020-002MR HD15M TO HD15M CABLE, 2M

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