



# GVS9000 CTR Instant Replay Controller

## GVS9000 CTR

9000 Control Slow Motion is a compact new playback controller for News, Sports, Scoreboard and other editing operations. It makes precise control of professional GVS9000 VTRs, GVS 9000 DDRs or Edit station controller support Adobe, Apple, Avid and Sony product for quick and easy operation. It's a full featured machine editor and universal Jog/Shuttle remote. It's sleek design and low cost, make it the perfect addition to GVS9000 VTR product as well as edit suites, remote trucks and studio applications.

Available options include:

- Features Controls all GVS9000 VTRs and DDR products
- Assemble, Insert, Crash and Disable (Lock) Editing Modes
- Mark In and Mark Out keys store up to 12 custom programe
- Control GVS9000 VTRs via USB, or Ext Fibre 1000m distance
- Slow motion control sends Shuttle, Jog or Variable Play
- Dynamic slow motion replays directly accessed
- 12 Programmable Preset Modes
- Programmable Cueing Modes - Automatic Play All Cues Function
- Jump to end, jump to begining or mark in/out points
- 16 Variable Replay Speeds
- Switching and loading different clips
- Global record lock feature
- Direct support for GVS9000 VTR Costume programing keys
- Integrated USB cable minimizes desktop clutter. A single cable extends 10' so that all connections can be hidden neatly away from the operator doesn't require power connection.

Slow Motion controller:

## GVS9000 Control



### GVS9000 VTR Controller the highest quality content controller for editing and post-production

SloMo features include professional transport buttons, choice of Sony Jog/Shuttle Wheel for convenient picture search operations, a high-quality select button for slow motion and shuttle tape alike operation, an easy to scroll for accurate clip selection, a full size fast access function keys and an integrated single cable to minimize desktop clutter.

## CTR SPECIFICATON

### Electrical:

Operating voltage 5 volts, 150 mA from USB  
Interface USB or RS422 (w/5V ext. power)  
2 meter attached cable

### Environmental:

Operating Temperature +10°C to +40°C  
Storage Temperature +0°C to +50°C  
Operating Humidity 20% to 80% (noncondensing)

Storage Humidity 10% to 90% (noncondensing)

### Physical:

Unit Dimensions 34mm L x 32mm W x 28.4mm H /  
81/2" L x 61/2" W x 3" H  
Shipping Dimensions 39.7mm L x 33.7mm W x 32mm H /  
141/4" L x 81/4" W x 61/2" H

Unit Weight 1.36kg. / 3.00lbs.

Shipping Weight 2.56kg. / 5.65lbs.

### Compliance:

WEEE Compliant  
IEC EN-55013, EN-55020  
following the provisions of  
89 / 336 / EEC, EMC Directive.  
PSE JET 1362 - 61010 - 2008 - 2  
UL Listed E202402

Part Number	Model Number	Interface Type	Number VTR	Variable Speed	Number of Interface	Audio Interface	2K & 4:4:4 Interface	Power Supply
GVS9000 CTR-USB/RS422	9000CTR	USB/RS422	1	16	1	N	N	RS422 5V





# 9000 CTR-MIX Instant Replay Controller

slow-motion 4xvtr controller:

## 9000 CTR-MIX

### 9000 CTR-MIX

Slow Motion is a compact new controller for News, Sports, Scoreboard and other editing operations. It makes precise control of professional VTRs, DDRs or Server Channels quick and easy. It's a full featured 4-machine editor and universal Jog/Shuttle remote. It's sleek design and low cost, make it the perfect addition to edit suites, remote trucks and other studio applications.

Available options include:

- Features Controls a wide range of VTRs and DDRs
- Assemble, Insert, Crash and Disable (Lock) Editing Modes
- Mark In and Mark Out keys store up to 500 total cue location points
- Simultaneous Control up to 4 VTRs, DDRs or Server Channels via 4 RS-422 9Pin Serial Ports Or via USB)
- T-Bar Control for slow motion control sends Shuttle, Jog or Variable Play
- Dynamic slow motion replays directly accessed from the `T` bar
- T-Bar Programmable - Min-Max, Preset Speeds, Active or Passive Modes
- Programmable Cueing Modes - Automatic Play All Cues Function
- Log Operation useful in QC Applications
- 16 Variable Replay Speeds
- EE/PB switching
- Global record lock feature
- Direct support for GVS9000 VTR
- Integrated quad snake/power cable minimizes desktop clutter. A single cable extends 10' so that all connections can be hidden neatly away from the operator including a remote power connection.



### GVS9000 VTR Controller the highest quality content controller for editing and post-production

Slow-Motion features include professional transport buttons, choice of Sony Jog/Shuttle Wheel for convenient picture search operations, a high-quality T-Bar for slo-mo and shuttle tape operation, an easy to read 2 x 16 VF display for accurate editing, a full

### MIX SPECIFICATON

#### Electrical:

Operating voltage 5 volts, 150 mA from USB

Signal Interface USB v1.1

2 meter attached cable

#### Environmental:

Operating Temperature +10°C to +40°C

Storage Temperature +0°C to +50°C

Operating Humidity 20% to 80% (noncondensing)

Storage Humidity 10% to 90% (noncondensing)

#### Physical:

Unit Dimensions 34mm L x 32mm W x 28.4mm H /

81/2" L x 61/2" W x 3" H

Shipping Dimensions 39.7mm L x 33.7mm W x 32mm H /

141/4" L x 81/4" W x 61/2" H

Unit Weight 1.36kg. / 3.00lbs.

Shipping Weight 2.56kg. / 5.65lbs.

#### Compliance:

WEEE Compliant

IEC EN-55013, EN-55020

following the provisions of 89 / 336 / EEC, EMC Directive.

PSE JET 1362 - 61010 - 2008 - 2

UL Listed E202402

Part Number	Model Number	Interface Type	Number VTR	Variable Speed	Number of Interface	Audio Interface	2K & 4:4:4 Interface	Power Supply
GVS9000VTR-SLO	9000CTR MIX	RS422	4	16	4	N	N	N/A
GM1XU2X522DB04	GVS90001XU-ISC	USbt	4	8	4GB Fiber	2-ch	N	

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Product specifications are subject to change without notice.

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# 9000 CTR-Pro Instant Replay Controller

## 9000 Control Pro

GVS9000 Control Pro Slow Motion is a compact new playback controller for News, Sports, Scoreboard and other editing operations. It makes precise control of professional GVS9000 VTRs, GVS 9000 DDRs or Edit station controller support Adobe, Apple, Avid and Sony product for quick and easy operation. It's a full featured machine editor and universal Jog/Shuttle remote. It's sleek design and low cost, make it the perfect addition to GVS9000 VTR product as well as edit suites, remote trucks and studio applications.

Available options include:

- Features Controls all GVS9000 VTRs and DDR products
- Assemble, Insert, Crash and Disable (Lock) Editing Modes
- Mark In and Mark Out keys store up to 12 custom programe
- Control GVS9000 VTRs via USB, or Ext Fibre 1000m distance
- Slow motion control sends Shuttle, Jog or Variable Play
- Dynamic slow motion replays directly accessed from the 'T' bar
- T-Bar Programmable - Min-Max, Preset Speeds, Active or Passive Modes
- Programmable Cueing Modes - Automatic Play All Cues Function
- Log Operation useful in QC Applications
- 16 Variable Replay Speeds
- EE/PB switching
- Global record lock feature
- Direct support for Doremi V1 and V1 MP2
- Integrated quad snake/power cable minimizes desktop clutter. A single cable extends 10' so that all connections can be hidden neatly away from the operator including a remote power connection.

Slow Motion controller:

## GVS9000 Pro Control



### GVS9000 VTR Controller the highest quality content controller for playback and HD SDI Preview QC

Slow Motion features include professional transport buttons, choice of Jog Shuttle Wheel for convenient picture search operations, a high-quality select button for slow motion and shuttle tape alike operation, easy to scroll for accurate clip selection, full size fast access function keys and an integrated HD SDI display 1920x1080 HD resolution touch screen preview window. This entire controller setup with a GVS switch system can manage your entire control room in less than a 1U (1.75" high) rack space.



Part Number	Model Number	Interface Type	Number VTR	Variable Speed	Number of Interface	HD SDI Interface	Display Reslution	Power Supply
9000VTRSLO-Pro	9000CTR-Pro	USB	1	16	12	2	1920x1080	2



# GVS9000 Control Pro specifications



## Video Modes Input:

- Rec/Play time Play visually lossless
- HD SDI and SD SDI
- Analog HD and Analog SD
- 12-bit HD analog component
- 12-bit SD analog composite S-Video SD D1  
720x486 720p 60 720p 59.9 720x576 625i 525i
- Dual Link 4:4:4 or 2K input and output (opt)
- 2K 2048 x 1556 24p, 24psf, 48i 1920x1080  
4.4.4 1080psf 23.98 1080i29.97

## Video Modes Output:

- Two Independent SD and HD SDI Single Link output
- Analog Component
- Dual link 4:4:4 (RGB) I/O (opt)
- Dual link 4:2:2:4 Video + Key (YUV) I/O (opt)

## Analog: SD and HD Output, 12-bits, BNC:

- HD: YPbPr, RGB
- SD: YPbPr, RGB (component mode)
- Composite/YC (composite mode)

## Audio:

- Quantization: 16-bit, 20-bit, 24-bit selectable
- 8 or 16 channels S/P DIF BNC audio SDI embedded
- 2 or 8 channels of AES/EBU XLR audio 48kHz or 96kHz

## GVS9000 technical specifications:

- 4GB Dual Fibre Channel
- 650 Watt Power supplies

## Genlock:

- Analog: SD: Black Burst, Bi-Level; HD: Tri-Level
- Digital: SD : SD SDI; HD : HD-SDI, QuLink

## Play Control:

- Dual 10/100/1000BT Network and for small file transfer

## Interface:

- RS-422: D-sub 9-pin Control Master and Slave
- RS-232: 3-sub 9-pin
- FireWire 800 two port
- USB 2.0 two ports
- LTC In/Out BNC

## Operating shock:

- 2940 m/SEC (300 G)/2ms
- 1568 m/SEC (160 G)/1ms

## Non-operating shock:

- 9800 m/sec<sup>2</sup> (1,000 G)/1ms

## Electrical and environmental requirements:

- Meets ENERGY STAR requirements
- Line voltage: 450W 100-125V AC or 200-240V AC
- Frequency: 50Hz to 60Hz, single phase
- Maximum current: 4.25A (low-voltage range)
- Operating temperature: 50° to 95°F (10° to 35°C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 feet

## Size and weight:

- Height: 1.75 inches
- Width: 17.65 inches
- Depth: 21 inches
- Weight: 25/per I/O lb

The chart below is designed to provide viable information for calculating the storage requirements for your production environment based on 4.0TB storage and the total hours it delivers at different compression rates. It also gives a breakdown of how much storage you will need for 48 hrs. of video at these compression rates.

Time/Size Video Format	Compression Rate	Data Rate MB/sec	Storage For 1 Min/MB	15 Min. Require GB	Storage Required 1 Hour/GB	4 TB Provides Hours	48 Hrs. Requires STORAGE
SMPTE 259	1 to 1	270	16,200	243	972	4.1 hr	46,656 GB
1080p 4.4.4 10-bit 29.97	1.08 to 1	249	14,930	224	896	4.5 hr	42,998 GB
1080p 4.4.4 10-bit 25	1.3 to 1	207	12,420	186	745	5.4 hr	35,770 GB
1080p 4.4.4 10-bit 23.98	1.4 to 1	199	11,940	179	716	5.6 hr	34,387 GB
1080i 4.2.2 10-bit 59.94	1.5 to 1	166	9,953	149	597	6.7 hr	28,666 GB
1080i 4.2.2 10-bit 50	2 to 1	138	8,280	124	497	8.1 hr	23,846 GB
1080p 4.2.2 10-bit 23.98	2 to 1	133	7,980	120	479	8.4 hr	22,982 GB
720p 4.2.2 10-bit 59.94	2 to 1	133	7,980	120	479	8.4 hr	22,982 GB
1080i 4:2:2 8-bit 59.94	2 to 1	124	7,465	112	448	8.9 hr	21,500 GB
1080i 4.2.2 8-bit 50	3 to 1	104	6,221	93	373	10.7 hr	17,916 GB
720p 4.2.2 8-bit 59.94	3 to 1	100	6,000	90	360	11.1 hr	17,280 GB
1080p 4.2.2 8-bit 23.98	3 to 1	100	6,000	90	360	11.1 hr	17,280 GB
MJPEG	6 to 1	45	2,700	41	162	24.7 hr	7,776 GB
MPEG2	8 to 1	34	2,025	30	122	32.9 hr	5,832 GB
SD 10-bit Uncompressed	10 to 1	28	1,680	25	101	39.7 hr	4,838 GB
SD 8-bit Uncompressed	13 to 1	21	1,242	19	75	53.7 hr	3,577 GB
DVCPRO HD	22 to 1	13	750	11	45	88.9 hr	2,160 GB
DV50	43 to 1	6	375	6	23	177.8 hr	1,080 GB
MPEG2	65 to 1	4	240	4	14	277.8 hr	691 GB
DV25	87 to 1	3	186	3	11	358.4 hr	536 GB
MPEG1	194 to 1	1	83	1	5	799.4 hr	240 GB

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