streamstar

MULTI-CAMERA LIVE BROADCASTING
AND STREAMING PRODUCTION SOLUTIONS

streamstar | IPX 860

8-channel live production studio
with 6-channel replay & slomo

streamstar | IPX 860

Extreme performance, robust and reliable,
live production and streaming studio
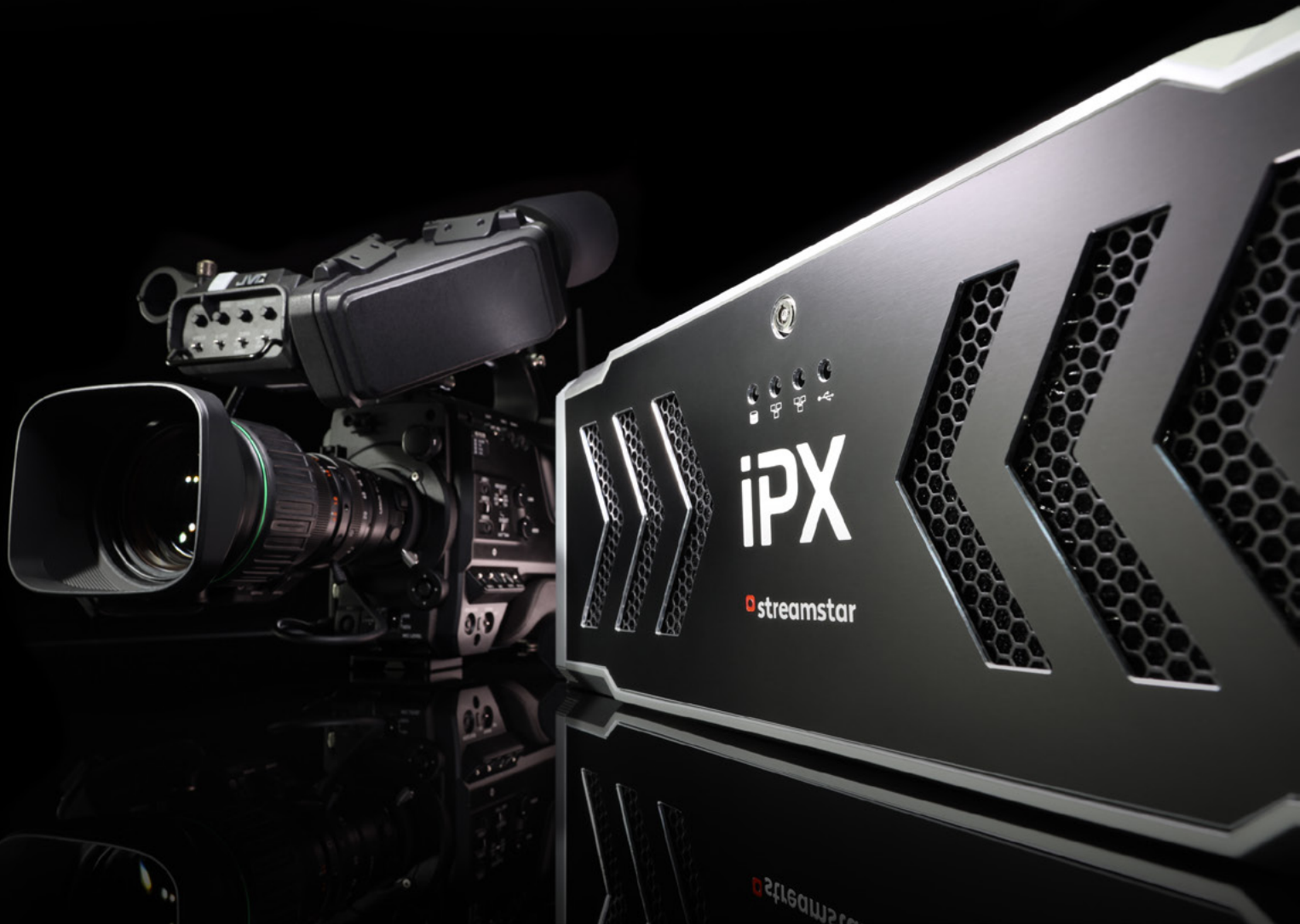that delivers broadcast quality results.

It supports a wide range of inputs
and offers a set of professional features,
fine-tuned for live sports production,
including Streamstar's outstanding
replay and slow motion system.

streamstar | IPX 860

FEATURE HIGHLIGHTS:

- Intuitive, easy-to-use touch screen user interface
- 8 channels HD-SDI | IP | NDI inputs
- HD-SDI | NDI | RTMP | TS output
- 4x Insert layers - Logo | Overlay | CG | Ingest
- Cut/Crossfade/Transitions automated switching modes
- 6x Replay channels with Slomo and Freeze frame
- Internal CG Live sports graphics
- Replay matrix playout system with playlists
- Dynamic replay camera switching
- Sequential replay playback
- Freeze frame in replays
- Replay lead in/out animations
- External sports graphics over NDI
- Built-in Multiview with 3 modes
- Built-in Audio mixer
- Recording - ISO | PGM | Stream | Replays

- Built-in encoder for Live streaming
- Multi-channel Instant Replays with Slow-motion
- Media player, Playlists and Highlights creator
- JVC camcorder IP based CCU and Tally
- JVC smart PTZ control
- Premium CONNECTED features*
- Redundant power supply
- AutoCut - automatic camera switching after replays or media
- Ingest on/off Automation in replays
- Media editing with IN/OUT points
- PIP and Split screen layouts
- Multi framerate 50fps / 60fps operation
- True 4:4:4:4 ARGB video processing
- Popular streaming platforms integration
- Simulcasting - streaming to 5 destinations simultaneously
- Facebook Live direct streaming integration
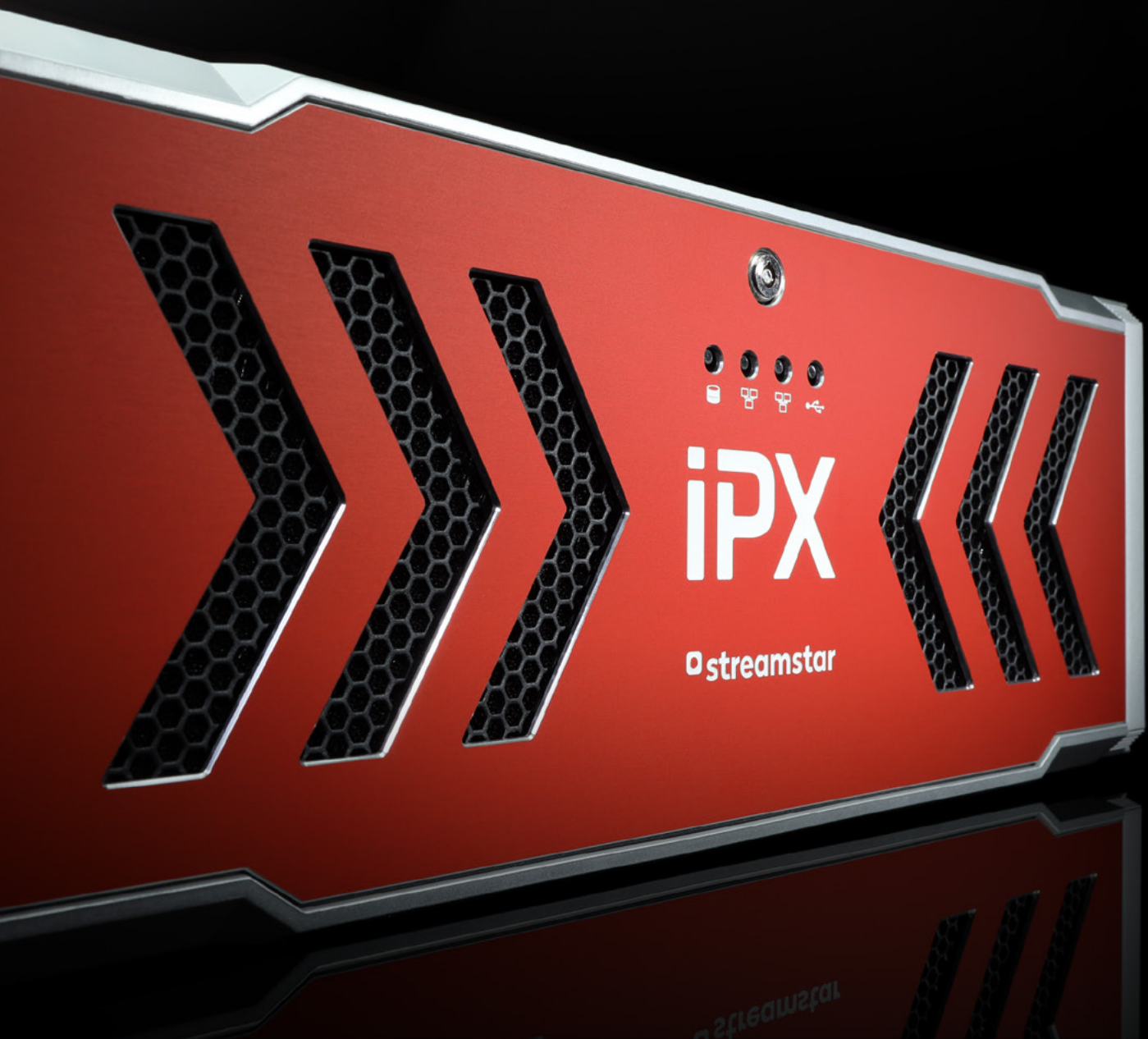
streamstar | IPX 660

6-channel live production studio with 6-channel replay & slomo

streamstar | IPX 660

Extreme performance, robust and reliable,
live production and streaming studio
that delivers broadcast quality results.

Wide range of inputs, professional features,
and Streamstar's outstanding replay and slow
motion system, make it the best choice
for professional live sports production.

streamstar | IPX 660

FEATURE HIGHLIGHTS:

- Intuitive, easy-to-use touch screen user interface
- 6 channels 3G HD-SDI | IP | NDI inputs
- 3G HD-SDI | NDI | RTMP | TS output
- 4x Insert layers - Logo | Overlay | CG | Ingest
- Cut/Crossfaade/Transitions automated switching modes
- 6x Replay channels with Slomo and Freeze frame
- Internal CG Live sports graphics
- Replay matrix playout system with playlists
- Dynamic replay camera switching
- Sequential replay playback
- Freeze frame in replays
- Replay lead in/out animations
- External sports graphics over NDI
- Built-in Multiview with 3 modes
- Built-in Audio mixer
- Recording - ISO | PGM | Stream | Replays
- Built-in encoder for Live streaming
- Multi-channel Instant Replays with Slow-motion
- Media player, Playlists and Highlights creator
- JVC camcorder IP based CCU and Tally
- JVC smart PTZ control
- Premium CONNECTED features*
- Redundant power supply
- AutoCut - automatic camera switching after replays or media
- Ingest on/off Automation in replays
- Media editing with IN/OUT points
- PIP and Split screen layouts
- Multi framerate 50fps / 60fps operation
- True 4:4:4:4 ARGB video processing
- Popular streaming platforms integration
- Simulcasting - streaming to 5 destinations simultaneously
- Facebook Live direct streaming integration

iPX

streamstar

Streamstar IPX series Technical Specifications

Streamstar | IPX

FEATURES	IPX 860	IPX 660	DESCRIPTION
Total live camera inputs - vision mixer	8	6	Vision mixer SW GUI features live camera preview monitors that function as switches for touch-screen switching operation
3G / HD-SDI Input	8	6 (3G)	Supported resolutions and framerates: IPX 860 : 720p50, 1080i50 (embedded audio support) IPX 660 : 720p50, 1080i50, 1080p50 (embedded audio support)
NDI Input	8	6	Supported resolutions and framerates: IPX 860 : 720p25, 720p50, 1080p25, 1080i50 (NDI HX) IPX 660 : 720p25, 720p50, 1080p25, 1080i50, 1080p50 (NDI HX)
IP Stream Input	8	6	IPX 860 : 720p25, 720p50, 1080p25 / IPX 660 : 720p25, 720p50, 1080p25, 1080p50 in H.264+AAC, 10 Mbps max bitrate per input, supported protocols: RTSP, MPEG-TS, UDP, RTMP PULL, HLS PULL
External graphics input with transparency over NDI	1	1	Supported resolutions and framerates: IPX 860 : 720p25, 720p50, 1080p25 / IPX 660 : 720p25, 720p50, 1080p25, 1080p50
NDI output - PGM	1	1	Supported resolutions and framerates: IPX 860 : 720p50, 1080p25 / IPX 660 : 720p50, 1080p25, 1080p50
Replay channels with slow-motion playback	6	6	6 instant replay channels - user definable. Capture replays of 3 different durations by a push of a button. Replay durations are setup by user as required. The replay system offers 3 automated playback modes: 1. Direct Replay Playback matrix: switch to and from any replay anytime 2. Sequential Replay Playback (SRP): create sequences of replay looks 3. Dynamic Replay Camera Switching (DRCS): synchronized playback of all replays and switching replay cameras in real-time. The replay systems offers variable playback speed, freeze frame, Auto-Cut: select a camera for automatic cut to live, after replay playback is finished, add replays to playlist for instant highlights creation, replay wipes: custom lead-in and lead-out animations, statistics of replay-wipes usage for monetization purposes, recording of all replays captured as separate files with audio
3G/HD-SDI output - PGM (HDMI included)	●	●	Supported resolutions and framerates : IPX 860 720p50, 1080i50 / IPX 660 720p50, 1080i50, 1080p50
Multiview output (GPU based HDMI or DP)	●	●	3 modes available select from: PGM / Camera Grid / PGM + Camera Grid combined
USB audio card support (external audio mixer)	●	●	External audio mixer as a source support
Media playback	●	●	Playback, Preview, Add to Playlist, Mute, Loop, Virtual in/out points trim
Playlists media management system	●	●	Creation of virtual playlists of media files to assemle blocks of content to be used in PGM with playback, loop, audio mute, automatic pause / continue functionality when switched
Real time camera preview, media, graphics	8	6	Preview of all camera channels + all media files and graphics
Switching - Mixing - PIP and Split layouts	●	●	Cut, Autocut, Crossfade, Transition wipes (9), PIP and SPLIT SCREEN templates (9) editable
Automated Scene manager, Show automation	●	●	Allows users to pre-program and time all operations needed for the entire broadcast in advance to create automated production workflows. In live production a single operator can instantly trigger complex visual compositions and control the execution of sophisticated broadcasting timelines with minimal effort
Graphics DSK - unlimited	●	●	4 DSK layers with transparency: 1. CG - Character Generator	2. OVERLAYS - flv, mov, png	3. LOGO (Bug) - flv, mov, png	4. INGEST - External graphics ingest over NDI
Internal CG with templates	●	●	Creation of editable live graphics - lower 3rds, titles, crawls or timers with dynamic data controls based on supplied templates or user graphics
NDI PGM Recording	●	●	IPX 860: 720p50, 1080p25 / IPX 660: 720p50, 1080p25, 1080p50 - identical to NDI Output setting
PGM stream recording	●	●	IPX 860 : Up to 1080p25 @ up to 10Mbps - identical to Live Streaming setting / IPX 660 : Up to 1080p50 @ up to 10Mbps - identical to Live
ISO recording of camera inputs	6	6	Internal file recording of camera input singnals at incoming parameters
Live Streaming	●	●	IPX 860 : Up to 1080p25 @ up to 10Mbps / RTMP/S or TS (H.264 + AAC) / IPX 660 : Up to 1080p50 @ up to 10Mbps / RTMP/S or TS (H.264 + AAC)
Simulcasting	●	●	Streaming to up to 5 simultaneous destinations
Audio Mixer	●	●	Integrated, full featured audio mixer with monitoring, audio follow video, muting, solo, peaking, stereo lock/unlock, audio delay setup
Supported Media Playback Formats	●	●	.mp4, .m4v, .mov, .wmv, .mpg, .mpeg, .ts, .avi, .flv
NDI PTZ control	●	●	NDI PTZ camera control over NDI based on provided features availability and depending on the NDI standard
JVC Smart PTZ Control	●	●	JVC PTZ camera control over IP - Motion with presets, Zoom with presets, Camera Groups with presets, Tally, Auto/Manual modes, Recording, Iris, Gain, Shutter, WB, Zero Config automatic setup
JVC IP based CCU and Tally	●	●	JVC camcorders remote control over IP - Tally light, Recording On/Off, Auto/Manual modes, Iris, Gain, Shutter, WB settings, Zero Config
GPIO control	●	●	2 customisable GPIO controls with user defined parameters to trigger external devices and/or actions
Save/Load Settings	●	●	Integrated save/load system settings to create various custom configurations and specify default settings for system startup
PIP/SPLIT Screen templates editor	●	●	Utility application to customize the provided default PIP/SPLIT Screen templates and to save/load custom configurations for the Streamstar SW
Crawl CG automated RSS 2.0 data feed	●	●	Support for automated RSS 2.0 data feed to create text crawls with the internal CG module
Optional Accessories	●	●	Streamstar dedicated, colour coded keyboard, Hardware validation license key
Form Factor	●	●	4RU rack
Dimensions without handles	●	●	(Dx Wx H) 430 x 430 x 180 (mm)
Packing dimensions and weight	●	●	(DxWxH) 600mm x 560mm x 280mm / Weight: 17 kg

streamstar | X series

Broadcast quality live production on any budget

The 3rd generation of high-performance, live production streaming studios offers a wide range of configurations and professional features, including Streamstar's outstanding replay & slow motion system.
It is the best and smartest choice for live sports productions of any size with the ambition to deliver broadcast quality results.

streamstar | X2

2-channel live production studio with 2-channel replay & slomo

◘streamstar | X series

FEATURE HIGHLIGHTS:

- Intuitive and easy-to-use touch screen user interface
- 2-6x 3G/HD-SDI / IP stream / NDI inputs (model depending)
- HD-SDI / HDMI/ NDI / RTMP / TS output
- 4x Insert layers - Logo / Overlay / CG / Ingest
- Cut/Crossfade/Transitions automated switching modes
- Internal CG Live sports graphics
- External sports graphics over NDI
- Built-in Multi-view with 3 modes
- Built-in Audio mixer
- Recording - ISO / PGM / Stream / Replays
- Built-in encoder for Live streaming
- Multi-channel Instant Replays with Slow-motion
- Media player, Playlists and Highlights creator
- JVC camcorder IP based CCU and Tally
- JVC smart PTZ control

- Replay matrix playout system with playlists
- Dynamic replay camera switching
- Sequential replay playback
- Freeze frame in replays
- Replay lead in/out animations
- AutoCut - automatic camera switching after replays or media
- Ingest on/off Automation in replays
- Media editing with IN/OUT points
- PIP and Split screen layouts
- Multi framerate 50fps / 60fps operation
- True 4:4:4:4 ARGB video processing
- Popular streaming platforms integration
- Simulcasting
- Facebook Live direct streaming integration

Streamstar X series Technical Specifications

streamstar | X series

FEATURES	X7	X4	X2	DESCRIPTION
Total live camera inputs - vision mixer	6	4	2	Vision mixer SW GUI features live camera preview monitors that function as switches for touch-screen switching operation
3G / HD-SDI Input	6	4	2	Supported resolutions and framerates: 720p50, 1080i50, 1080p50 (embedded audio support)
NDI Input	6	4	2	Supported resolutions and framerates: 720p25, 720p50, 1080p25, 1080i50, 1080p50 (NDI HX)
IP Stream Input	6	4	2	Supported resolutions and framerates: 720p25, 720p50, 1080p25, 1080i50, 1080p50 (NDI HX)
External graphics input with transparency over NDI	1	1	1	Supported resolutions and framerates: 720p25, 720p50, 1080p25, 1080p50
NDI output - PGM	1	1	1	Supported resolutions and framerates: 720p50, 1080p25, 1080p50
Replay channels with slow-motion playback	4	4	2	2 - 4 instant replay channels - user definable/model dependant. Capture replays of 3 different durations by a push of a button. Replay durations are setup by user as required. The replay system offers 3 automated playback modes: 1. Direct Replay Playback matrix: switch to and from any replay anytime 2. Sequential Replay Playback (SRP): create sequences of replay looks 3. Dynamic Replay Camera Switching (DRCS): synchronized playback of all replays and switching replay cameras in real-time. The replay systems offers variable playback speed, freeze frame, Auto-Cut: select a camera for automatic cut to live, after replay playback is finished, add replays to playlist for instant highlights creation, replay wipes: custom lead-in and lead-out animations, statistics of replay-wipes usage for monetization purposes, recording of all replays captured as separate files with audio
3G/HD-SDI output - PGM (HDMI included)	●	●	●	Supported resolutions and framerates: 720p50, 1080i50, 1080p50
Multiview output (GPU based HDMI or DP)	●	●	●	3 modes available select from: PGM / Camera Grid / PGM + Camera Grid combined
USB audio card support (external audio mixer)	●	●	●	External audio mixer as a source support
Media playback	●	●	●	Playback, Preview, Add to Playlist, Mute, Loop, Virtual in/out points trim
Playlists media management system	●	●	●	Creation of virtual playlists of media files to assemle blocks of content to be used in PGM with playback, loop, audio mute, automatic pause / continue functionality when switched
Real time camera preview, media, graphics	6	4	2	Preview of all camera channels + all media files and graphics
Switching - Mixing - PIP and Split layouts	●	●	●	Cut, Autocut, Crossfade, Transition wipes (9), PIP and SPLIT SCREEN templates (9) editable
Automated Scene manager, Show automation	●	●	●	Allows users to pre-program and time all operations needed for the entire broadcast in advance to create automated production workflows. In live production a single operator can instantly trigger complex visual compositions and control the execution of sophisticated broadcasting timelines with minimal effort
Graphics DSK - unlimited	●	●	●	4 DSK layers with transparency: 1. CG - Character Generator	2. OVERLAYS - flv, mov, png	3. LOGO (Bug) - flv, mov, png	4. INGEST - External graphics ingest over NDI
Internal CG with templates	●	●	●	Creation of editable live graphics - lower 3rds, titles, crawls or timers with dynamic data controls based on supplied templates or user graphics
NDI PGM Recording	●	●	●	720p50, 1080p25, 1080p50 - identical to NDI Output setting
PGM stream recording	●	●	●	Up to 1080p50 @ up to 10Mbps - identical to Live Streaming setting
ISO recording of camera inputs	6	4	2	Internal file recording of camera input singnals at incoming parameters
Live Streaming	●	●	●	Up to 1080p50 @ up to 10Mbps / RTMP/S or TS (H.264 + AAC)
Simulcasting	●	●	●	Streaming to up to 5 simultaneous destinations
Audio Mixer	●	●	●	Integrated, full featured audio mixer with monitoring, audio follow video, muting, solo, peaking, stereo lock/unlock, audio delay setup
Supported Media Playback Formats	●	●	●	.mp4, .m4v, .mov, .wmv, .mpg, .mpeg, .ts, .avi, .flv
NDI PTZ control	●	●	●	NDI PTZ camera control over NDI based on provided features availability and depending on the NDI standard
JVC Smart PTZ Control	●	●	●	JVC PTZ camera control over IP - Motion with presets, Zoom with presets, Camera Groups with presets, Tally, Auto/Manual modes, Recording, Iris, Gain, Shutter, WB, Zero Config automatic setup
JVC IP based CCU and Tally	●	●	●	JVC camcorders remote control over IP - Tally light, Recording On/Off, Auto/Manual modes, Iris, Gain, Shutter, WB settings, Zero Config automatic setup and network discovery
JVC camcorder IP input stream management	●	●	●	JVC camcorders remote control over IP - Resolution, Bitrate, IP video stream destination setup
GPIO control	●	●	●	2 customisable GPIO controls with user defined parameters to trigger external devices and/or actions
Save/Load Settings	●	●	●	Integrated save/load system settings to create various custom configurations and specify default settings for system startup
PIP/SPLIT Screen templates editor	●	●	●	Utility application to customize the provided default PIP/SPLIT Screen templates and to save/load custom configurations for the Streamstar SW
Crawl CG automated RSS 2.0 data feed	●	●	●	Support for automated RSS 2.0 data feed to create text crawls with the internal CG module
Optional Accessories	●	●	●	Streamstar dedicated, colour coded keyboard, Hardware validation license key
Form Factor			●	4RU rack
Dimensions without handles	●	●	●	(DxWxH) 457.2 x 430 x 88.1 (mm)
Packing dimensions and weight	●	●	●	(DxWxH) 600mm x 580mm x 220mm / Weight: 15kg

streamstar | NDX 800

Mastering the IP based workflow

8x IP/NDI channel, full-featured, live production and streaming studio.
Easy-to-use and flexible it offers PTZ camera control with presets and CCU
for JVC IP cameras.
It is the ideal solution for IP based live production workflows using affordable
IP / NDI|HX* cameras.

*/ NDI|HX is a registered trade mark of NewTek Inc.

streamstar | NDX 800

8-channel live production studio with PTZ control and CCU over IP

streamstar | NDX 800

FEATURE HIGHLIGHTS:

- Intuitive and easy-to-use touch screen user interface
- 8x NDI / IP stream inputs
- NDI / RTMP/S / TS output
- 3G/HD-SDI / HDMI output
- 4x Insert layers - Logo / Overlay / CG / Ingest
- Cut/Crossfade/Transitions automated switching modes
- Internal CG
- External graphics with transparency over NDI
- Built-in Audio mixer
- NDI Recording - PGM
- Stream recording
- Built-in encoder for Live streaming
- Media player
- Playlists with automated pause/continue features
- NDI PTZ control
- JVC camcorder IP based CCU and Tally
- JVC smart PTZ control

- JVC camcorder IP input stream management
- AutoCut - automatic camera switching after media playout
- GPIO control (X-keys)
- GPIO tally (X-keys)
- Automated Scenes manager – Show automation
- Graphics Ingest On/Off Automation
- Media editing/trimming with IN/OUT points
- PIP and SPLIT Screen layouts
- True 4:4:4:4 ARGB video processing
- Popular streaming platforms integration
- Simulcasting
- CG sequence automation
- Save/Load system setting and custom defaults
- CG projects export/import
- PIP and SPLIT Screen Templates editor
- Customizable keyboard shortcut
- Local PC time display option in Time/Score C
- RSS 2.0 automated Crawl CG data feed

Streamstar NDX 800 Technical Specifications

FEATURES	NDX 800	DESCRIPTION
Total live camera inputs - vision mixer	8	Vision mixer SW GUI features live camera preview monitors that function as switches for touch-screen switching operation
NDI Input	8	Supported resolutions and framerates: 720p25, 720p50, 1080p25, 1080i50, 1080p50 (NDI HX*)
IP Stream Input	8	720p25, 720p50, 1080p25, 1080p50 in H264+AAC, 10 Mbps max bitrate per input, supported protocols: RTSP, MPEG-TS, UDP, RTMP PULL, HLS PULL
External graphics input with transparency over NDI	1	Supported resolutions and framerates: 720p25, 720p50, 1080p25, 1080p50
NDI output - PGM	1	Supported resolutions and framerates: 720p50, 1080p25, 1080p50
3G/HD-SDI output - PGM (HDMI included)	●	Supported resolutions and framerates : 720p50, 1080i50, 1080p50
USB audio card support (external audio mixer)	●	External audio mixer as a source support
Media playback	●	Playback, Preview, Add to Playlist, Mute, Loop, Virtual in/out points trim
Playlists media management system	●	Creation of virtual playlists of media files to assemle blocks of content to be used in PGM with playback, loop, audio mute, automatic pause / continue functionality when switched
Real time camera preview, media, graphics	8	Preview of all camera channels + all media files and graphics
Switching - Mixing - PIP and Split layouts	●	Cut, Autocut, Crossfade, Transition wipes (9), PIP and SPLIT SCREEN templates (9) editable
Automated Scene manager, Show automation	●	Allows users to pre-program and time all operations needed for the entire broadcast in advance to create automated production workflows. In live production a single operator can instantly trigger complex visual compositions and control the execution of sophisticated broadcasting timelines with minimal effort
Graphics DSK - unlimited	●	4 DSK layers with transparency: 1. CG - Character Generator	2. OVERLAYS - flv, mov, png	3. LOGO (Bug) - flv, mov, png	4. INGEST - External graphics ingest over NDI
Internal CG with templates	●	Creation of editable live graphics - lower 3rds, titles, crawls or timers with dynamic data controls based on supplied templates or user graphics
NDI PGM Recording	●	720p50, 1080p25, 1080p50 - identical to NDI Output setting
PGM stream recording	●	Up to 1080p50 @ up to 10Mbps - identical to Live Streaming setting
Live Streaming	●	Up to 1080p50 @ up to 10Mbps	RTMP/S or TS (H.264 + AAC)
Simulcasting	●	Streaming to up to 5 simultaneous destinations
Audio Mixer	●	Integrated, full featured audio mixer with monitoring, audio follow video, muting, solo, peaking, stereo lock/unlock, audio delay setup
Supported Media Playback Formats	●	.mp4, .m4v, .mov, .wmv, .mpg, .mpeg, .ts, .avi, .flv
NDI PTZ control	●	NDI PTZ camera control over NDI based on provided features availability and depending on the NDI standard
JVC Smart PTZ Control	●	JVC PTZ camera control over IP - Motion with presets, Zoom with presets, Camera Groups with presets, Tally, Auto/Manual modes, Recording, Iris, Gain, Shutter, WB, Zero Config automatic setup
JVC IP based CCU and Tally	●	JVC camcorders remote control over IP - Tally light, Recording On/Off, Auto/Manual modes, Iris, Gain, Shutter, WB settings, Zero Config
JVC camcorder IP input stream management	●	JVC camcorders remote control over IP - Resolution, Bitrate, IP video stream destination setup
GPIO control	●	2 customisable GPIO controls with user defined parameters to trigger external devices and/or actions
Save/Load Settings	●	Integrated save/load system settings to create various custom configurations and specify default settings for system startup
PIP/SPLIT Screen templates editor	●	Utility application to customize the provided default PIP/SPLIT Screen templates and to save/load custom configurations for the Streamstar SW
Crawl CG automated RSS 2.0 data feed	●	Support for automated RSS 2.0 data feed to create text crawls with the internal CG module
Optional Accessories	●	Streamstar dedicated, colour coded keyboard, Hardware validation license key
Form Factor	●	2RU rack
Dimensions without handles	●	(DxWxH) 457.2 x 430 x 88.1 (mm)
Packing dimensions and weight	●	(DxWxH) 600mm x 580mm x 220mm / Weight: 15kg

streamstar®