

IP Video Wall Management and Control



PRODUCT DESCRIPTION

ICUE-GRID is an IP Video Wall Presenter for multiple content sources within the video wall. It allows complete on-the-fly control over the visualised live and/or on-demand content in any resolution. ICUE-GRID is meant for situations where a flexible, responsive multiview layout is required. By using IP video signals and a distributed processing approach, ICUE-GRID is infinitely adjustable in size, resolution, streams and positioning.

Simply select the required video sources and drag & drop them onto the ICUE-GRID layout. Presets will help to use stored settings to switch from one lay-out to the next. Adding a new source anywhere on the screen is a piece of cake.

Ideal for Control Rooms, Simulators, Retail, Sports & Events, Hospitality & Presentation, Corporate Communications, Education, Finance and Broadcast.

KEY FEATURES

- No physical limitation in the number of displays, resolution or video windows
- No complex video and audio cabling - only one cat-5 network cable per monitor
- No central A/V router - the network is the switch and the signal distributor
- Multiple monitors in multiple rooms
- Uses standard video streams - e.g. DVB/IPTV and IP cameras
- High quality text, logo and ticker
- H.264 and MPEG-2 over multicast and unicast
- Support for NewTek's NDI™ Network Device Interface for low latency contribution
- Drag & drop your SD, HD or 4K source in multiple simultaneous windows in any size and combination
- Display live and on-demand videos
- Standard and creative or artistic video wall lay-outs
- Distributed processing with no single point of failure
- Browser based management
- Compatible with all Teracue IPTV streams
- Green IT - save on power and airconditioning

HOW TO USE IT

The advanced technology in ICUE- GRID uses only IP for signal distribution and does not require a central video-wall processor.

Every single display has its own videowall processing unit, embedded or mounted at the back.

The integrated bezel correction enables the use of any display independent of bezel width.

The ICUE-GRID processor is capable of decoding multiple 4K and HD streams, displaying these at every position and in every resolution on the screen.

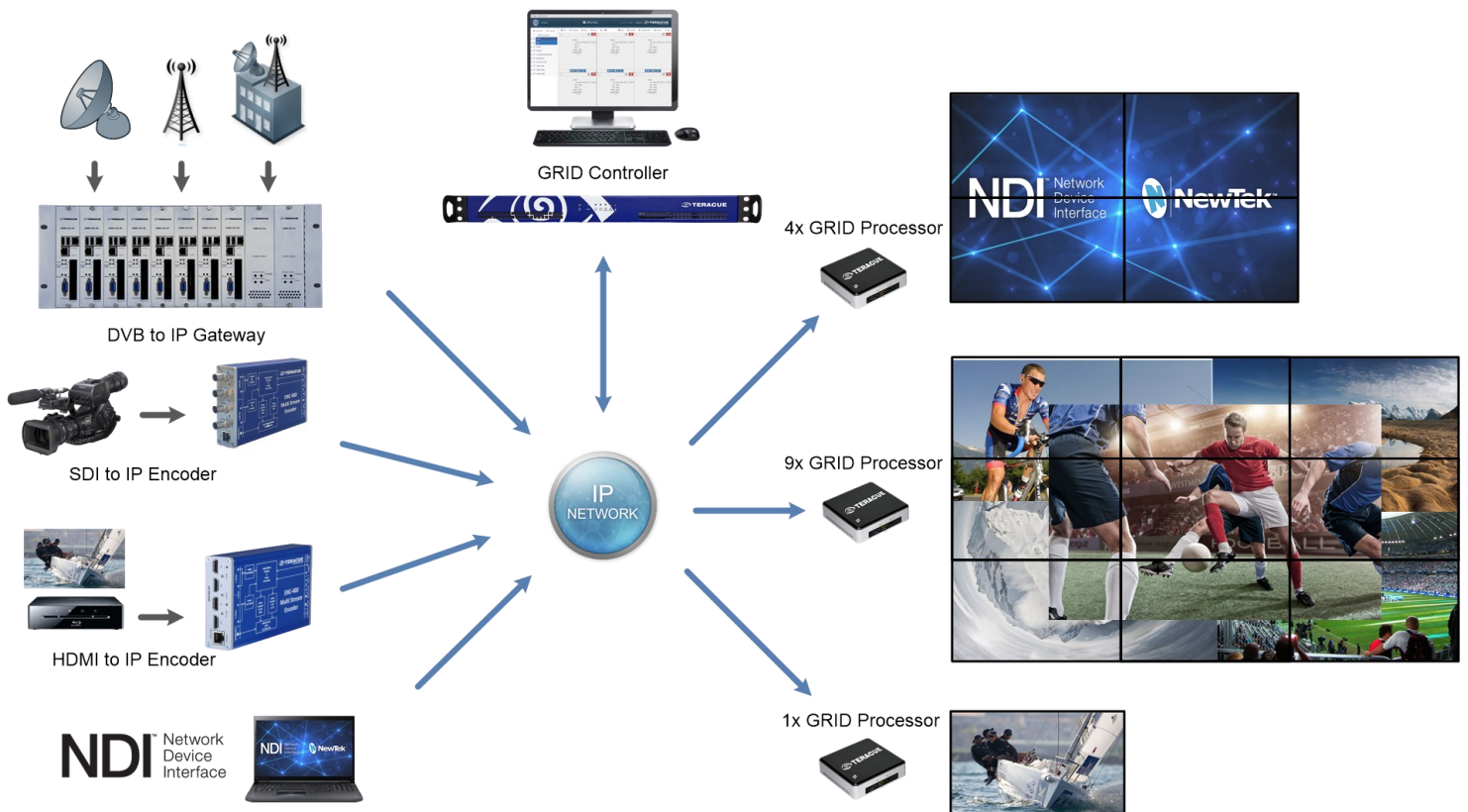
Produce your live productions and shows with NewTek's NDI™ technology and your network can accommodate multiple simultaneous, high-quality, ultra-low latency video streams. You can link your video mixer, camera and

Web based system management and configuration is done on the separate ICUE-GRID controller.

The videowall is scalable and has no physical limitation in the number of displays, resolution or video windows. Increasing the size of the wall or expanding the number of visualisation screens is just a matter of adding screens with an ICUE-GRID processor and plug it into the network.

There is no physical limitation: 3x3, 4x4, 2x20,...even creative designs with different screen sizes in any combination. Almost anything goes.

For example: Simultaneously 81 HD or 36 4K streams can be displayed on a 3x3 videowall.



In addition, Teracue's iCue Recording & Media server will add live stream recording and on-demand streaming or scheduled playout. Adding Teracue's MC-ROUTE IP Video matrix to the ICUE-GRID will enable the quick ingest of live streams from network cameras or the Internet in almost any format.

ICUE-GRID upgrades existing video walls of any brand to a much more powerful IP video wall. It protects existing investments whilst increasing benefits. ICUE-GRID is very easy and intuitive to operate and will help to control your video communication.

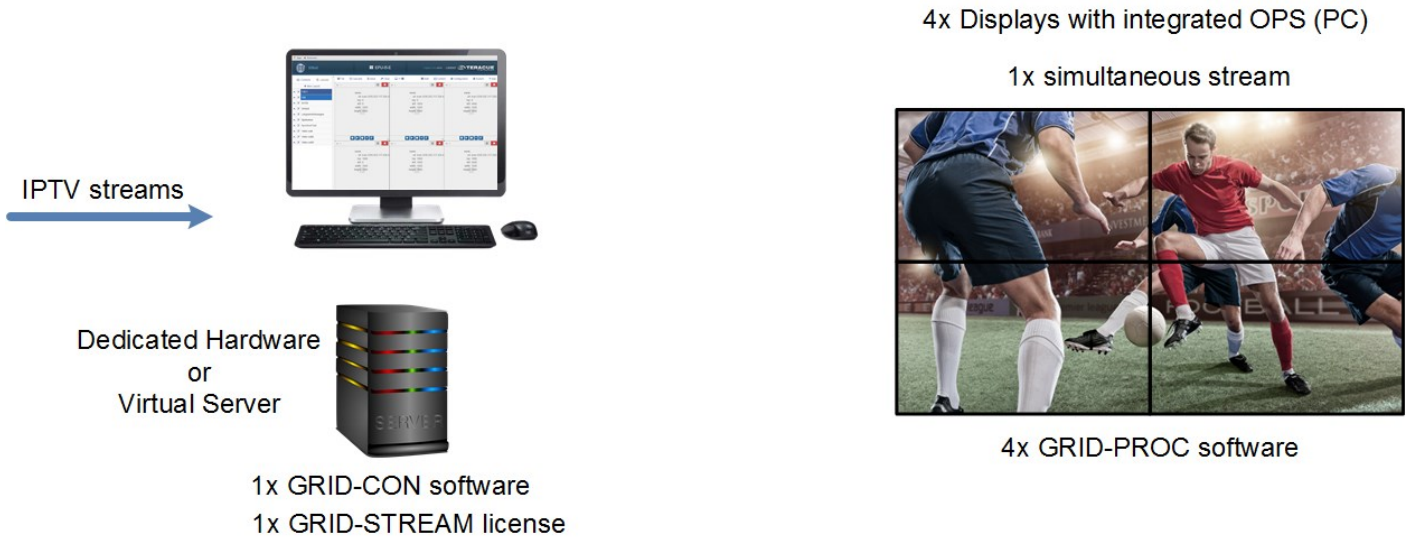
ICUE-GRID is available as a complete hardware and software solution from Teracue.

Customers can also use their own hardware for both, the Video Wall Controller and the distributed ICUE-GRID processor. Displays with an integrated PC (OPS) and WIN OS are an ideal platform for ICUE-GRID.

CONFIGURATION SAMPLES

1 x Stream (Software only):

ICUE-GRID for 1 simultaneous stream and 4 displays with a virtual server or a dedicated hardware for the Video Wall Controller. The displays have an integrated PC (OPS) for the ICUE-GRID processor. The Video Wall uses already available IPTV streams from the network.



1 x Stream:

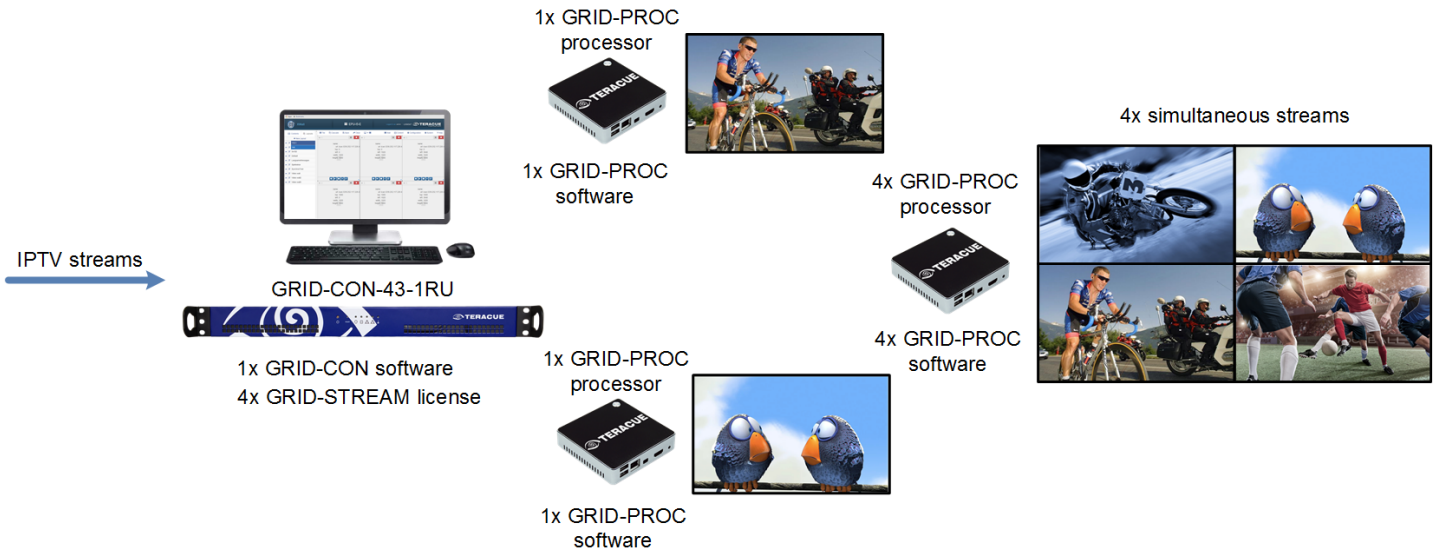
ICUE-GRID for 1 simultaneous stream and 4 displays with Teracue hardware for the Video Wall Controller and ICUE-GRID processor. The Video Wall uses already available IPTV streams from the network.



CONFIGURATION SAMPLES

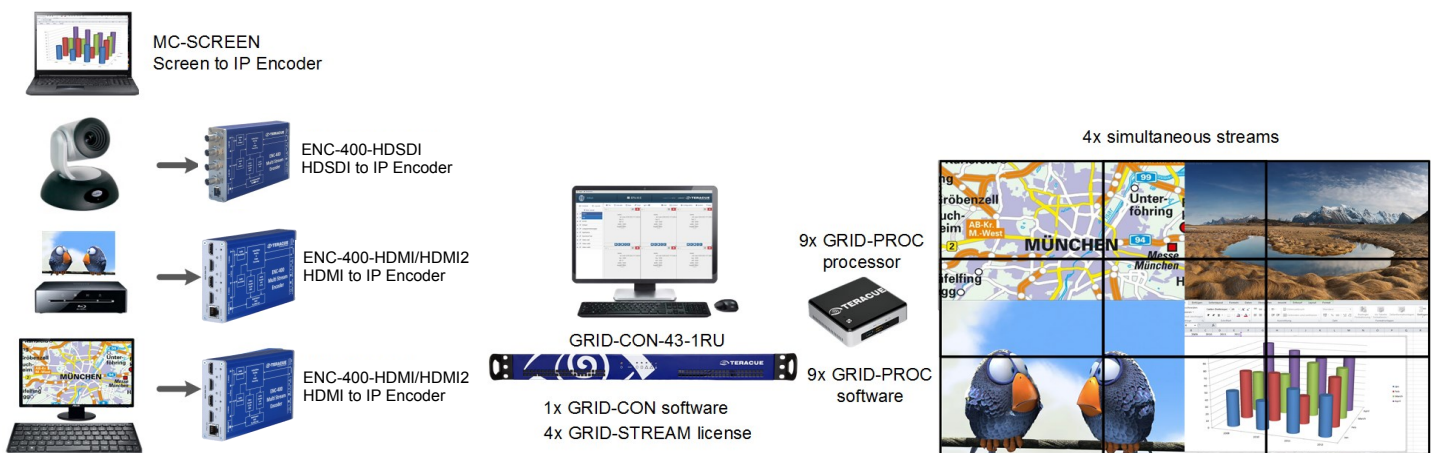
4 x Streams:

ICUE-GRID for 4 simultaneous streams and 6 displays. With Teracue hardware for the Video Wall Controller and ICUE-GRID processor. The Video Wall uses already available IPTV streams from the network.



4 x Streams:

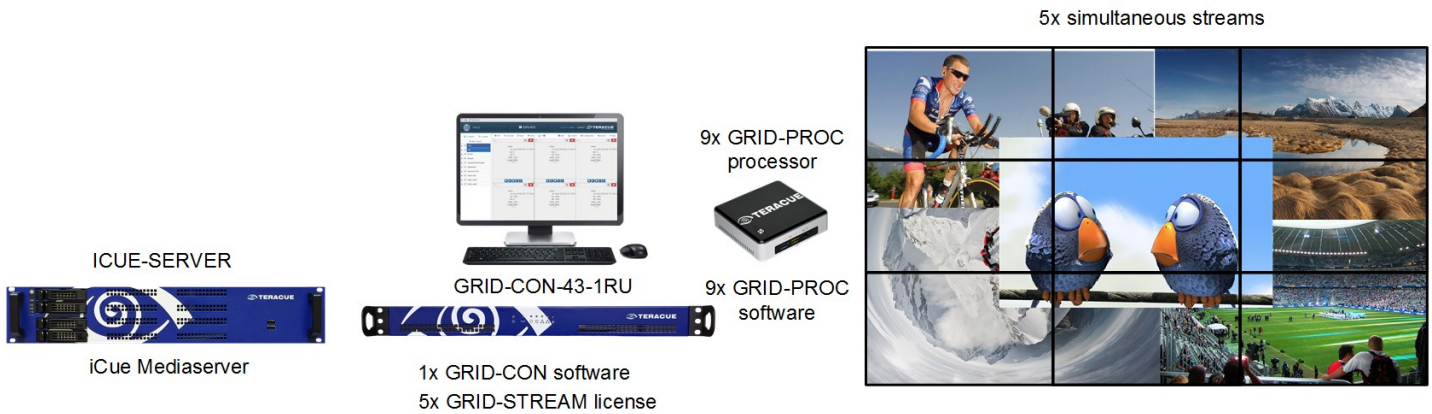
ICUE-GRID for 4 simultaneous streams and 9 displays. With Teracue hardware for the Video Wall Controller and ICUE-GRID processor. The Video Wall uses the IPTV streams from the 3 ENC-300 H.264 streaming encoders and the MC-SCREEN capture software.



CONFIGURATION SAMPLES

5 x Streams:

ICUE-GRID for 5 simultaneous streams and 9 screens with Teracue hardware for the Video Wall Controller and ICUE-GRID processor. The Video Wall uses up to 32 scheduled IPTV streams (9 simultaneous) from the ICUE-SERVER Mediaserver.





9 x Streams:

ICUE-GRID for 9 simultaneous streams and 9 screens with Teracue hardware for the Video Wall Controller and ICUE-GRID processor. The Video Wall uses up to 64 IPTV streams (9 simultaneous) from the 2 DMM-220 DVB to IP Gateways.





TECHNICAL SPECIFICATION:

ICUE-GRID Controller General:	GRID-CON-65	GRID-CON-43-1RU
		
Software:	Windows OS with ICUE-GRID Controller software	
Processor:	Intel Core i5 CPU	Intel Core i3 Processor
Memory:	4 GB DDR3	
Storage:	64 GB SSD	128 GB SSD
DisplayPort / VGA:	1x Mini DP 1.2 up to 3840 x 2160 @ 60 Hz	1x VGA
HDMI:	1x HDMI 1.4a up to 3840 x 2160 @ 30 Hz or 1920 x 1200 @ 60Hz	-
Network:	1x 10/100/1G Ethernet, RJ45	2x 10/100/1G Ethernet, RJ45
Digital Audio:	Embedded HDMI and DisplayPort	-
Analog Audio:	1x Stereo, unbalanced, via mini-jack 3.5	-
Peripheral:	4x USB 3.0 port	2x USB 2.0 und 2x USB 3.0 port
Dimensions:	115 mm x 111 m x 50 mm	1RU, 437 x 369 x 43 mm (W x D x H)
Weight:	966 g	6600 g
Power adapter:	19 V, 65 W AC-DC adapter, Multi-country plugs (IEC types A/C/G/I)	100-240V, 50/50 Hz, 600 W AC adapter with plug (IEC type F)
Operating temperature:	0 to +45°C environment temperature with appropriate airflow	5 to +35°C environment temperature with appropriate airflow
Air Humidity:	The operating and non-operating environment must avoid condensing humidity.	8% - 90% operating
Agency approvals:	CE, RoHS compliant, FCC, UL	CE
Included:	VESA mount bracket, AC-DC Power adapter AC 100-240 V, 50/60 Hz, 1,5 A	-
RS232:	-	1x COM port
Limited warranty:	1 year standard limited warranty	

TECHNICAL SPECIFICATION:

GRID-PROC Comparison: Measured with a HD Monitor	MPEG-2-SD	H.264 1080@i60	1080@p60	4K@30p	4K@50p
GRID-PROC-63	12	12	9	6	2
GRID-PROC-65	16	16	11	8	4

ICUE-GRID Processor:	GRID-PROC-63	GRID-PROC-65
		
Software:	Windows OS with ICUE-GRID Processor software	
Processor:	Intel Core i3 CPU	Intel Core i5 CPU
GPU:	HD 520	Iris™ 540
Memory:	4 GB DDR3	
Storage:	64 GB SSD	
DisplayPort:	1x Mini DP 1.2 up to 3840 x 2160 @ 60 Hz	
HDMI:	1x Mini HDMI 1.4a up to 3840 x 2160 @ 30 Hz or 1920 x 1200 @ 60Hz	
Network:	10/100/1G Ethernet, RJ45	
Digital Audio:	Embedded HDMI and DisplayPort	
Analog Audio:	1x Stereo, unbalanced, via mini-jack 3.5	
Peripheral:	4x USB 3.0 port	
Dimensions:	115 mm x 111 m x 33 mm	115 mm x 111 m x 50 mm
Weight:	960 g	970 g
Power adapter:	19 V, 65 W AC-DC adapter, Multi-country plugs (IEC types A/C/G/I)	
Operating temperature:	0 to +45°C environment temperature with appropriate airflow	
Air Humidity:	The operating and non-operating environment must avoid condensing humidity	
Agency approvals:	CE, RoHS compliant, FCC, UL	
Included:	AC-DC Power adapter AC 100-240 V, 50/60 Hz, 1,5 A	
	VESA mount bracket	
Limited warranty:	1 year standard limited warranty	

ORDER INFORMATION:

GRID-CON-65	ICUE-GRID compact Video Wall Controller with preinstalled GRID-CON software. Requires GRID-CON and GRID-STREAM license.
GRID-CON-43-1RU	ICUE-GRID 1RU Video Wall Controller with preinstalled GRID-CON software. Requires GRID-CON and GRID-STREAM license.
GRID-PROC-63	ICUE-GRID processor for up to 9 HD streams. Includes preinstalled GRID-PROC software. Requires GRID-PROC license.
GRID-PROC-65	ICUE-GRID processor for up to 11 HD streams. Includes preinstalled GRID-PROC software. Requires GRID-PROC license.
GRID-CON	License for GRID-CON software. Requires GRID-CON-SWMAIN for first 12 month of installation.
GRID-PROC	GRID-PROC processor license per active GRID processor. Requires GRID-PROC-SWMAIN for first 12 month of installation.
GRID-STREAM	GRID-STREAM license per simultaneous visible Stream. Requires GRID-STREAM-SWMAIN for first 12 month of installation.
GRID-CON-SWMAIN	Annual software maintenance for ICUE-GRID-CON. Free upgrades, same version number and eMail support.
GRID-PROC-SWMAIN	Annual software maintenance for ICUE-GRID-PROC. Free upgrades, same version number and eMail support.
GRID-STREAM-SWMAIN	Annual software maintenance for ICUE-GRID-STREAM. Free upgrades, same version number and eMail support.
GRID-CON-65-WE	One year warranty extension for a maximum of 5 years.
GRID-CON-43-1RU-WE	One year warranty extension for a maximum of 5 years.
GRID-PROC-63-WE	One year warranty extension for a maximum of 5 years.
GRID-PROC-65-WE	One year warranty extension for a maximum of 5 years.

COMPLEMENTARY PRODUCTS:

ENC-400-HDMI/HDMI2	H.264 and MJPEG HD/SD encoder board with single/dual HDMI input, loop through outputs and USB recording.
ENC-400-HDSDI	H.264 and MJPEG HD/SD encoder board with dual HDSDI input, loop through outputs and USB recording.
ENC-500-HDMI	H.265 and H.264 HD/SD portable encoder device with HDMI input,
MC-SCREEN	H.264 Desktop encoding
DMM-Series	DVB to IP Gateways for IPTV
DXP-380D-Series	
ICUE-Series	IPTV Media streaming server series
MC-ROUTE	IPTV Stream Router