AMX 4K60 Scaler

4K60 4:4:4 single input/output configurable scaler
SCL-1 (FG1015-100)

Front

Rear

Overview
The AMX SCL-1 4K60 Scaler is a small-format scaler that adjusts the output to match the optimal resolution of the display. The scaler includes a single input and a single output, with a size small enough to be mounted behind a display. It was designed to be used in combination with products such as the local HDMI outputs on the AMX Precis 8x8 that do not have built-in scaling. This offers a more flexible, lower cost solution for installations where scaling is needed only on certain outputs.

The scaler is compatible with 4K60 4:4:4 resolutions and HDCP 2.2, offering support for the latest source devices and displays. Because the scaler includes automatic scaling, the device can be configured to automatically scale to the optimal resolution of the display based on its EDID. It can be set to always scale to a particular resolution.

Common Applications
Ideal for a variety of applications where there is no video scaling built into the switcher.

Features
- **4K60 4:4:4 and HDCP 2.2 Support –** Both 4K60 and non-4K content is supported
- **Single Input/Output –** Can be used in combination with products such as presentation switchers which do not have resolution support to match displays.
- **Automatic Scaling Option –** Can be configured to automatically scale to the optimal resolution of the display based on its EDID, or it can be set to always scale to a particular resolution

Specifications – Subject to Change

General	
Dimensions	5.91 in (15.01 cm) depth 4.33" (11 cm) width .98" (25 mm) height
Weight	Approx. 1.1 lb (0.50 kg)
Shipping Weight	Approx. 2.2 lb (1.00 kg)
Mounting Options	Includes V-Style surface mount brackets
MTBF	TBD
Airflow	Convection (openings on sides of case)
Approvals: Regulatory Compliance	CE, FCC, NRTL, RoHS, WEEE
Included Accessories	1x 3P-3.5MM Phoenix Connectors 1x 12V/2A Power Adapter 1x US exchangeable adapters 1x EU exchangeable adapters 1x UK exchangeable adapters 2x mounting ear 4x M2.5 screw (for mounting ears)

Power Supply	
External, Included	12 VDC 2A Max Output; 100-240V 50/60Hz AC Input

Active Power Requirements	
Voltage, DC (Typical)	12 VDC
Power Consumption	8w
Power Connector	Screw down locking power connector

Environmental	
Temperature (Operating)	32° F to 122° F (0° C to 50° C)
Temperature (Storage)	14° to 140° F (-10° to 60° C)
Humidity (Operating)	10% to 90% RH (non-condensing)
Humidity (Storage)	10% to 90% RH (non-condensing)
Thermal Dissipation	27 BTU/hr

Front Connectors	
HDMI Input	(1) HDMI Type A female connector
HDMI Output	(1) HDMI Type A female connector

Back Connectors	
DC Power	(2) Screw Down Locking Power Connector
Serial	(3) 3 Position 3.5mm Pluggable Phoenix Terminal Block Bidirectional RS-232 Standard NetLinx Baud rate 1200-115k Parity support Odd/Even/None
*HDMI Input	(4) HDMI Type A Female
Program Port	(5) USB Type A

Controls and Indicators	
Power Indicator	Green LED, solid ON when power is applied (rear)
*Scaler Configuration	Dip switch 4 position (front)

HDMI	
Compatible Formats	HDMI , HDCP

HDMI Supported Input Resolutions	VESA
	800x600 @ 60 Hz
	1024x768 @ 60 Hz
	1280x768, @ 60 Hz
	1280x800 @ 60 Hz
	1280x960 @ 60 Hz
	1280x1024 @ 60 Hz
	1360x768 @ 60 Hz
	1366x768 @ 60 Hz
	1440x900 @ 60 Hz
	1600x900 @ 60 Hz
	1600x1200 @ 60 Hz
	1680x1050 @ 60 Hz
	1920x1200 @ 60 Hz
	2048x1152 @ 60 Hz
	3840x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz
	4096x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz
	SMPT:
	720x480 @ 59.94 Hz, 60 Hz
	720x576 p @ 50 Hz
	1280x720 p @ 50 Hz, 59.95 Hz, 60 Hz
	1920x1080 p @ 50 hz, 59.94 Hz, 60 Hz
	Established Timing
	1280 x 1024 @ 75 Hz
	1152 x 870 @ 75 Hz
	1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz
	832 x 624 @ 75 Hz
	800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz
	720 x 400 @ 70 Hz, 88 Hz
	640 x 480 @ 60 Hz, 67 Hz, 72 Hz, 75 Hz
	CEA Information Code (VIC) Formats:
	VIC = 1, 640 x 480 p 59.94/60 Hz 4:3
	VIC = 2, 720 x 480 p 59.94/60 Hz 4:3
	VIC = 3, 720 x 480 p 59.94/60 Hz 16:9
	VIC = 4, 1280 x 720 p 59.94/60 Hz 16:9
	VIC = 5, 1920 x 1080 i 59.94/60 Hz 16:9
	VIC = 6, 720(1440) x 480 i 59.94/60 Hz 4:3
	VIC = 7, 720(1440) x 480 i 59.94/60 Hz 16:9
	VIC = 14, 1440 x 480 p 59.94/60 Hz 4:3
	VIC = 15, 1440 x 480 p 59.94/60 Hz 16:9
	VIC = 16, 1920 x 1080 p 59.94/60 Hz 16:9
	VIC = 17, 720 x 576 p 50 Hz 4:3
	VIC = 18, 720 x 576 p 50 Hz 16:9
	VIC = 19, 1280 x 720 p 50 Hz 16:9
	VIC = 20, 1920 x 1080 i 50 Hz 16:9
	VIC = 21, 720(1440) x 576 i 50 Hz 4:3
	VIC = 22, 720(1440) x 576 i 50 Hz 16:9
	VIC = 29, 1440 x 576 p 50 Hz 4:3
	VIC = 30, 1440 x 576 p 50 Hz 16:9
	VIC = 30, 1440 x 576 p 50 Hz 16:9
	VIC = 31, 1920 x 1080 p 50 Hz 16:9
	VIC = 32, 1920 x 1080 p 23.97/24 Hz 16:9
	VIC = 33, 1920 x 1080 p 25 Hz 16:9
	VIC = 34, 1920 x 1080 p 29.97/30 Hz 16:9
	VIC = 39, 1920 x 1080 i 50 Hz 16:9
	VIC = 41, 1280 x 720 p 100 Hz 16:9

	VIC = 42, 720 x 576 p 100 Hz 4:3 VIC = 43, 720 x 576 p 100 Hz 16:9 VIC = 44, 720(1440) x 576 i 100 Hz 4:3 VIC = 45, 720(1440) x 576 i 100 Hz 16:9
Signal Type Support	HDMI, DisplayPort++ (input only with HDMI cable adapter
Output Signal Type	HDMI, HDCP
Output Connector	HDMI Type A Female
Output Scaling	Yes, Auto or Manual
Output Scaling Resolutions	800x600 @ 60 Hz 1280x720 p @ 50 Hz, 59.95 Hz, 60 Hz 1024x768 @ 60 Hz 1280x768, @ 60 Hz 1280x800 @ 60 Hz 1280x960 @ 60 Hz 1280x1024 @ 60 Hz 1360x768 @ 60 Hz 1366x768 @ 60 Hz 1440x900 @ 60 Hz 1600x900 @ 60 Hz 1600x1200 @ 60 Hz 1680x1050 @ 60 Hz 1920x1080 p @ 50 hz, 59.94 Hz, 60 Hz 1920x1200 @ 60 Hz 3840x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz 4096x2160 @ 24 Hz, 25Hz, 30 Hz, 60 Hz
Input Video Level	.5 - 1.2 V p-p
Data Rate (Max)	18 Gbps
Pixel Clock (Max)	Up to 600 Mhz
4K Format Support	3840x2160p@24/25/30/60 Hz, 4:4:4 4096x2160p@24/25/30/60 Hz, 4:4:4 3840x2160p@50/60 Hz, 4:2:0 4096x2160p@50/60 Hz, 4:2:0
Audio Format Support	2 CH L-PCM
HDCP Support	Yes HDCP 1.4, 2.2
CEC Support	Yes, Auto or Manual