

ProGuard

Live UHD/3G/HD Broadcast Delay System



Evertz **ProGuard** enables you to protect your live broadcasts from offensive video or audio content. With ProGuard, broadcasters of live content can guard against unexpected or unwanted events (nudity, offensive images/language or technical issues) going to air by providing up to 30 seconds of delay (in UHD). This flexible delay allows operators to correct offensive material to meet regulations and maintain program continuity.

ProGuard provides a simple and easy to use interface for operators to quickly conceal unwanted video or audio content.


ProGuard offers flexible and comprehensive delay techniques beyond simple video switches and audio beeps to meet demanding broadcasting requirements and simplify live production workflows.

Video Protection Options

- Switch to alternative safe feed
- Blur or defocus video content
- Insert video black, static/animated graphic or safe content/clip

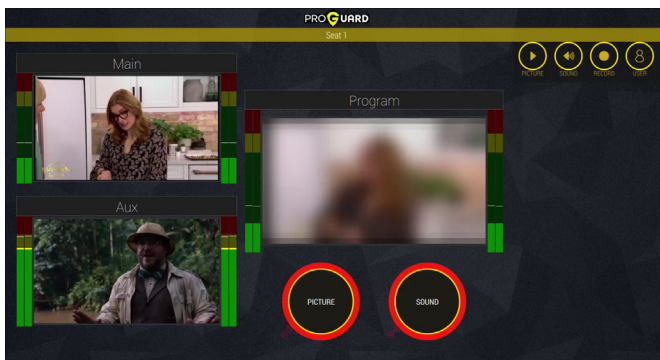
Audio Protection Options

- Switch to alternative safe feed
- Mute, shuffle or swap audio channels
- Insert safe audio content or beep



Features & Benefits

- Intuitive user controls using **VUE** on touch screens
- Use robust Xkeys panels for configurable panic button panels*
- Built-in multi-viewer to show incoming program and safe feeds, outgoing clean and dirty feeds
- Support for multiple operators



VUE User Interface



* Optional Xkeys Panel Support

AV SOLUTIONS
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MULTIVIEWERS
RF SOLUTIONS
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Specifications

I/O Interfaces:

SDI: DIN 2.0, up to 8x 3G/HD/SD configurable (~3G versions) or 16x 3G (for ~UHD versions)

IP: 4x 10GbE ports (SMPTE ST 2110 or SMPTE ST 2022-6), 2x 1GbE

Supported I/O Formats:

SDI I/O: SMPTE ST 424M (3Gb/s), SMPTE ST 292M (1.5Gb/s), SMPTE ST 259M (270Mb/s)

Video Standard: 2160p/50*, 2160p/59.94*, 1080p/50, 1080p/59.94, 1080i/50, 1080i/59.94, 720p/50, 720p/59.94

Audio Support:

- Support for 16x channels of PCM audio embedded per SMPTE ST 272M

Reference/Genlock:

- Bi-level/tri-level sync/PTP/master PCR

Vertical Blanking Interval:

- Transparent passthrough of all VANC data

Control Interface:

- 2x 1GbE ports

GPIO:

- 32x vGPIO

Physical:

Rack Size: 2RU

Dimensions: 16.93" W x 3.44" H x 27.95" D (439mm W x 89mm H x 712mm D)

Gross Weight: Approx. 54 lbs (24.5 kg)

Storage Capacity: 1TB RAID 1

Electrical/Environmental:

Power Supply: Voltage (auto-ranging): 100–127V AC (50–60Hz), 10A, 900W max. power; 200–240V AC (50–60Hz), 6A, 1,100W (max. power) 500W

Power Usage: In-Rush Current: 3.6A (120V/60), 2A (208V/60)

Temperature: 10–35°C (50–95°F)

Non-operating Temp.: -40–70°C (-40–158°F)

Relative Humidity: 50–90% (non-condensing)

System Cooling: 6x 60x38mm heavy duty PWM fans

Configurable Operator Reaction Time

ProGuard provides an easy to configure reaction time from 1–5 seconds, allowing your operators to react reliably to eliminate offensive behavior or actions before they go on-air.

Future Proof

ProGuard provides support for HD/3G/UHD 4:2:2 10-bit formats with High Dynamic Range (HDR) and uncompressed IP formats (SMPTE ST 2022-6 and ST 2110).

Full Redundancy

ProGuard uses dual power supplies and solid state devices as standard features to maximize its reliability. In the case of SDI, internal bypass relays are triggered in the case of power loss.

ProGuard is built upon technology created by the team that originated profanity delay systems and has been used by major broadcasters globally. ProGuard is a platform designed for any format and interface type to guard your live broadcasts for now and the future.

Ordering Information

PROGUARD-3G-2

Dual-channel 3G/HD/SD broadcast delay system with standard SDI I/O. Optional 10G I/O support.

PROGUARD-UHD

Single-channel UHD or dual-channel 3G/HD/SD broadcast delay system with standard SDI I/O.

PROGUARD-10G-2

Dual-channel 3G/HD/SD broadcast delay system with 10G I/O (4x 10GbE ports). Native support for SMPTE ST 2110 and ST 2022-6.

PROGUARD-3G-VM

Single-channel 3G/HD/SD broadcast delay system for cloud application. Compressed MPEG-2/H.264 I/O. Contact factory for details.

PROGUARD-UHD-VM

Single-channel UHD/3G/HD/SD broadcast delay system for cloud application. Compressed MPEG-2/H.264 I/O. Contact factory for details.

Ordering Options:

+10G

Optional support for dual 10G I/O for PROGUARD-3G-2 only

SFP Options:

SFP10G-TR13-A

10G optical transceiver, 1310nm, SMF, 10km, LC connectors

SFP10G-TR85

10G optical transceiver, 850nm, MMF, 300m, LC connectors

SFP25G-TR13

25G optical transceiver, 1310nm, SMF, 10km, LC connectors

SFP25G-TR85-A

25G optical transceiver, 850nm, MMF, 100m on OM4 fiber, LC connectors

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