



Pyramix
DIGITAL AUDIO WORKSTATION

**Supported
Controllers**

Supported Controllers Table



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Pyramix Virtual Studio supports controllers from many different manufacturers, as seen in the table below, in several control modes. While JL Cooper products work with a proprietary protocol, Yamaha, Radikal Technologies, and Mackie units need to be set to HUI mode to communicate with Pyramix. Finally the Sony DMX-R100 communicates via standard MIDI control and Sony 9-pin P-2 protocol commands.

Wherever auto-mapping is supported, our controller driver will automatically link active Pyramix parameters to all available control surface items. With manual mapping, a drag & drop or menu dialog, depending on the driver, will allow for any specific Pyramix parameter to be linked to any available control surface item.

Strip cloning will duplicate all parameter assignment for a dedicated strip to adjacent channel(s). Finally, MIDI mapping will create links between Pyramix parameters and control surface items with a select and learn method.

Manufacturer	Supported Protocol	Key 1	Key 2	Supported Model	Controlled Items in Pyramix	Mapping	Supported Since
Studer	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	Vista serie	Mixer + Transport + Editor	Auto + XML	6.2 SP2
Yamaha	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	DM2000 / DM1000	Mixer + Transport + Editor	Auto + XML	5.0 SP2
Yamaha	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	02Rv2 / 02R96 / 02R96v2	Mixer + Transport + Editor	Auto + XML	5.0 SP2
Yamaha	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	01V96	Mixer + Transport + Editor	Auto + XML	6.0
Tascam	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	US-2400	Mixer + Transport + Editor	Auto + XML	5.0 SP2
Tascam	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	FW-1884	Mixer + Transport + Editor	Auto + XML	5.1
Tascam	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	DM-3200	Mixer + Transport + Editor	Auto + XML	6.0 SP1
Mackie	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	Mackie Control / HUI compatible models	Mixer + Transport + Editor	Auto + XML	5.0 SP2
SSL	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	AWS-900+	Mixer + Transport + Editor	Auto + XML	5.1
Radikal Technologies	EMC (Enhanced Midi Control)	PSO-RCTR	PSO-RCT-EMC	SAC2.2 / SAC2k	Mixer + Transport + Editor	Auto + XML	5.0 SP2
JL Cooper	Proprietary / Midi	PSO-RCTR		MCS-3800 / 3000 / 3000x / Bridge	Mixer + Transport + Editor	Graphical + Cloning	< 5.0
Sea Level	Proprietary Sea-Level	PSO-RCTR	PSO-GPIO	Seal/O 4xxU serie	GPI / GPO Events	Manual	5.1
Sea Level	Proprietary SeaMax	PSO-RCTR	PSO-GPIO	SeaPort PLC16	GPI / GPO Events	Manual	5.0
Sea Level	Proprietary SeaMax	PSO-RCTR	PSO-GPIO	SeaDAC P/N 822x (except P/N 8227)	GPI / GPO Events	Manual	7.1
Sony	Generic Midi Control	PSO-RCTR		DMX-R100	Mixer	Manual Learn	< 5.0
Any	Generic Midi control	PSO-RCTR		Midi Controller	Mixer	Manual Learn	< 5.0
Any	Sony P2	PSO-RCTR		Sony 9pin / P2 Controllers	Transport	Fixed with options	< 5.0
Any	Midi Machine Control	PSO-RCTR		MMC Compatible devices	Transport	Fixed	< 5.0
Merging Technologies	OASIS ISIS	PSO-RCTR		ISIS-RC	Mixer + Transport + Editor	Auto + Manual	5.0
Merging Technologies	OASIS ISIS	PSO-RCTR		ISIS-FE	Mixer	Auto + Manual	5.0

Manufacturer	Supported Protocol	Key 1	Key 2	Supported Model	Controlled Items in Pyramix	Mapping	Supported Since
Merging Technologies	OASIS	PSO-RCTR	PSO-OAS-FIR	Ramses	Mixer + Transport + Advanced Editor	Full Auto	6.0 ≥10.0 *
Avid	OASIS / EUCON	PSO-RCTR	PSO-OAS-FIR	System 5 / MC / S5 Fusion	Mixer + Transport + Advanced Editor	Full Auto	5.0
Avid	OASIS / EUCON	PSO-RCTR	PSO-OAS-ECO	Artist : MC Control, Mix, Transport	Mixer + Transport + Advanced Editor	Full Auto	7.0
Avid	OASIS / EUCON	PSO-RCTR	PSO-OAS-BUS	S3	Mixer + Transport + Advanced Editor	Full Auto	10.0
Avid	OASIS / EUCON	PSO-RCTR	PSO-OAS-FIR	S6	Mixer + Transport + Advanced Editor	Full Auto	10.0
Smart AV	OASIS	PSO-RCTR	PSO-OAS-FIR	Smart Consoles Elite Series	Mixer + Transport + Advanced Editor	Full Auto	5.0
Smart AV	OASIS	PSO-RCTR	PSO-OAS-BUS	Tango / Tango 2	Mixer + Transport + Advanced Editor	Full Auto	6.1 ≥10.0 **
Harrison-GW	OASIS	PSO-RCTR	PSO-OAS-FIR	“IKIS Direct” compatible consoles	Mixer + Transport + Advanced Editor	Full Auto	5.0
AMS-Neve	OASIS	PSO-RCTR	PSO-OAS-FIR	“Encore Plus” compatible consoles	Mixer + Transport + Advanced Editor	Full Auto	5.0
Stagetech	OASIS	PSO-RCTR	PSO-OAS-FIR	Aurus	Mixer + Transport + Advanced Editor	Full Auto	9.0

* New v10 buses are not supported. Legacy busses are still working.

** New v10 buses are supported but cannot be mixed with legacy buses.

OASIS Protocol **2**



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OASIS is a generic TCP/IP based protocol for integrating disparate digital audio consoles and controllers with Merging's Pyramix digital audio workstation. Although Pyramix supports several other protocols OASIS is in a different league.

The Oasis Advantage

- Allows control surface mapping to faders, rotary encoders, keys, machine control functions etc.
- TCP/IP Network based
- High bandwidth
- Flexible connectivity from any unit to any other unit on a LAN/WAN
- Low delay transmission performance (provided there is adequate Network topology.)
- No additional hardware needed for a console/controller that has an Ethernet (IEEE 802.3) connection.
- Low cost and upgradeability of the Ethernet technologies

Overview of Pyramix Controls

Mixing:

The virtual Pyramix mixing console is fully exported over OASIS with a high degree of control precision and advanced automation functions.

Editing:

Everything that is available in the Pyramix menu is remote controllable

Machine Transport Control:

Internal Pyramix machine control and all connected machines (Sony P2, MMC) can be remote controlled over OASIS in a unified protocol.

Monitoring:

All the common monitoring functions are exported including External return and Talkback.

Multiple DAW Control:

- The virtual mixer power can be distributed on multiple mix engines
- The number of available Play/Record tracks may be expanded seamlessly without limits over any number of Pyramix engines

Export of useful information to the console:

- Unit of parameters (% , dB, ms...)
- The range of each specific control
- The default value of controls

- Mixer strips/bus names
- Automation capabilities
- Floating point number based (32 bits)
- Possibility of choosing between the DAW and/or the Console Automation engine

OASIS In Practice

OASIS allows:

- 384 channel I/O multi-track player/recorder and dubber (Pyramix V6.1)
- Access to all the editing and processing functionality of Pyramix
- The internal mixer can be configured as a 384 input into several buses types.
- Up to 16 surround simultaneous stems can be sent to the console as part of the main mix.
- Multi-layer mixing - switch between the DAW mixing layer and the main mix on the console retaining discrete control over pre-mixed channels.
- With two or three Pyramix systems connected, as in a film dubbing environment, this allows for virtual, non-destructive, pre-mixes and any changes to the pre-mix can be made instantly simply by switching to the relevant layer.

Comparison with MIDI based Solutions

- MIDI vs. Ethernet... No comment!
- Peak-meter refresh rates of 25-30 times per seconds
- Pyramix evolution will allow the protocol to develop still further.
- All VST third party plug-ins are fully described and parameters are exported over OASIS.

