- Easy integration in systems with various formats of input and output signals
- 17 year exploitation experience for hundreds of systems in many countries
- Superb performance / price ratio
- Efficient and convenient service
Each and every Guramex switcher is developed for creating stable and functional workflow of a production studio. Wide range of equipment, in bundle with budget-sensitive price, will meet the requirements of any facility – starting from small sized studios, ending with huge media giants.

Control Panel

All Control Panels are compatible with Main Units:
GVM120H & GVM2400H & GVM3600H.

Control Panels are represented in 1 ME and 1,5 ME versions. But with ME Plus™ you get increased production capabilities by obtaining one more additional ME and in fact, getting 2 ME and 2,5 ME switcher instead of expected one.

GVM 810 Control Panel
8 direct access buttons 1(2) M/E

GVM 1610 Control Panel
16 direct access buttons 1(2) M/E

GVM 1615 Control Panel
16 direct access buttons 1.5(2.5) M/E

GVM2425/ GVM3625 production switchers, intended primarily for big live studios.

GVM 2425 Control Panel
24 direct access buttons 2.5 M/E

GVM 3625 Control Panel
36 direct access buttons 2.5 M/E

Modular scalable Control Panel

M/E Crosspoint Section

- Any quantity of INPUTS
- Any Architecture (scalable M/E quantity)
- Various Application of Sections

NEW

Create Your Surface!
Main Unit

GVM 3600H Main Unit
up to 36 inputs / 24 outputs

Configuration of Inputs/Outputs according user priorities
You can change the configuration (number of Inputs/Outputs) while operating

CPU Module
Available in Basic Configuration of Switcher

Interface Module
Available in Basic Configuration of Switcher

Input Module
Up to 6 input modules (4 input per module) can be installed

Output Module
Up to 4 output modules (4 output per module) can be installed

Optional Modules
(for future implementation)

Redundant Power Supply
Available in Basic Configuration of Switcher

Audio Outputs
Analog (balanced stereo), digital (AES – EBU)

2xHD/SD-SDI and 2xDVI Outputs
Free Assignable to:
PGM, PVW, Multiview1, Multiview2

REF In
BB/Tri-Level

REF Out
BB/Tri-Level

Tally Outputs

4 x RS-422

LAN

12 GPI IN

12 GPI OUT

Slots for Input Modules Installation

Slots for Output Modules Installation

quad Split Output
Dedicated Quad Split (QS) output is represented on each input module.

4 input HD/SD-SDI
(Each with Frame Syncronizer, and Format Converter)

Display:
- input number
- presence of input signals
- format of input signals

Display:
- output number
- presence of output signals
- format of output signals

Dedicated output is Quad Split (QS) represented on each input module.

Available in Basic Configuration of Switcher

LAN1   LAN2
RS422-1
TALLY29-56
RS422-2  RS422-3  RS422-4
TALLY1-28 GPI IN  GPI OUT

GVM 2400H Main Unit
up to 24 inputs / 16 outputs

Optional Modules

Dedicated output is Quad Split (QS) represented on each input module.
GVM 120H Main Unit

- 6 Inputs (HD/SD-SDI, PAL, HDMI), each with Frame Synchronizer and Format Converter.
- 3xHD/SD-SDI and 2xHDMI Outputs Free Assignable to: PGM, PVW, Aux1 - Aux3, Multiview1, Multiview2.
- Optional Analog/ AES Audio inputs/outputs;
- 4 GPI Inputs / 4 GPI Outputs;
- RS-422 port;
- 16 Tally Outputs;
- Reference input (BB or Tri-Level) and adjustable reference output (BB or Tri-Level);
- Redundant Power Supply in Main Unit and Control Unit;
- Dual MultiViewer;
- Robotic Camera Control (VISCA, PELCO);
- Video Server/ Automation Control (SONY 9 pin, GVG-100, GPI protocols);
- TSL UMD v3.1 Serial Tally Protocol;
- Video Routers Control;
- 2 Channel Animation Store with Sound;
- SuperWipe (Enhanced Media Transition) with Sound;
- Animated Logo Generator;
- 5 Keys with Luma/Linear/Chroma or DVE Keying;
- 3 Channel Floating 2D DVE for Picture in Picture Boxes and Key Sources;
- Custom Control Macros;
- 100 Event Memory System;
- USB Media Drive for storing/loading of switcher configuration, memories;
- Free assignable Clean Feed output;
- WaveForm Analyzer Build in;
- Display of Availability and Format of Signals for each of Input;
- Processing of Embedded and External Audio Signals;
- Input and Output Audio Levels Monitoring and Control;
- Ancillary Data Pass-through, Switching, Generation and insertion.
ME Plus™

ME Plus™ – increases your production capabilities by creating additional ME, thus transforming Broadster into production switcher with additional ME possibilities and spirit!

With ME Plus™ you gain:
Extra 1 ME production possibility
Extra 2 Keyers with Chroma, Luma and Video Keys

Combined signal, created in ME Plus™ mode, can be used as an independent internal source in multi-line production. At the same time it can be delegated to auxiliary output and used as an independent program output.

MultiView

Fully integrated, up to 4 channel internal solution for the multi-screen image is at your service. MultiViewer allows you to display up to 16 video streams on a single screen in different modes. The output signal has a resolution of 1920x1080 and is displayed via DVI/HDMI and HD-SDI outputs.

Each video stream has its own audiometer, UMD and plenty of other markers. Any external or internal formed video signal can be used as a source for multiviewer.

WaveForm Analyzer

Switchers have build in oscilloscope, which allows to analyze parameters of signal.
Switchers provide wide opportunities for keying: starting with 7 and up to 12 Full-featured Keyers, including DSK, are available. High quality Chroma-key, Luma-key, Video-Key and Preset Pattern are included in switcher basic configuration.

Moreover each of the 5 Floating 2D DVE Channel can be used as a key fill source.

**Outstanding Picture-in-Picture performance**

Create combined image with up to 5 scaled pictures and background with possibility of Dynamic Transition of combined images. The pictures can be moved, resized, repositioned, cropped and given colored border. The flexibility of implementation makes the PIP function a powerful tool for production. 5 x 2D / DVE windows + background can be used as an additional source, without occupying keying channels.

Yet, in case of need, there is simultaneous distribution of 2D / DVE resources to KEY and the "Picture in Picture" function.

**Audio Processing**

**Audio Control for Inputs**

Up to eight channels of audio may be extracted from each input HD/SD-SDI video signal. For each input you can easily:
- select audio couple which will be used for further processing inside switcher.
- adjust audio level

**Audio Outputs on CPU Module**

Switchers have Analog (balanced stereo), digital (AES–EBU) and 2 x SDI outputs for audio tracking of graphic transitions (SuperWipe). Can be assigned for different purposes.
**Event memory**

Created to allow each user to save his frequently used switcher configuration, Event Memory memorizes up to 1000 states, 16 of which (12 for GVM810) can be assigned to hot recall buttons in “One Touch Section”.

**Macros function**

Allows create editable user macros. Macro is a sequence of states and transitions that can be played automatically or step by step mode. Moreover through macros can be provided control via GPI.

**Animated Logotype generator**

A special channel for Animated Logogenerator with audio. Supports most popular - AVI video format. Simply upload the picture and drag it into right place on the screen.

**Internal Video Storage**

You may upload own designed graphic wipes, TV headband or background clips with audio to the switcher’s Dual-channel nonvolatile video storage. Each channel can store about 100 slides and clips with total duration up to 5 min (25 frame/sec).

**Super Wipe – creativity in motion**

Along with standard cut, mix and wipe transitions you can enjoy with your own designed creative transitions, combined with graphic and audio. About 96 Super Wipe transitions can be stored in the internal storage with total duration up to 5 min (25 frame/sec).

**Robotic Camera Control**

Robotic Camera Control provides possibility to control the broadcasting process independently, by changing studio cameras position in certain range. Cameras are simply controlled and adjusted by joystick. Zooming is also provided. Any adjustment can be stored in Broadster’s memory and easily recalled by pushing single button.
Switcher Control Variations

1. Control Panel with 4.8” LED Touch Screen monitor
   Solid Panel with Intuitive Menu.

2. External Optional Touch Screen Monitor with GUI
   Extended and more comfortable version of Menu. Works with CP only.

3. Software control – CP Sole Replacement / Simultaneous Control Element
   Able to replace the CP, as well as work at the same time as assisting board.

4. Remote Android Tablet Control
   Distance control over switcher. Can be used as assisting board.

External Device Control

Switchers enable integrated control over various external devices like VTR, TSL, Servers, Routing Systems and UMD through LAN, RS422 and GPI interfaces.
<table>
<thead>
<tr>
<th>Features</th>
<th>GVM810</th>
<th>GVM1610</th>
<th>GVM1615</th>
<th>GVM2425</th>
<th>GVM3625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of M/E’s (including ME Plus™)</td>
<td>1</td>
<td>1 (2)</td>
<td>1.5 (2.5)</td>
<td>2.5</td>
<td>2.5</td>
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<tr>
<td>Inputs with Auto Detection</td>
<td>8(up to 12) HD/SD-SDI or HDMI 2 ANALOG CVBS</td>
<td>16(up to 24) HD/SD-SDI</td>
<td>16(up to 24) HD/SD-SDI</td>
<td>24 HD/SD-SDI</td>
<td>36 HD/SD-SDI</td>
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<tr>
<td>Outputs free assignable</td>
<td>up to 9: 7 x HD/SD-SDI 2x HDMI Free assignable</td>
<td>8 (up to 16) HD/SD-SDI Free assignable</td>
<td>8 (up to 16) HD/SD-SDI Free assignable</td>
<td>16 HD/SD-SDI Free assignable</td>
<td>24 HD/SD-SDI Free assignable</td>
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<tr>
<td>Frame Synchronization on each Input</td>
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<td>Free Assignable Outputs</td>
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<td>16</td>
<td>16</td>
<td>16</td>
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<tr>
<td>Internal/External Synchronization</td>
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<td>Keyers</td>
<td>5</td>
<td>8</td>
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<tr>
<td>Internal Slide and Movie Storage Channels</td>
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<tr>
<td>Internal Animated Logo Generator</td>
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<td>yes</td>
<td>yes</td>
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<td>Number of dynamic images in Picture In Picture</td>
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<td>5</td>
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<td>Super Wipe function</td>
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<tr>
<td>Integrated MultiView Channels HDMI/DVI and HD/SDI out</td>
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<td>Quad Split out</td>
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<td>6</td>
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<td>Audio inputs/outputs option</td>
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<td>Audio Processing</td>
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</table>

Guramex production switchers are 100 % reliable. That is why we offer free 5 year warranty!